

INSULATED ROOF PATIO COVER WITH OPEN WALLS

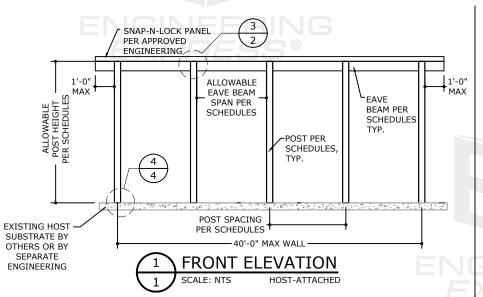
PERFORMANCE EVALUATION FREESTANDING OR HOST ATTACHED, UP TO 12' & 15' SPAN NOTE: THIS DOCUMENT IS NOT TO BE USED WITHOUT AN ORIGINAL PEN SIGNATURE & RAISED SEAL OR ELECTRONICALLY VERIFIABLE ELECTRONIC SIGNATURE MEETING ALL DISCLAIMERS SET FORTH HEREIN. RUBBED PENCIL COPIES ARE NOT PERMITTED FOR USE IN ANY WAY

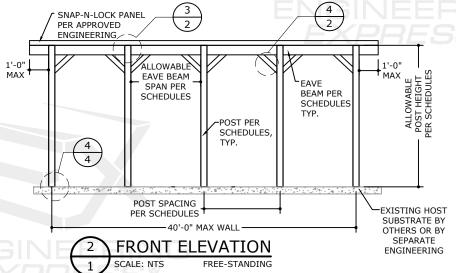
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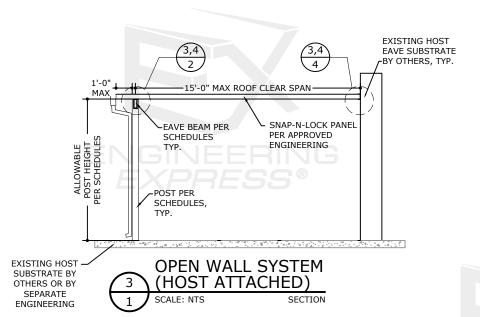
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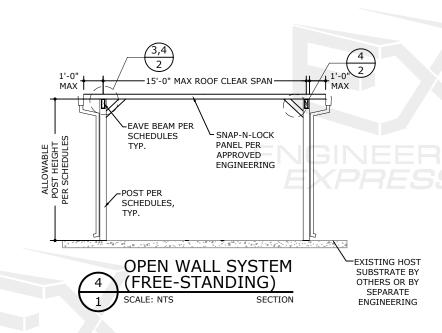
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THIS IS A NON-SITE-SPECIFIC PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION









DESIGN NOTES:

- POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH (2023) EDITION. 2012/2015/2018/2021 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 7-22 OR ASCE 7-16 BASED ON APPLICABLE CODE.
- CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY. DESIGN CRITERIA OR SPANS BEYOND STATED HEREIN MAY REQUIRE ADDITIONAL SITE SPECIFIC SEALED ENGINEERING.
- SEISMIC DESIGN SHALL BE CONSIDERED WHEN REVIEWING FOR EACH USE USING LOAD TABLE LIMITATIONS PROVIDED.
- THE EXISTING HOST STRUCTURE MUST BE CAPABLE OF SUPPORTING THE LOADED ENCLOSURE AS DETERMINED BY OTHERS OR BY SPECIAL ENGINEERING. NO WARRANTY IS
- THIS STRUCTURE SHALL REMAIN OPEN (NO SCREENS OR WALLS) WITHOUT ADDITIONAL ENGINEERING.

- STRUCTURE SHALL BE FABRICATED IN ACCORDANCE WITH ALL GOVERNING CODES. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY.
- 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

- ALUMINUM MEMBERS ANCHORS SHALL BE SPACED WITH 2xDIAMETER END DISTANCE AND 2.5xDIAMETER MIN. SPACING TO ADJACENT ANCHORS, UNLESS NOTED OTHERWISE.
- ALL CONCRETE ANCHORS SHALL BE INSTALLED TO NON-CRACKED CONCRETE ONLY.
- 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.

CONNECTIONS:

- 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.3.7.2 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**

- 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.
- 10. 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.
- ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- 12. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED

VISIT ECALC.IO/STRUCTALL

FOR ENGINEER CERTIFIED ORIGINALS & MORE INFORMATION ABOUT THIS DOCUMENT OR SCAN THIS QR CODE

VISIT ENGINEERINGEXPRESS.COM/STORE FOR ADDITIONAL PLANS, REPORTS & RESOURCES



PRINTED DOCUMENT NOTICE:

#7664

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INC.

