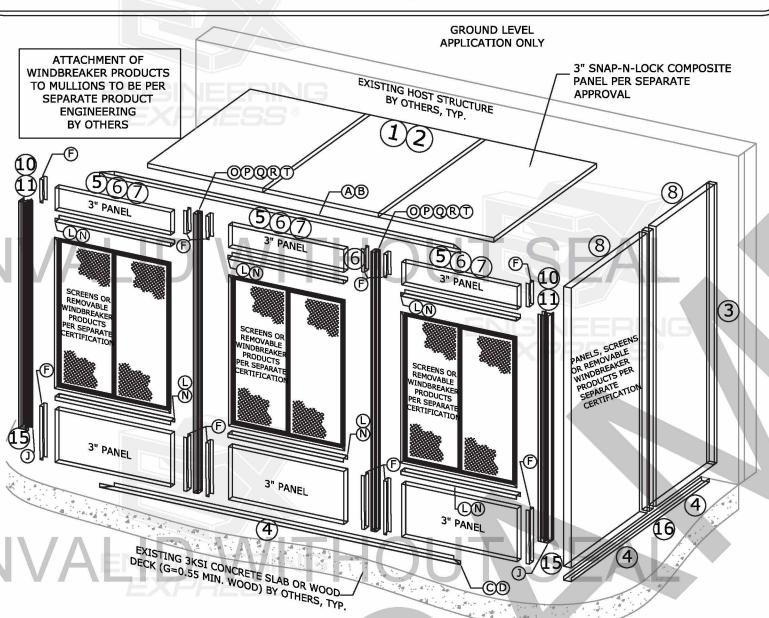
# MODULAR ROOMS

OPEN, SCREENED & ACRYLIC WALL
ROOM SYSTEMS
MASTER PLAN SHEET



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- THIS ENCLOSURE IS ONLY CERTIFIED AS **NON-HABITABLE** PER AAMA 2100

- THIS MASTER PLAN DOES **NOT APPLY** TO GLASS ENCLOSURES.

ACRYLIC WINDOWS DESIGNED TO BE REMOVED AT 75MPH SUSTAINED WINDS.

# COPIES NOT VALID FOR PERMIT

# **DESIGN NOTES:**

POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCEWITH 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.
- 4. 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.

- 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.
- 6. 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.
- 7. ALL CONCRETE ANCHORS SHALL BE INSTALLED TO NON-CRACKED CONCRETE ONLY.

### **MATERIALS**

- 8. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- 9. ALL ALUMINUM SHALL BE 6063-T6 ALLOY AND TEMPER UNLESS NOTED OTHERWISE.
- 10. ALL CONCRETE TO REACH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 7 DAYS. 11. ANY WOOD USED IN A PRIMARY CONNECTION SHALL BE SYP#2 OR BETTER.

- 12. 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.
- 13. THIS ENGINEER HAS NOT VISITED THIS JOBSITE. INFORMATION CONTAINED HEREIN IS BASED ON CONTRACTOR SUPPLIED DATA AND MEASUREMENTS. THIS ENGINEER SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS. WORK SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. THIS ENGINEER SHALL BE NOTIFIED AND GIVEN AN OPPORTUNITY TO REEVALUATE OUR WORK UPON DISCOVERY OF ANY INACCURATE INFORMATION PRIOR TO MODIFICATION OF EXISTING FIELD CONDITIONS AND FABRICATION AND INSTALLATION OF MATERIALS.
- 14. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- 15. ALTERATIONS, ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.