SYSTEMS,

STRUCTALL BUILDING

INSULATED PATIO COVER OVER OPEN WALL ROOM SYSTEMS PERFORMANCE EVALUATION 350 BURBANK RD OLDSMAR, FL 34677 (813)855

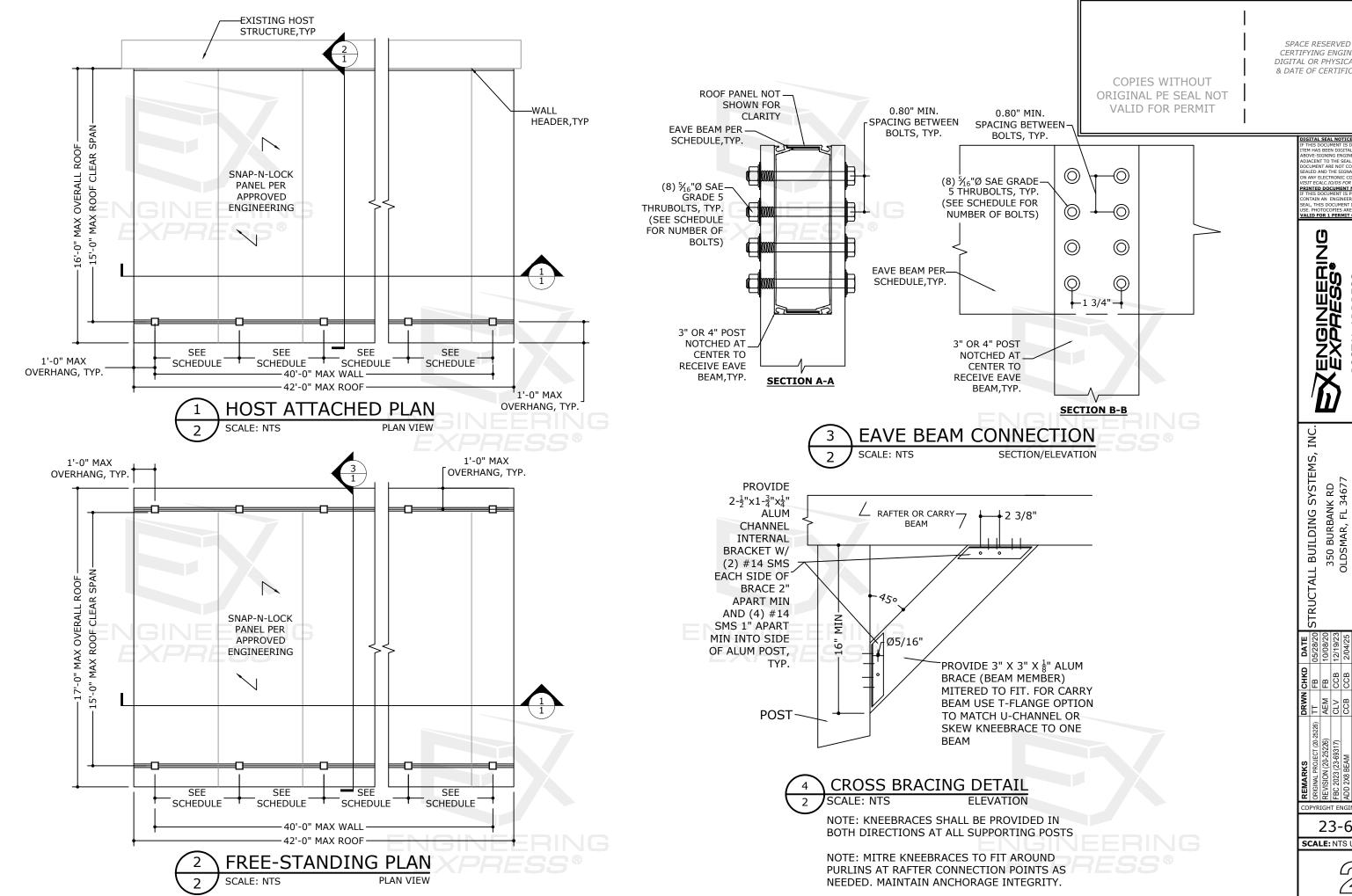
ROOF

23-69317

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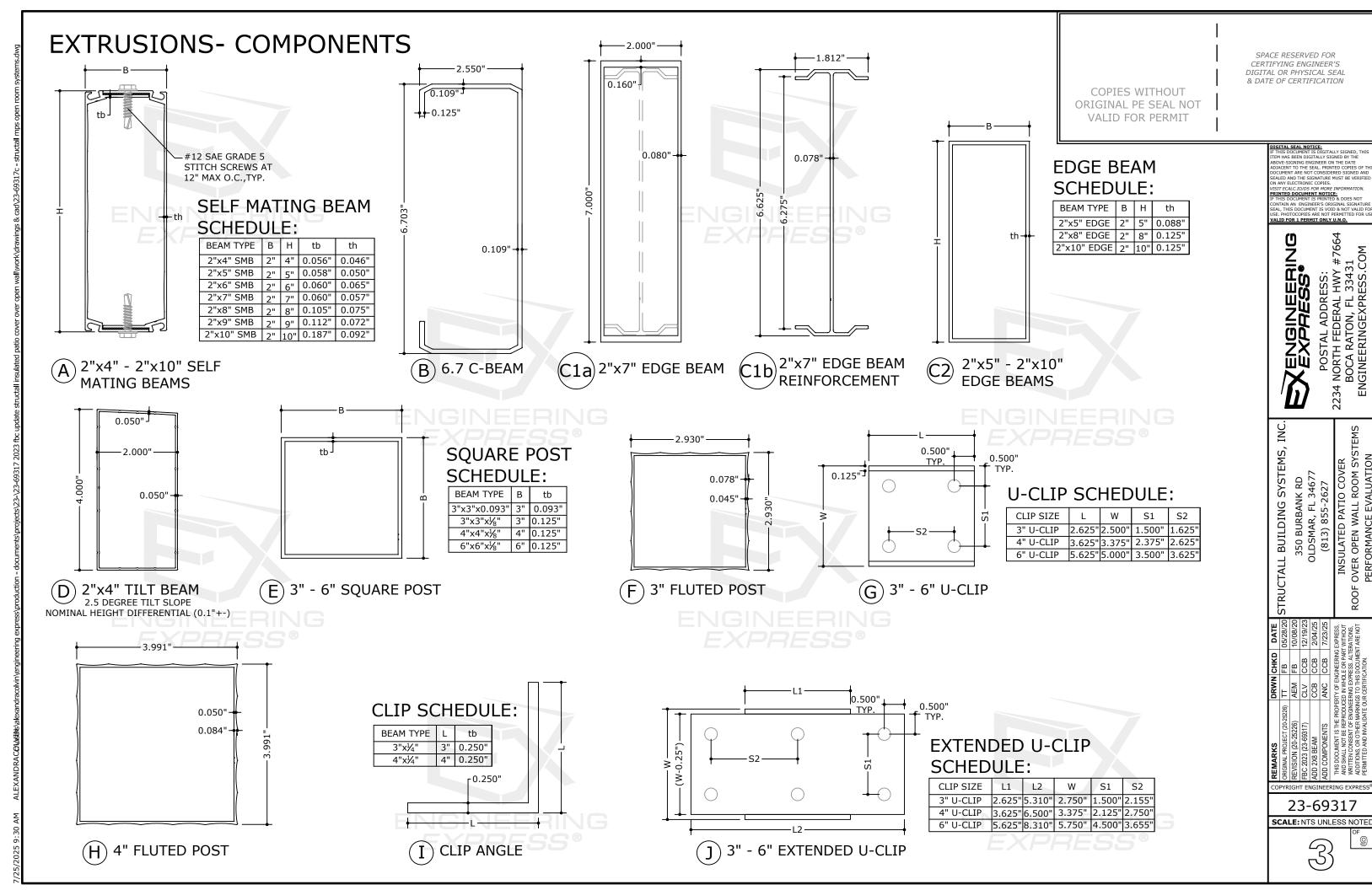
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INSULATED PATIO COVER OVER OPEN WALL ROOM SYSTEMS PERFORMANCE EVALUATION

23-69317

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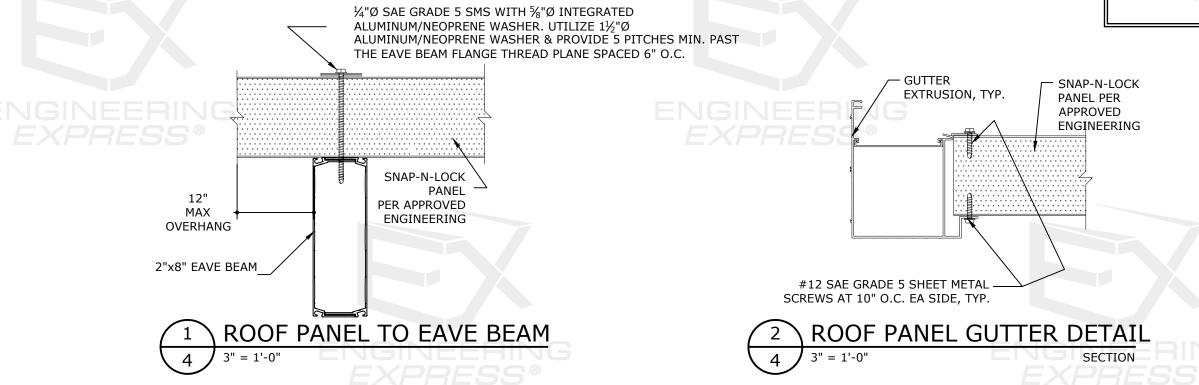


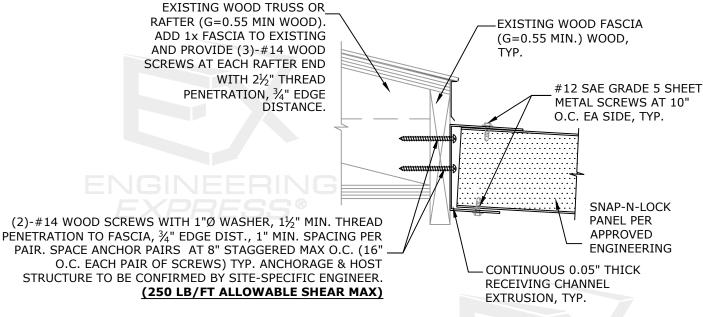


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ROOF PANEL TO WOOD HOST STRUCTURE

3" = 1'-0" **SECTION**

BLOCK (ASTM C-90 **BLOCK) HOST** STRUCTURE, TYP. 1/4"Ø ITW TAPCON MAXI-SET ANCHOR OR 1/4"Ø #12 SAE GRADE 5 SHEET DEWALT/DEWALT ULTRACON METAL SCREWS AT 10" O.C. WITH 1"Ø WASHER, 13/4" EA SIDE, TYP. EMBED TO 3KSI CONCRETE HEADER OR GROUT FILLED BLOCK, 2½" BEAM EDGE DIST., SPACED AT 6" O.C. STAGGERED (12" O.C. EA PAIR OF ANCHORS) 21/4" EMBED SNAP-N-LOCK **COMPOSITE PANEL** CONTINUOUS 0.05" THICK RECEIVING CHANNEL EXTRUSION, TYP.

> ROOF PANEL TO CONC. OR **BLOCK HOST STRUCTURE** 3" = 1'-0"

EXISTING 3KSI

CONCRETE OR HOLLOW

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ON SHEET 3

DETAIL

NOTE: U-CLIP CONNECTION

EXTRUSION MAY VARY (3" U-CLIF

SHOWN HERE FOR CLARITY)

-3" OR 4" POST PER

SCHEDULE, TYP

-EQUAL LEG

EXTRUSION

SCHEDULE, TYP.

4 1/2" TYP.

t2-

-ANCHORS PER

SCHEDULE, TYP.

TYPE PER

U-CLIP CONNECTION

5

SITE SPECIFIC REQUIREMENTS (3)-#14 SAE GRADE 5 DIRECTION OF ROOF SMS EACH SIDE OF POST CLEAR SPAN ABOVE FOR A TOTAL OF (6) SMS PER CONNECTION, TYP. ANCHORS PER SCHEDULE, TYP. SCHEDULE, TYP. CLIP TYPE PER 0 SCHEDULE, TYP. 1/5 CONNECTION REACTION CAPACITY (SUPPORTING STRUCTURE SHALL BE SEPARATELY CERTIFIED/REVIEWED TO RESIST IMPOSED LOADS BELOW) -HOST SUBSTRATE PER SCHEDULE, TYP CONCRETE WOOD T = 2500 LB AS DIMENSIONED

DIRECTION OF ROOF

CLEAR SPAN ABOVE

7" FOR 3" POSTS

8" FOR 4" POSTS

TIE-DOWN CONNECTION

4 1/2" TYP.

ALUMINUM ANGLE

 $(2)\frac{3}{8}$ " Ø SS BOLTS

WELDED STEEL BASEPLATE

ASTM A500 GRADE B

ASTM A36

STEEL PLATE

TO CALCULATE YOUR SITE-SPECIFIC UPLIFT FORCE MULTIPLY THE NET LIPLIET FORCE X TRIBLITARY AREA FOR EACH POST HOLDS DOWN. WHICH INCLUDES HALF OF THE SPAN PLUS FULL OVERHANG, CONSULT WITH A DESIGN PROFESSIONAL IF AT ALL IN QUESTION OR USE THE MOST CRITICAL DESIGN CRITERIA & STRONGEST CONNECTION

(4)-#14 SAE GRADE 5

ANGLE SECURED TO-

POST PER SCHEDULE,

SMS ÉA VERTICAL LEG OF

1" FOR 3" ANGLE

2" FOR 4" ANGLE

VARIES

PFR

SCHEDULE

HOST SUBSTRATE

SCHEDULE, TYP.

NOTE: EXTRUSION &

NUMBER OF ANGLES MAY VARY (3"x3"x1/4

ANGLE SHOWN HERI

FOR CLARITY)

WELD. SEE

TABLE FOR

SIZE F_{EXX}

= 60 KSI

HOST ATTACHED

SYSTEMS POST

SPACING >6 FT

MAX O.C.

V = 1000 IB

T = 1500 LB

V = 300 I B

U-CLIP CONNECTION DIRECTIVE:

(SEE HOST ATTACHED POST BASE SCHEDULE FOR APPLICABILITY OF

SIZE ALL FOOTINGS &

REINFORCEMENT PER

EXTRUSION TYPE	ANCHOR (QTY.)	SUBSTRATE	ANCHOR DESCRIPTION
3" - 6" U-CLIP	(4) PER TYP. CLIP; (6) PER EXTENDED CLIP	3KSI MIN. CONC.	1/4"Ø DEWALT ULTRACONS WITH ¾"Ø MIN WASHER, 1¾" EMBED, 4" EDGE DISTANCE, 1½" MIN. SPACING.
4" - 6" U-CLIP ONLY	(4) PER TYP. CLIP; (6) PER EXTENDED CLIP	WOOD (G=0.55 MIN)	1/4"Ø LAG SCREWS WITH ¾"Ø MIN WASHER, 2½" MIN. THREAD PENETRATION, ¾" EDGE DISTANCE, 1½" MIN. SPACING.

3/5 CONNECTION REACTION CAPACITY

(SUPPORTING STRUCTURE SHALL BE SEPARATELY CERTIFIED/REVIEWED TO RESIST IMPOSED LOADS BELOW)

WOOD	CONCRETE
T = 1000 LB V = 150 LB	T = 2750 LB V = 3000 LB

TO CALCULATE YOUR SITE-SPECIFIC UPLIET FORCE, MULTIPLY THE NET UPLIFT FORCE X TRIBUTARY AREA FOR EACH POST HOLDS DOWN. WHICH INCLUDES HALF OF THE SPAN PLUS FULL OVERHANG. CONSULT WITH A DESIGN PROFESSIONAL IF AT ALL IN QUESTION OR USE THE MOST CRITICAL DESIGN CRITERIA & STRONGEST CONNECTION

ALUMINUM TIE-DOWN ANGLE DIRECTIVE:

(SEE HOST ATTACHED /FREE STANDING POST BASE TIE-DOWN SCHEDULE FOR APPLICABILITY OF THESE CLIP TYPES)

EXTRUSION TYPE	ANCHOR (QTY.)	SUBSTRATE	ANCHOR DESCRIPTION		
(2)-3"x3"x¼" ANGLES	1 PER ANGLE (2 TOTAL)	3KSI MIN. CONC.	¾"Ø HILTI KWIK BOLT 3 WITH 1½"Ø WASHER, 3½" EMBED, 9" MIN. EDGE DISTANCE, 4.95" MIN SPACING FOR 3" POSTS		
(4)-3"x3"x¼" ANGLES	1 PER ANGLE (4 TOTAL)	CONC.	AND 5.95" MIN SPACING FOR 4" POSTS, TYP.		
(2)-4"x4"x½" ANGLES	1 PER ANGLE (2 TOTAL)	WOOD (G=0.55 MIN)			
(4)-4"x4"x½" ANGLES	1 PER ANGLE (4 TOTAL)		EDGE DISTANCE, 4.95" MIN. SPACING FOR 3" POSTS AND 5.95" MIN. SPACING FOR 4" POSTS, TYP.		