RANK BENNARDO, P.E

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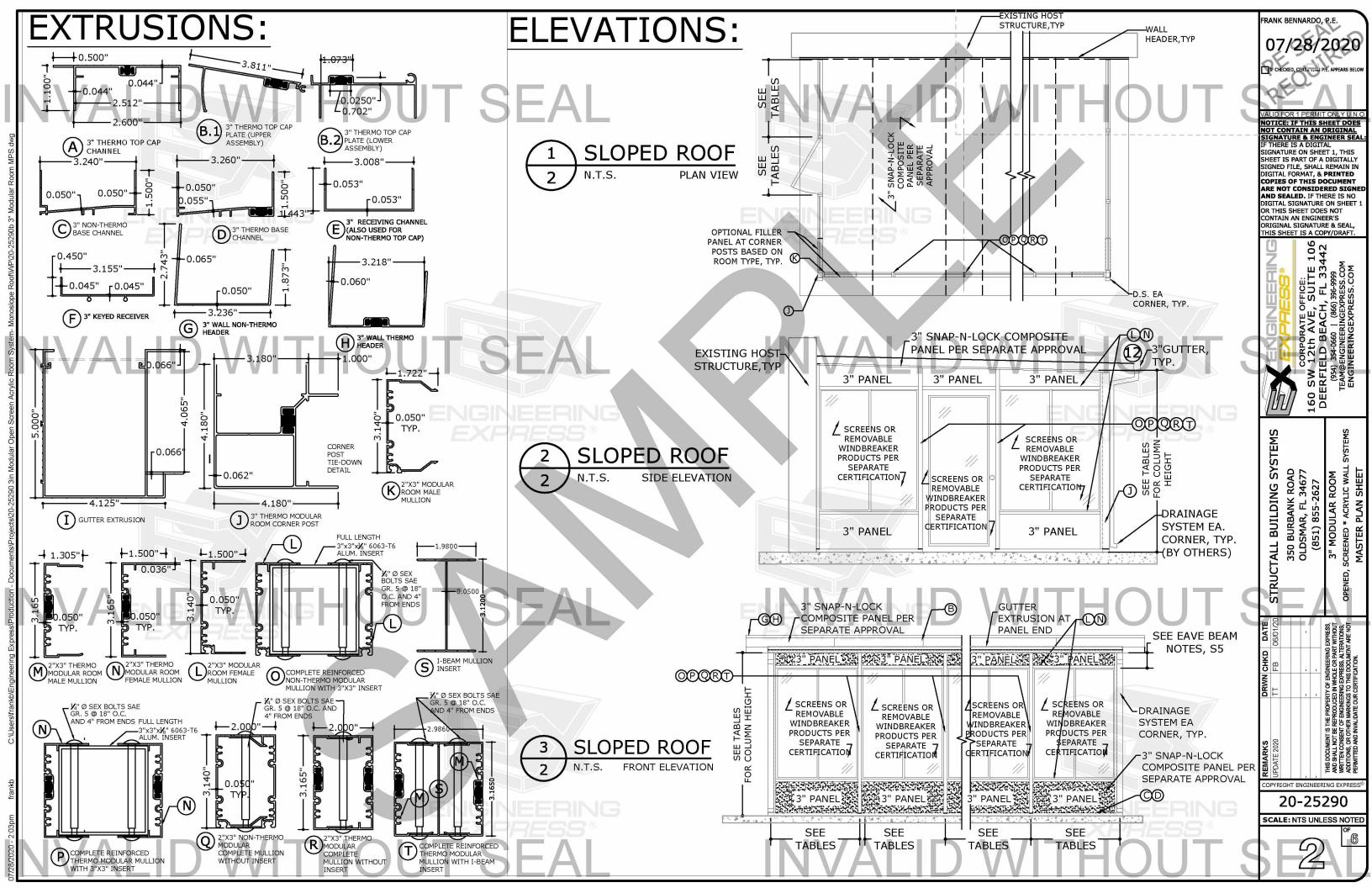
SYSTEMS