ALLOWED

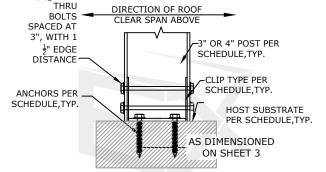
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" Ø GS HILTI KWIK BOLT 3,

SPACING, 6" MIN. EDGE DISTANCE, INTO MIN 3000 PSI CONCRETE

(2)³"Ø SS THRU DIRECTION OF ROOF **BOLTS** CLEAR SPAN ABOVE



NOTE: U-CLIP CONNECTION EXTRUSION MAY VARY (3" U-CLIP SHOWN HERE FOR CLARITY)



MAXIMUM

ON MAX. PLATE SIZE STUB POST STUB POST MINIMUM DIMENSION PLATE THICKNESS SIZE B (IN) THICKNESS WELD SIZE OF LONG A (IN) FOOTING SIDE OF SIZE D (IN CANOPY (FT) 24 12 0.375 0.125 0.125 20

.... WELDED MOMENT-RESISTING STEEL BASE PLATE, ALTERNATIVE TO POST EMBEDMENT IN CONCRETE FOOTING WHERE APPLICABLE. WELDED POST BRACKET MUST BE FABRICATED IN ACCORDANCE FBC/IBC SECTION 1704.2.5.1 BY AN APPROVED FABRICATOR TO THE SATISFACTION OF THE CODE OFFICIAL

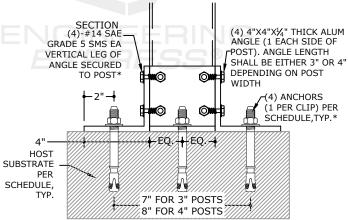
- CONNECTION CHECKED FOR PURE BENDING
- MAXIMUM DIMENSION OF LONG SIDE OF CANOPY TO COMPLY WITH MAXIMUM ALLOWABLE SPANS IN MASTER
 - ANALYSIS FOR MAXIMUM FREESTANDING CANOPY SIZE TAKING 115 MPH Vult WIND SPEED, EXPOSURE 'C', POST HEIGHT = 10 FT & BEAM DEPTH 8 IN. HOST ATTACHED CANOPY VALID UP TO 150MPH EXPOSURE 'C' ADDITIONAL ENGINEERING REQUIRED BEYOND THIS WIND LIMIT.

2/5 CONNECTION REACTION CAPACITY

(SUPPORTING STRUCTURE SHALL BE SEPARATEL CERTIFIED/REVIEWED TO RESIST IMPOSED LOADS BELOW)

WOOD	CONCRETE
	Γ = 4500 LB V = 3000 LB

TO CALCULATE YOUR SITE-SPECIFIC UPLIET FORCE MULTIPLY THE NET UPLIFT FORCE X TRIBUTARY AREA FOR EACH POST HOLDS DOWN, WHICH INCLUDES HALF OF THE SPAN PLUS FULL OVERHANG. CONSULT WITH A DESIGN PROFESSIONAL IF AT ALL IN QUESTION OR USE THE MOST CRITICAL DESIGN CRITERIA & STRONGEST CONNECTION.



ALUMINUM ANGLE TIE-DOWN CONNECTION

WASHER, 23/8" MIN. THREAD WOOD PENETRATION, 3/4" EDGE DISTANCE, G=0.55 MIN 4.95" MIN, SPACING FOR 3" POSTS AND 5.95" MIN. SPACING FOR 4"

FOR 4" POSTS, TYP.

NOTE: THIS TABLE IS APPLICABLE FOR POST INSTALLATIONS WITH POST TRIBUTARY AREAS LESS THAN OR EQUAL TO 169 SQUARE FEET

U-CLIP CONNECTION DIRECTIVE:

SUBSTRATE

3KSI MIN

(SEE HOST ATTACHED POST BASE SCHEDULE FOR APPLICABILITY OF

HESE CLIP TYPE	ES)		
EXTRUSION	ANCHOR	SUBSTRATE	ANCHOR
TYPE	(QTY.)		DESCRIPTION
3" - 6"	(2)	3KSI MIN.	$1/4$ "Ø DEWALT ULTRACONS WITH $\frac{3}{4}$ "Ø MIN WASHER, $1\frac{3}{4}$ " EMBED, 4 " EDGE DISTANCE, $1\frac{1}{2}$ " MIN. SPACING.
U-CLIP	PER CLIP	CONC.	
4" - 6" U-CLIP ONLY	(2) PER CLIP	WOOD (G=0.55 MIN)	1/4"Ø LAG SCREWS WITH ¾"Ø MIN WASHER, 2½" MIN. THREAD PENETRATION, ¾" EDGE DISTANCE, 1½" MIN. SPACING.

HOST ATTACHED SYSTEMS POST SPACING ≤6 FT MAX O.C.

4/5 CONNECTION REACTION CAPCITY

(SUPPORTING STRUCTURE SHALL BE SEPARATELY CERTIFIED/REVIEWED TO RESIST IMPOSED LOADS BELOW

WOOD	CONCRETE
T = 1250 LB / = 250 LB	T = 2000 LB V = 1000 LB

PLUS FULL OVERHANG, CONSULT WITH A DESIGN PROFESSIONAL IF AT ALL IN QUESTION OR USE THE MOST CRITICAL **DESIGN CRITERIA & STRONGEST**

TO CALCULATE YOUR SITE-SPECIFIC UPLIFT FORCE MULTIPLY THE NET UPLIET FORCE X

TRIBUTARY AREA FOR EACH POST HOLDS

DOWN. WHICH INCLUDES HALF OF THE SPAN

NOTE: FOR FREESTANDING CONFIGURATIONS INSTALLED WITH WIND VELOCITY REQUIREMENTS >= 165MPH, EXPOSURE 'C' WITH BOTH PANEL & BEAM SPANS GREATER THAN 12 FEET (OR POST TRIBUTARY AREA GREATER THAN 169 SQUARE FEET):

UTILIZE ¾" HILTI HIT-ICE+HAS ANCHORS (1½"Ø WASHER) WITH 4¾" EMBEDMENT, 7 MIN EDGE DISTANCE AND SPACED ACCORDING TO DETAIL 1/5. ATTACHMENTS OF CLIP LEGS TO POST SHALL UTILIZE (5) #14 SAE GR 5 SMS PER CLIP. THESE CONFIGURATIONS ARE APPROVED FOR INSTALLATIONS TO 3KSI CONCRETE ONLY, ALTERNATE SUBSTRATE INSTALLATIONS WITH THESE SPANS SHALL BE DESIGNED ON A SITE SPECIFIC BASIS.

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NOTE: POST MAY BE EMBEDDED IN CONCRETE 12" MIN WITH 12'

#5 BAR TO SECURE AS SHOWN. SIZE OF FOOTING & ACTUAL

APPLICATION PER SITE SPECIFIC CONDITIONS BY OTHERS.

%"Ø HILTI KWIK BOLT 3 WITH 1½"Ø

WASHER, 31/2" EMBED, 9" MIN. EDGE

DISTANCE, 4.95" MIN SPACING FOR

3" POSTS AND 5.95" MIN SPACING

3/8"Ø LAG SCREWS WITH 11/2"Ø MIN

ANCHOR

DESCRIPTION

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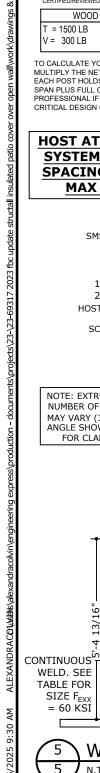
SYSTEMS,

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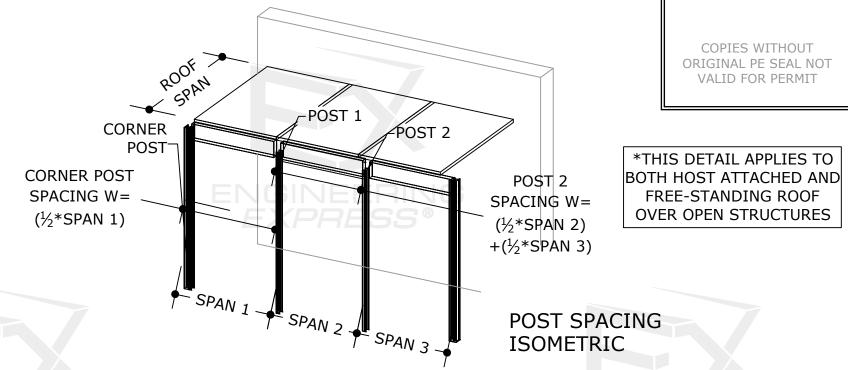




FREESTANDING SYSTEM & HOST-ATTACHED ALLOWABLE POST HEIGHT

					MAX	ІМИМ СОLU	MN SPACIN	G (FT)	
COLUMN	MAX ROOF SPAN S	ASD DESIGN LOAD	LATERAL ASD WIND LOAD	6'-0"	8'-0"	10'-0"	12'-0"	14'-0"	15'-0"
	(FT)	(PSF)	(PSF)		ALI	LOWABLE PO	OST HEIGHT	(FT)	
			20 PSF	8'-5"	4'-5"	-	-	-	-
			30 PSF	6'-10"	-	-	-	-	-
		10 PSF	40 PSF	6'-0''	-	-	-	-	-
			50 PSF	5'-4"	-	-	-	-	-
			20 PSF) -	-	-	-	-	-
			30 PSF	/ - \	-	-	-	-	-
		20 PSF	40 PSF	-	-	-	-	-	-
			50 PSF	-	-	-	-	-	-
	12 '-0 "		20 PSF	-	-	-	-	-	-
		LCDIN	30 PSF	318		-	-	-	-
	ED	30 PSF	40 PSF	-1 -11		_	-	-	-
¥			50 PSF		R) -	-	-	-	-
3"x3" Fluted Post (Unbraced) 10ft			20 PSF		-	-	-	-	-
P Ce			30 PSF	-	-	-	-	-	-
bra		40 PSF	40 PSF	-	-	-	-	-	-
5			50 PSF	-	-	-	-	-	-
ost			20 PSF	6'-4''	-	-	-	-	-
<u> </u>			30 PSF	5'-2"	-	-	-	-	-
ŧ		10 PSF	40 PSF	4'-6''	-	-	-	-	-
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		20 PSF	40 PSF	-	-	-	-	-	-
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					MAXI	мим соци	MN SPACIN	G (FT)		
COLUMN TYPE	MAX ROOF SPAN S	GRAVITY/UPLIFT ASD DESIGN LOAD	LATERAL ASD WIND LOAD	6'-0"	8'-0"	10'-0"	12'-0"	14'-0"	15'-0"	
=	(FT)	(PSF)	(PSF)	ALLOWABLE POST HEIGHT (FT)						
		10.055	20 PSF	10'-0"	10'-0''	10'-0''	7'-11''	5'-4''	4'-3''	
			30 PSF	10'-0''	10'-0''	9'-0''	6'-5''	4'-4''	-	
		10 PSF	40 PSF	10'-0"	10'-0''	7'-9''	5'-7''	-	-	
			50 PSF	10'-0"	9'-5''	7'-0''	5'-0''	-	-	
			20 PSF	10'-0"	4'-5"	-	-	-	-	
		20 PSF	30 PSF	9'-1"	-	-	-	-	-	
		20 P3F	40 PSF	7'-11''	-	-	-	-	-	
	12 '-0 "		50 PSF	7'-1"	-	-	-	-	-	
	12 -0		20 PSF	71N		-	-	-	-	
		30 pcr	30 PSF	-		-	-	-	-	
		30 PSF	40 PSF	į	B -	-	-	-	-	
3"x3"x0.093" Post (Unbraced) 10ft	-		50 PSF		-	-	-	-	-	
9			20 PSF	-	-	-	-	-	-	
ace		40 PSF	30 PSF	-	-	-	-	-	-	
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66		10 PSF	40 PSF	10'-0''	9'-0''	6'-0''	-	-		
Š		[50 PSF	10'-0''	8'-0''	5'-4"	-	-	-	
ž			20 PSF	7'-4"	-	-	-	-	-	
m		20 005	30 PSF	6'-0''	-	-	-	-		
		20 PSF	40 PSF	5'-2''	-	-	-	-	-	
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	15' -0 "		20 PSF		-	-	-	-	/,	
		20.005	30 PSF	-	-	-	-	-	-	
		30 PSF	40 PSF	-	-	-)	
			50 PSF	-	-	-	-			
			20 PSF	-	-	-	-	-		
		40.005	30 PSF	-	-	-	-	- 4		
		40 PSF	40 PSF	-	-	-	-	-	-	
			50 PSF	-	-	-	-	-	-	



- TABLE NOTES:
 1) 2015 ALUMINUM DESIGN MANUAL, ALLOWABLE STRESS DESIGN METHOD USED IN ALL TABLES.
- MAXIMUM ALLOWABLE POST HEIGHT IS 10 FT.
- DEFLECTION LIMIT = L/120.
- COLUMN SPACING IS HALF THE DISTANCE TO THE LEFT ADDED TO HALF THE DISTANCE TO THE RIGHT OF THE BEAM (AVERAGE COLUMN SPACING). VALUES BELOW ALLOWABLE CEILING HEIGHT INTENDED TO BE BUILT ON KNEEWALLS OR OTHER SUPPORTING STRUCTURES (CERTIFIED BY OTHERS).

- 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 7-22 OR ASCE 7-16 BASED ON APPLICABLE CODE.

				MAXIMUM COLUMN SPACING (FT)					
COLUMN TYPE	MAX ROOF SPAN S	GRAVITY/UPLIFT ASD DESIGN LOAD	WIND LOAD	6'-0"	8'-0"	10'-0"	12'-0"	14'-0"	15'-0"
	(FT)	(PSF)	(PSF)		ALL	OWABLE PO	ST HEIGHT	(FT)	
			20 PSF	10'-0''	10'-0''	10'-0''	10'-0''	9'-9"	8'-7''
		40.005	30 PSF	10'-0''	10'-0''	10'-0''	10'-0''	8'-0"	7'-0''
		10 PSF	40 PSF	10'-0''	10'-0''	10'-0''	8'-9''	6'-11''	6'-1"
			50 PSF	10'-0''	10'-0''	9'-11''	7'-10''	6'-2''	5'-5"
			20 PSF	10'-0''	10'-0''	5'-5''	-	-	-
		20 005	30 PSF	10'-0''	8'-8"	4'-5''	-	-	-
		20 PSF	40 PSF	10'-0''	7'-6''	1	-	-	-
	121.0"		50 PSF	10'-0''	6'-8''	·	-	-	-
12	12 '-0"		20 PSF	9'-7"				711	160
		30 PSF	30 PSF	7'-10''	-				
			40 PSF	6'-9"	- [) -
#			50 PSF	6'-1"		1.11			-
£			20 PSF	-	-	-	-	-	-
ĕ		40 PSF	30 PSF	-	-	-	-	-	-
Jbr.		40 PSF	40 PSF	-	-	-	-	-	-
Ž			50 PSF	-	-	-	-	-	-
ost		40.055	20 PSF	10'-0''	10'-0''	10'-0''	10'-0''	7'-2''	5'-11''
D D			30 PSF	10'-0''	10'-0''	10'-0''	8'-2''	5'-10''	4'-10''
<u> </u>		10 PSF	40 PSF	10'-0''	10'-0''	9'-6''	7'-1''	5'-1''	4'-2''
F.			50 PSF	10'-0''	10'-0''	8'-6''	6'-4''	4'-6''	-
3"x3" Fluted Post (Unbraced) 10ft		_	20 PSF	10'-0''	6'-8''	-	-	-	-
""		20 PSF	30 PSF	10'-0''	5'-5"	-	-	-	-
		20 F3F	40 PSF	10'-0''	4'-9''	-	-	-	-
	15' -0 "		50 PSF	9'-0''	4'-3''	-	-	-	-
	15-0		20 PSF	4'-6''	-	-	-	-	-
		30 PSF	30 PSF	-	-	-	-	-	-
	אור	30 P3F	40 PSF	-	-	-	-	-	
	411/	9	50 PSF	-	-	-	-	-	-
			20 PSF	-	1	-	-	-	
		40 DCF	30 PSF	-	-	-	-	-	-
		40 PSF	40 PSF	-		-	-	-	-
			50 PSF	-	-	-	-	-	-