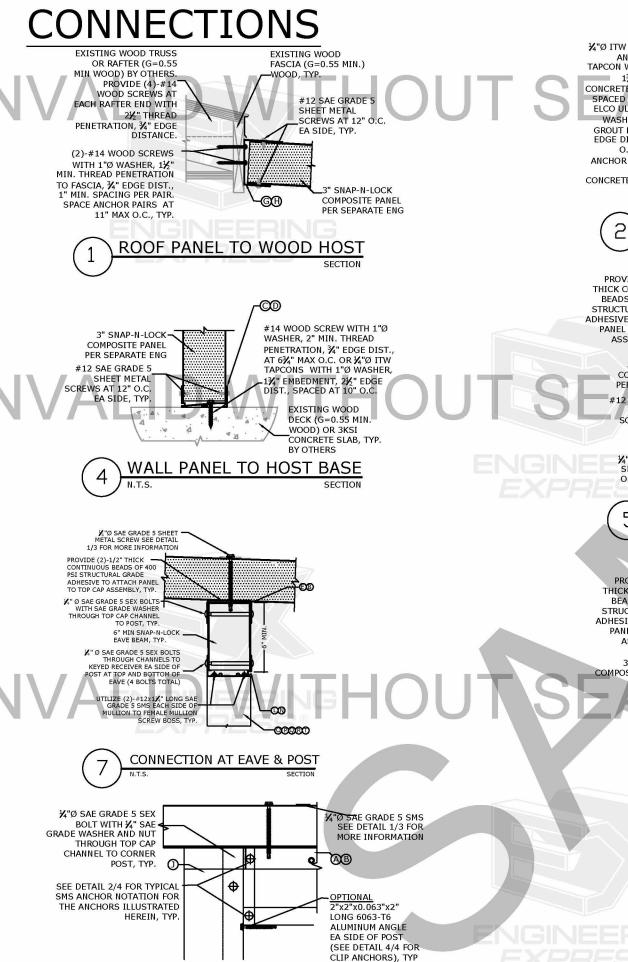
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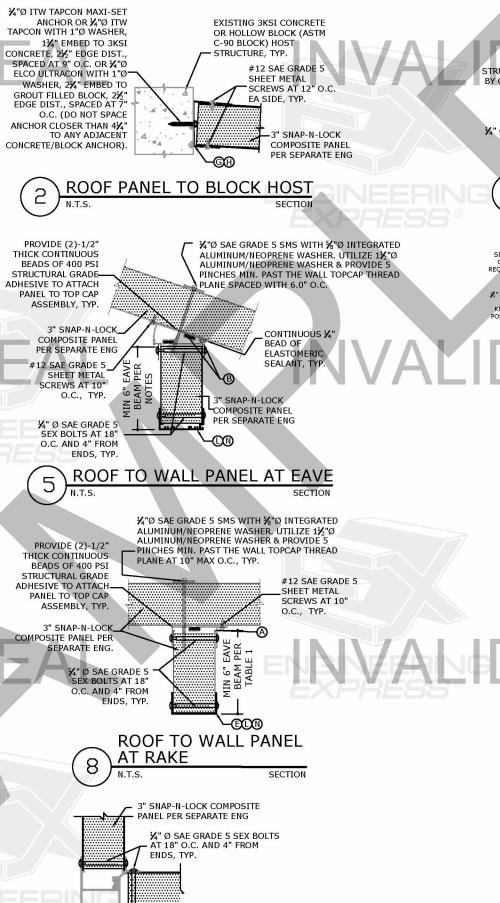
3" MODULAR ROOM SCREENED \* ACRYLIC WALL MASTER PLAN SHEET 350 I

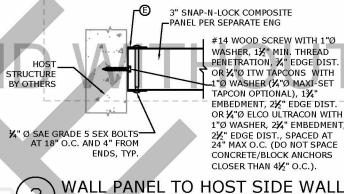
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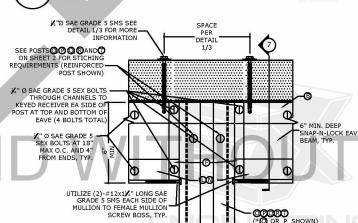
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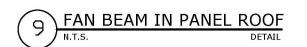