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STRUCTALL BUILDING SYSTEMS,

23-69317



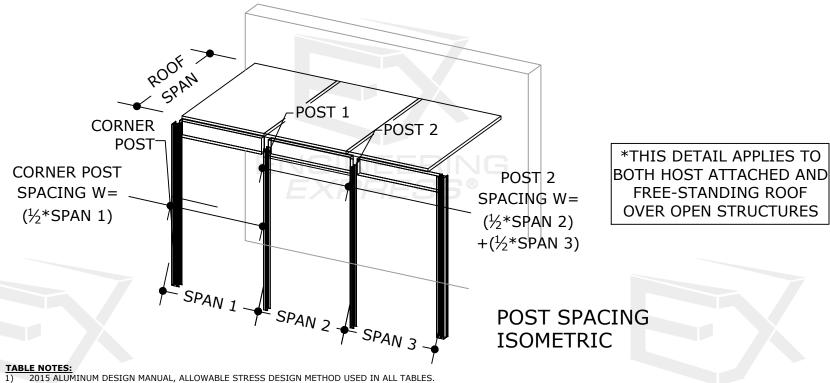


FREESTANDING SYSTEM & HOST-ATTACHED ALLOWABLE POST HEIGHT - CONTINUED

					MAXI	MUM COLU	MN SPACIN	G (FT)	
COLUMN TYPE	MAX ROOF SPAN S	GRAVITY/UPLIFT ASD DESIGN LOAD	LATERAL ASD WIND LOAD	6'-0"	8'-0"	10'-0"	12'-0"	14'-0"	15'-0"
=	(FT)	(PSF)	(PSF)		ALL	OWABLE PC	ST HEIGHT	(FT)	
			20 PSF	10'-0''	10'-0"	10'-0''	10'-0''	10'-0''	10'-0"
			30 PSF	10'-0''	10'-0"	10'-0''	10'-0''	10'-0''	9'-6''
		10 PSF	40 PSF	10'-0''	10'-0''	10'-0''	9'-9''	8'-8''	8'-3''
			50 PSF	10'-0''	10'-0''	10'-0''	8'-9''	7'-9''	7'-4''
			20 PSF	10'-0''	10'-0''	10'-0''	10'-0''	8'-9''	8'-0''
		22.25	30 PSF	10'-0''	10'-0''	10'-0''	8'-7''	7'-2''	6'-6''
		20 PSF	40 PSF	10'-0''	10'-0''	9'-0''	7'-5''	6'-2''	5'-8''
	401.60		50 PSF	10'-0''	9'-10''	8'-1''	6'-8''	5'-6''	5'-0''
	12 '-0 "		20 PSF	10'-0''	10'-0''	9'-9''	7'-3''	5'-3"	4'-4''
	_	30 PSF	30 PSF	10'-0''	10'-0''	8'-0''	6'-0''	4'-3''	-
			40 PSF	10'-0''	9'-2"	6'-11''	5'-2''	-	-
₹			50 PSF	10'-0''	8'-2"	6'-2''	4'-7''	-	-
1			20 PSF	10'-0''	10'-0''	6'-9''	4'-0''	-	-
99			30 PSF	10'-0''	8'-4''	5'-6''	-	-	-
pra		40 PSF	40 PSF	10'-0''	7'-3''	4'-10''	-	-	-
4"x4" Fluted Post (Unbraced) 10ft			50 PSF	9'-5"	6'-6''	4'-3''	-	-	-
ost			20 PSF	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''
0			30 PSF	10'-0''	10'-0''	10'-0''	10'-0''	9'-5''	8'-10"
퓱		10 PSF	40 PSF	10'-0''	10'-0''	10'-0''	9'-3''	8'-2''	7'-8''
<u></u>			50 PSF	10'-0''	10'-0''	9'-6''	8'-3''	7'-3''	6'-10''
<u>*</u> .			20 PSF	10'-0''	10'-0''	10'-0''	9'-2''	7'-3''	6'-5''
4			30 PSF	10'-0''	10'-0''	9'-4''	7'-6''	6'-0''	5'-3''
		20 PSF	40 PSF	10'-0''	10'-0''	8'-1''	6'-6''	5'-1''	4'-6''
	15'- 0 "		50 PSF	10'-0''	9'-2''	7'-3''	5'-9''	4'-7''	4'-1''
	15 -0		20 PSF	10'-0''	10'-0''	7'-10''	5'-2''	-	-
		20.005	30 PSF	10'-0''	9'-2''	6'-5''	4'-3''	-	-
		30 PSF	40 PSF	10'-0''	8'-0''	5'-7''	-	-	-
			50 PSF	10'-0''	7'-1''	5'-0''	-		- N- 1
			20 PSF	10'-0''	8'-0''	4'-3''	-		
		40 000	30 PSF	10'-0''	6'-6''	-	-	-	7
		40 PSF	40 PSF	9'-2''	5'-8''	-	-	-	
			50 PSF	8'-2''	5'-0''	-	-	-	-

				MAXIMUM COLUMN SPACING (FT)						
COLUMN TYPE	MAX ROOF SPAN S		LATERAL ASD WIND LOAD	6'-0"	8'-0"	10'-0"	12'-0"	14'-0"	15'-0'	
	(FT)	(PSF)	(PSF)		ALL	OWABLE PO	ST HEIGHT	(FT)		
			20 PSF	10'-0''	10'-0"	10'-0''	10'-0''	10'-0''	10'-0'	
		40.005	30 PSF	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0	
		10 PSF	40 PSF	10'-0''	10'-0''	10'-0''	10'-0''	9'-7''	9'-2	
			50 PSF	10'-0''	10'-0''	10'-0''	9'-3''	8'-6''	8'-3	
			20 PSF	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0	
		20 005	30 PSF	10'-0''	10'-0"	10'-0''	10'-0''	10'-0''	10'-0	
		20 PSF	40 PSF	10'-0''	10'-0''	10'-0''	10'-0''	9'-3''	8'-10	
			50 PSF	10'-0''	10'-0''	10'-0''	9'-0''	8'-3''	8'-0	
	12'-0"		20 PSF	10'-0''	10'-0''	10'-0''	10'-0''	10'-0"	10'-0	
		20 005	30 PSF	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	9'-10	
		30 PSF	40 PSF	10'-0''	10'-0''	10'-0''	9'-9''	9'-0''	8'-7	
∉			50 PSF	10'-0''	10'-0''	9'-9''	8'-9''	8'-0''	7'-8	
) 10			20 PSF	10'-0''	10'-0''	10'-0''	10'-0''	10'-0"	10'-	
ced		40 DCF	30 PSF	10'-0''	10'-0''	10'-0''	10'-0''	10'-0"	9'-6	
bra		40 PSF	40 PSF	10'-0''	10'-0''	10'-0''	9'-6''	8'-7"	8'-3	
5			50 PSF	10'-0''	10'-0''	9'-6''	8'-6''	7'-8"	7'-4	
ost			20 PSF	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-	
<u>-</u>		10 PSF	30 PSF	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-	
1/8		10 P3F	40 PSF	10'-0''	10'-0''	10'-0''	10'-0''	9'-6''	9'-2	
6"x6"x1/8" Post (Unbraced) 10ft			50 PSF	10'-0''	10'-0''	10'-0''	9'-2''	8'-6''	8'-2	
. <u> </u>				20 PSF	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0
		20 PSF	30 PSF	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0	
		20 PSF	40 PSF	10'-0''	10'-0''	10'-0''	10'-0''	9'-1''	8'-9	
	15'-0"		50 PSF	10'-0''	10'-0''	9'-10''	8'-11''	8'-2''	7'-10	
	15-0		20 PSF	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0	
		30 PSF	30 PSF	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	9'-8	
		30 P3F	40 PSF	10'-0''	10'-0''	10'-0''	9'-7''	8'-9"	8'-4	
			50 PSF	10'-0''	10'-0''	9'-7''	8'-7''	7'-10"	7'-6	
			20 PSF	10'-0''	10'-0''	10'-0"	10'-0"	10'-0"	10'-0	
		40 PSF	30 PSF	10'-0''	10'-0''	10'-0"	10'-0"	9'-8"	9'-2	
		40 F3F	40 PSF	10'-0''	10'-0''	10'-0"	9'-3"	8'-4"	8'-0	
				50 PSF	10'-0''	10'-0"	9'-3"	8'-3"	7'-5"	7'-1