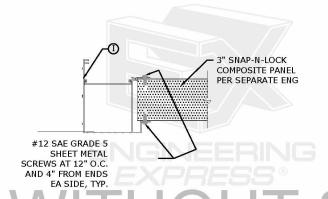




3" SNAP-N-LOCK -COMPOSITE PANEL CONTINUOUS 1½"x3"x0.05"\_ 6063-T6 ALUMINUM FAN BEAM, TYP. 50LB MAXIMUM FAN

CONNECTION AT EAVE & POST





07/28/2020

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SYSTEMS

3" MODULAR ROOM , SCREENED \* ACRYLIC WALL ! MASTER PLAN SHEET

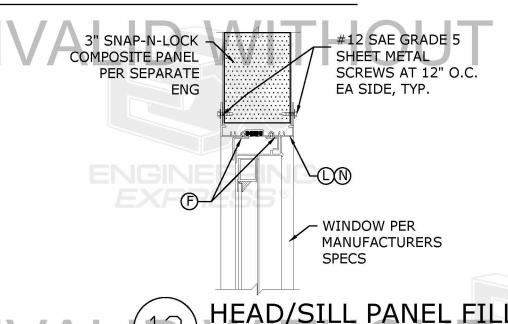
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**UCTALL BUILDING** 

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# CONNECTIONS



UTILIZE (3)-#12 SAE GRADE 5 SMS THROUGH EACH CLIP ANGLE TO 2"x2"x0.063"x2" LONG 6063-T6 ALUMINUM ANGLE, (1)- ¼"Ø ITW TAPCON WITH 1½"Ø WASHER PER ANGLE, 2½" EMBED, 3½" EDGE, 3½" MIN. SPACING TO ANY ADJACENT CONCRETE ANCHOR OR (4)-1/4"Ø LAG SCREWS WITH 1"Ø (1) EA SIDE OF POST ON THE WASHER, 2½" THREAD PENETRATION, 1" EDGE DISTANCE, 1" MIN. SPACING TO ANY ADJACENT WOOD ANCHOR, TYP. '¼" Ø SAE GRADE 5 SEX BOLTS WITH – SAE GRADE WASHER THROUGH TOP CAP CHANNEL TO POST, TYP.

INSIDE FACE (2 CLIPS TOTAL). SEE PLAN VIEW A-A FOR PLACEMENT INFORMATION, TYP. TYPICAL CORNER POST TIE-DOWN FOR ALL SYSTEMS

# ANCHOR# 1 SCHEDULE A:

, (1 <b>1</b> C) 1 C	1 2 11	OTTED OFF TAI
WIND TIER	ANCHOR TYPE	DESCRIPTION
up to 20 psf	1	(1)- ¼"Ø SAE GRADE 5 SEX BOLT WITH 1/4" SAE GRADE WASHER
from 20 psf to 30 psf	1	(1)-3/8"Ø SAE GRADE 5 SEX BOLT WITH 3/8" SAE GRADE WASHER

1/4" Ø SAE GRADE 5 SEX BOLTS AT 18" O.C. AND 4" FROM ENDS, TYP. 3" SNAP-N-LOCK ¬ COMPOSITE PANEL WINDOW PER PER SEPARATE ENG **MANUFACTURERS** SPECS

WIND JAMB AT PANEL FILL

**SEE SHEET 2** 

FOR SEX BOLT REQUIREMENTS OPORT-1/4" Ø SAE GRADE 5 SEX FOR STITCHING B" SNAP-N-LOCK **BOLTS THROUGH KEYED** PANEL, TYP. PER RECEIVER TO PANEL, TYP. SEPARATE ENG Φ. (4)-5/16"Ø SEX BOLTS THROUGH KEYED RECEIVER TO MULLION, TYP. ANCHOR #1: SEE **-00** SEE DETAIL 9/3 FOR TYPICAL ANCHOR TYPE AND SPACING SEE DETAIL 9/3 FOR TYPICAL ANCHOR TYPE SEE SCHEDULE FOR AND SPACING ANCHOR INFO AND\_ QUANTITIES REQUIRED, TYP. CONCRETE OR WOOD (G=0.55 MIN.) HOST STRUCTURE BY OTHERS, TYP. ANCHOR #2: SEE SCHEDULE B TYPICAL POST CONNECTION

FOR GLASS WALL SYSTEMS 16 N.T.S.

DETAIL

# ANCHOR #2 SCHEDULE B:

71110	10 11 2 3 31	ILDOLL DI
WIND TIER	ANCHOR 2 SUBSTRATE	QUANTITY REQUIRED
up to 20 psf	CONNECTION AT CONCRETE	(2)-3/8"Ø ITW TAPCONS WITH 1½"Ø WASHER, 2½" EMBED, 3" EDGE, 4" SPACING, TYP.
20 psi	CONNECTION AT WOOD	(3)-1/4"Ø LAG SCREWS 1½"Ø WASHER, 2½" THREAD PENETRATION, 1" EDGE, 1" SPACING
from 20 psf to 30 psf	CONNECTION AT CONCRETE	(2)-3/8"Ø ITW TAPCONS WITH 1½"Ø WASHER, 2½" EMBED, 3" EDGE, 4" SPACING, TYP.
to 30 psf	CONNECTION AT WOOD	(4)-1/4"Ø LAG SCREWS 1½"Ø WASHER, 2½" THREAD PENETRATION, 1" EDGE, 1" SPACING

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3" MODULAR ROOM , SCREENED \* ACRYLIC WALL MASTER PLAN SHEET

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**EAVE BEAM CLEAR SPAN ISOMETRIC DETAIL\*** 

\*OPEN WALL SYSTEM IS SHOWN FOR CLARITY, THIS ISOMETRIC IS APPLICABLE TO ANY WALL SYSTEM

# **EAVE BEAM SPAN EAVE BEAM SPACING**

# **EAVE BEAM NOTES:**

## **6" PANEL DEPTH:**

\*OPEN WALL SYSTEM IS

SHOWN FOR CLARITY, THIS

EAVE BEAM SPAN= 5'-0" UP TO 50PSF EAVE BEAM SPAN= 6'-0" UP TO 40PSF MAX ALLOWABLE CLEAR ROOF SPAN=

## 7" OR GREATER PANEL DEPTH:

EAVE BEAM SPAN= 6'-0" UP TO 60PSF AT 16' CLEAR ROOF SPAN

SITE SPECIFIC ENGINEERING FOR ADDITIONAL SPANS DEFLECTION LIMIT = L/60.

# **TABLES 1 & 2:**

# SCREEN WALL ALLOWABLE POST HEIGHT:

COLUMN	MAX ROOF	LIVE LOAD	WIND LOAD		AVERAGE COLUMN SPACING W(FT)					
TYPE	SPAN S (FT)	GRAVITY (PSF)	(PSF)	3	-4	5 5	6	77		
		$\mathbb{J}^{\prime}$	20	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''		
		20	30	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''		
		20	40	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''		
æ 🗀	NICE		50	10'-0''	10'-0''	10'-0''	10'-0''	9'-2''		
3" Mod Room (Male+ Female)		30	20	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''		
Fer			30	10'-0"	10'-0''	10'-0''	10'-0''	10'-0''		
₽ P			40	10'-0''	10'-0''	10'-0''	10'-0''	9'-8''		
N S	12		50	10'-0''	10'-0''	10'-0''	9'-7''	8'-8''		
E	12	40	20	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''		
00			30	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''		
P P			40	10'-0''	10'-0''	10'-0''	10'-0''	9'-1''		
Ĕ	IN	\//	50	10'-0''	10'-0"	10'-0''	9'-1''	8'-2''		
Ęn			20	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''		
		<b>V</b> /	30	10'-0''	10'-0''	10'-0''	10'-0''	9'-10"		
		50	40	10'-0''	10'-0''	10'-0''	9'-8''	8'-6''		
			50	10'-0''	10'-0''	9'-11''	8'-7''	7'-7''		