				MAXIMUM COLUMN SPACING (FT)							
COLUMN TYPE	MAX ROOF SPAN S	IN S ASD DESIGN LOAD	LATERAL ASD WIND LOAD	6'-0"	8'-0"	10'-0"	12'-0"	14'-0"	15'-0"		
	(FT)	(PSF)	(PSF)		ALI	LOWABLE PO	OST HEIGHT	(FT)			
			20 PSF	10'-0''	10'-0"	10'-0"	10'-0''	10'-0''	10'-0'		
		40.005	30 PSF	10'-0''	10'-0"	10'-0"	10'-0''	10'-0''	10'-0		
		10 PSF	40 PSF	10'-0''	10'-0"	10'-0"	10'-0''	10'-0''	10'-0		
			50 PSF	10'-0''	10'-0"	10'-0''	10'-0''	10'-0''	10'-0		
			20 PSF	10'-0''	10'-0"	10'-0''	10'-0''	10'-0''	10'-0		
		20.505	30 PSF	10'-0''	10'-0"	10'-0"	10'-0''	10'-0''	10'-0		
		20 PSF	40 PSF	10'-0''	10'-0"	10'-0"	10'-0''	10'-0''	10'-0		
	421.00		50 PSF	10'-0''	10'-0"	10'-0"	10'-0''	10'-0''	9'-4'		
	12 '-0"	30 PSF	20 PSF	10'-0''	10'-0''	10'-0''	10'-0''	9'-6''	7'-9'		
			30 PSF	10'-0''	10'-0"	10'-0"	10'-0''	7'-9''	6'-4'		
			40 PSF	10'-0''	10'-0"	10'-0"	9'-5"	6'-9''	5'-6'		
∉			50 PSF	10'-0''	10'-0"	10'-0"	8'-5"	6'-0''	5'-0'		
)10			20 PSF	10'-0''	10'-0"	10'-0"	7'-2"		<i>.</i>		
ed Ge		40.005	30 PSF	10'-0''	10'-0''	10'-0"	5'-10''	-	-		
bra		40 PSF	40 PSF	10'-0''	10'-0''	8'-9''	5'-1''	-	-		
Ę.			50 PSF	10'-0''	10'-0''	7'-10''	4'-6''	-	-		
ost			20 PSF	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0		
Ğ.		40.005	30 PSF	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0		
1/8		10 PSF	40 PSF	10'-0''	10'-0''	10'-0"	10'-0''	10'-0''	10'-0		
4"x4"x1/8" Post (Unbraced) 10ft			50 PSF	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0		
<u>*</u>			20 PSF	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0		
		20 DCE	30 PSF	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	9'-7'		
		20 PSF	40 PSF	10'-0''	10'-0''	10'-0''	10'-0''	9'-5''	8'-4'		
	151.01		50 PSF	10'-0''	10'-0''	10'-0''	10'-0''	8'-5''	7'-5'		
	15'-0"		20 PSF	10'-0''	10'-0''	10'-0''	9'-4''	5'-2''	-		
		30 DCE	30 PSF	10'-0''	10'-0''	10'-0''	7'-8''	4'-3''	-		
		30 PSF	40 PSF	10'-0''	10'-0''	10'-0''	6'-8''	-	-		
		N 10	50 PSF	10'-0''	10'-0''	9'-1''	6'-0''	-	-		
		NE	20 PSF	10'-0''	10'-0''	7'-6''	-	-	-		
	00	40 PSF	30 PSF	10'-0''	10'-0''	6'-2''	-	-	-		
	Di.	40 PSF	40 PSF	10'-0''	10'-0''	5'-4''	-	-	-		
					50 PSF	10'-0''	9'-2''	4'-9''	-	-	_



- MAXIMUM ALLOWABLE POST HEIGHT IS 10 FT.
- COLUMN SPACING IS HALF THE DISTANCE TO THE LEFT ADDED TO HALF THE DISTANCE TO THE RIGHT OF THE BEAM (AVERAGE COLUMN SPACING).
 VALUES BELOW ALLOWABLE CEILING HEIGHT INTENDED TO BE BUILT ON KNEEWALLS OR OTHER SUPPORTING STRUCTURES (CERTIFIED BY OTHERS).
- 2PSF DEAD LOAD USED IN CALCULATIONS.
 - 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 7-22 OR ASCE 7-16 BASED ON APPLICABLE CODE.

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STRUCTALL BUILDING SYSTEMS,

23-69317

SCALE: NTS UNLESS NOTED





FREESTANDING & HOST ATTACHED SYSTEM EAVE BEAM SPANS

Beam	Roof Load		Max Roof Span (ft)					
Type	(psf)	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"		
18	20 PSF	7'-0''	6'-5''	6'-0''	5'-7''	5'-3''	E (1	
2"x4" SMB Beam	30 PSF	5'-9''	5'-3"	4'-10''	4'-6''	4'-3''	Beam n (ft)	
x4" Be	40 PSF	5'-0''	4'-6''	4'-2''	4'-0''	3'-8''	Max Spai	
1,1	50 PSF	4'-5''	4'-1''	3'-9"	3'-6''	3'-4''	2 "	

Beam	Roof Load	Max Roof Span (ft)				
Type	(psf)	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"
IS	20 PSF	8'-4''	7'-8''	7'-1''	6'-7''	6'-3"
' SMS am	30 PSF	6'-10''	6'-3''	5'-9''	5'-5"	5'-1"
2"x5" S Beal	40 PSF	6'-0''	5'-5''	5'-0''	4'-8''	4'-5''
	50 PSF	5'-4''	4'-10''	4'-6''	4'-2''	4'-0''

Beam	Roof Load	oad Max Roof Span (ft)				
Type	(psf)	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"
15	20 PSF	10'-7''	9'-8''	9'-0''	8'-4''	7'-11''
2"x6" SMS Beam	30 PSF	8'-8''	7'-11''	7'-3''	6'-10''	6'-5''
	40 PSF	7'-6"	6'-10''	6'-4''	5'-11''	5'-7"
	50 PSF	6'-8''	6'-1"	5'-8"	5'-3''	5'-0''

Beam	Roof Load	N	Лах Ro	oof Spa	an (ft		
Type	(psf)	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	
SI	20 PSF	10'-11''	10'-0''	9'-2''	8'-7''	8'-1''	m t)
' SMS am	30 PSF	8'-11''	8'-1''	7'-6''	7'-0''	6'-7''	Bean n (ft)
2"x7" g Beal	40 PSF	7'-8''	7'-0''	6'-6''	6'-1"	5'-9"	Max Spai
7	50 PSF	6'-11''	6'-3''	5'-10''	5'-5"	5'-2"	≥ 0,

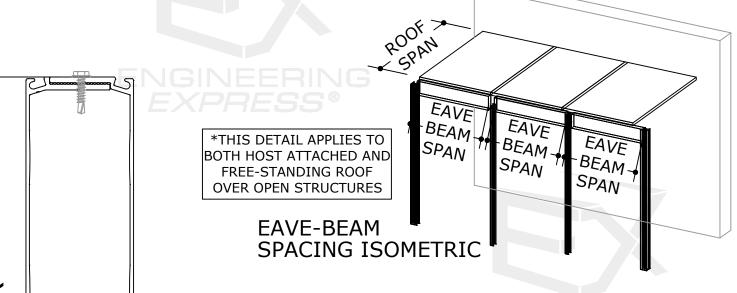


TABLE NOTES:

2015 ALUMINUM DESIGN MANUAL, ALLOWABLE STRESS DESIGN METHOD USED IN ALL TABLES.

DEFLECTION LIMIT = L/120

2PSF DEAD LOAD CONSIDERED IN CALCULATIONS.

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 7-22 OR ASCE 7-16 BASED ON APPLICABLE CODE.

Beam	Roof Load	Max Roof Span (ft)					
Type	(psf)	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	
IS	20 PSF	15'-0''	15'-0''	14'-6''	13'-6''	12'-9''	
SMS	30 PSF	14'-0''	12'-9''	11'-10''	11'-1''	10'-5"	
x8" Beal	40 PSF	12'-1''	11'-1''	10'-3''	9'-7''		
X PR	50 PSF	10'-10''	9'-11''	9'-2''	8'-7''	8'-1"	

Beam	Roof Load	Max Roof Span (ft)					
Type	(psf)	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	
1S	20 PSF	15'-0''	15'-0"	15'-0''	15'-0''	14'-2''	ш
' SMS am	30 PSF	15'-0''	14'-2''	13'-1"	12'-3''	11'-7''	Beam
2"x9" g Bear	40 PSF	13'-5''	12'-3"	11'-4"	10'-8''		
7	50 PSF	12'-0''	11'-0''	10'-2''	9'-6''	9'-0''	Σ

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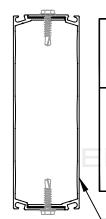
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Beam	Roof Load	Max Roof Span (ft)					
Type	(psf)	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	
SMB	20 PSF	15'-0''	15'-0''	15'-0''	15'-0''	15'-0''	E =
"SI am	30 PSF	15'-0''	15'-0''	15'-0''	15'-0''	15'-0''	Beam n (ft)
2"x10" Bea	40 PSF	15'-0''	15'-0''	15'-0''	15'-0''	14'-2''	
2 7	50 PSF	15'-0''	15'-0''	14'-4''	13'-5''	12'-8''	\ \sim 0

2"x10" SELF MATING BEAM

Beam	Roof Load	N	∕lax Ro	of Spa	an (ft		
Type	(psf)	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	
ge	20 PSF	12'-7''	11'-6''	10'-8''	10'-0''	9'-5''	E (t)
2"x5" Edge Beam	30 PSF	10'-3''	9'-5''	8'-8''	8'-1"	7'-8''	Bean n (ft)
X5" Be	40 PSF	8'-11''	8'-1''	7'-6''	7'-0''	6'-8"	Max Be Span
2	50 PSF	8'-0"	7'-3''	6'-9''	6'-3"	6'-0''	≥ 0

· 2"x5" EDGE BEAM

2"x7" EDGE BEAM

	Beam	Roof Load	N					
	Type	(psf)	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	
ſ	90	20 PSF	15'-0''	15'-0''	15'-0''	14'-3''	13'-5''	eam (ft)
	Edge	30 PSF	14'-9''	13'-5"	12'-5"	11'-8''	11'-0''	Bea n (ft
	2"x7" Ed Beam	40 PSF	12'-9''	11'-8''	10'-9''	10'-1''	9'-6''	Max B Span
	2"	50 PSF	11'-5"	10'-5"	9'-8''	9'-0''	8'-6''	Σ

2"x7" REINFORCED EDGE BEAM

В	eam	Roof Load	N	∕lax Ro	oof Spa	an (ft		
T	ype	(psf)	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	
pa E	ed	20 PSF	15'-0''	15'-0''	15'-0''	15'-0''	15'-0''	t)
7		30 PSF	15'-0''	15'-0''	15'-0''	14'-2''	13'-5"	Bearr n (ft)
2",	Reinforc Edge Bea	40 PSF	15'-0''	14'-2''	13'-2''	12'-4''	11'-7''	
	Re Ed	50 PSF	13'-11"	12'-8''	11'-9''	11'-0''	10'-4''	≥ 0,

Max Roof Span (ft) Beam Roof Load Type (psf) 8'-0" 10'-0" | 12'-0" |14'-0"|16'-0" 2"x8" Edge Beam 15'-0" 15'-0'' 15'-0'' 15'-0' 15'-0'' Max Beam Span (ft) **20 PSF** 14'-6" 13'-7" 12'-9" 15'-0" 15'-0" **30 PSF** 14'-10' 13'-7'' 12'-6" 11'-9" 11'-1' **40 PSF** | 11'-3'' |10'-6'' |9'-7' 13'-3" 12'-1'' **50 PSF**

2"x8" EDGE BEAM

2"x10"	EDGE	BEAM -
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Beam	Roof Load	N	Лах Ro	of Spa	an (ft)		
Type	(psf)	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"		
Edge m	20 PSF	15'-0''	15'-0''	15'-0''	15'-0''	15'-0''	E (;	
" Ed	30 PSF	15'-0''	15'-0''	15'-0''	15'-0''	15'-0''	Max Beam Span (ft)	
2"x10" Bear	40 PSF	15'-0''	15'-0''	15'-0''	14'-1''	13'-3"	lax Spai	
2",	50 PSF	15'-0''	14'-6''	13'-5''	12'-7''	11'-9''	≥ 0,	F

6.7 C-BEAM

Beam	Roof Load		Лах Ro	of Spa	an (ft)	
Type	(psf)	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	
E	20 PSF	14'-2''	13'-0"	12'-0''	11'-2''	10'-7''	E (;
6.7 C-Beam	30 PSF	11'-7''	10'-7''	9'-9''	9'-2"	8'-7''	Beam n (ft)
, C-	40 PSF	10'-0''	9'-2''	8'-5''	7'-11''	7'-5"	
2.9	50 PSF	9'-0"	8'-2"	7'-7''	7'-1''	6'-8''	S 6

4" TILT BEAM

Beam	Roof Load	N	Лах Ro	of Sp	an (ft)	
Туре	(psf)	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	
=	20 PSF	7'-7''	6'-11''	6'-5''	6'-0''	5'-8''	ım t)
" Tilt	30 PSF	6'-2''	5'-8''	5'-3''	4'-10''	4'-7''	Bearr n (ft)
2"x4" Beal	40 PSF	5'-4''	4'-10''	4'-6''	4'-3''	4'-0''	Max Bo Span
7	50 PSF	4'-9''	4'-4''	4'-0''	3'-9"	3'-7''	Š

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