				1			\/ /		
COLUMN	MAX ROOF	LIVE LOAD GRAVITY	WIND LOAD	AVERAGE COLUMN SPACING W(FT)					
TYPE	SPÅN S (FT)	(PSF)	(PSF)	3	4	5	6	7	
	1		20	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	
*		20	30	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	
(e)		20	/40	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	
nal			50	10'-0''	10'-0''	10'-0''	10'-0''	9'-8''	
Æ			20	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	
le+			30	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	
<u>R</u>	A	30	40	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	
m .	MEN	$\mathcal{M}_{\mathcal{A}}$	50	10'-0''	10'-0''	10'-0''	10'-0''	9'-8''	
Roc	12	40	20	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	
po			30	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	
Σ			40	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	
Ĕ			50	10'-0''	10'-0''	10'-0''	10'-0''	9'-8''	
3" Thermo Mod Room (Male+ Female)		F.0	20	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	
3".			30	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	
		50	40	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	
			50	10'-0''	10'-0''	10'-0''	10'-0''	9'-8''	

# **POST HEIGHT:** ISOMETRIC IS APPLICABLE TO ANY WALL SYSTEM POST SPACING ISOMETRIC DETAIL\* -POST 1 CORNER-POST 2 CORNER POST SPACING= (½\*SPAN 1) POST 2 SPACING= (1/2\*SPAN 2) +(½\*SPAN 3) -SPAN 2. -SPAN 3

EXPLODED ISOMETRIC

## TABLE 1 & 2 NOTES:

- DEFLECTION LIMIT = L/60 USED IN TABLE RESULTS.
- 2. VALUES BELOW ALLOWABLE CEILING HEIGHT INTENDED TO BE BUILT ON KNEEWALLS OR OTHER SUPPORTING STRUCTURES (CERTIFIED BY OTHERS).
- RESULTS FOR THERMALLY BROKEN POSTS SHALL BE REDUCED BY 10% TO ACCOUNT FOR THERMAL BREAK STRENGTH LOSS.

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SCALE: NTS UNLESS NOTED

POST SPACING

# **TABLES 3 & 4:**

# REMOVABLE ACRYLIC ALLOWABLE POST HEIGHT:

COLUMN	MAX ROOF		WIND LOAD	AVERAGE COLUMN SPACING W(FT)					
TYPE	SPAN S (FT)	GRAVITY (PSF)	(PSF)	3	4	5	6	7	
			20	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	
		20	30	10'-0"	10'-0''	10'-0"	9'-8"	8'-9''	
	20	40	10'-0''	10'-0''	9'-4''	8'-4"	7'-7''		
			50	10'-0''	9'-5''	8'-4''	7'-6"	6'-10''	
Female)	ENIC	NEF	20	10'-0''	10'-0''	10'-0"	10'-0''	10'-0''	
Ferr		30	30 ®	10'-0''	10'-0''	10'-0"	9'-2"	8'-3''	
<b>t</b>			40	10'-0''	10'-0''	9'-0''	8'-0''	7'-2''	
Room (Male+	12		50	10'-0''	9'-2''	8'-0''	7'-1''	6'-5''	
Ε	12	40	20	10'-0''	10'-0''	10'-0"	10'-0''	9'-6''	
loo			30	10'-0''	10'-0''	9'-11"	8'-9"	7'-9''	
A F			40	10'-0"	9'-11''	8'-7''	7'-7"	6'-9''	
Ĕ	В Д Д Д Д Д Д Д Д Д Д Д Д Д Д Д Д Д Д Д		50	10'-0''	8'-10''	7'-8''	6'-9''	6'-0''	
, <b>P</b>		7	20	10'-0"	10'-0"	10'-0"	10'-0"	9'-0''	
			30	10'-0"	10'-0''	9'-6''	8'-3"	7'-3"	
		50	40	10'-0''	9'-7''	8'-2"	7'-2"	6'-4''	
			50	10'-0''	8'-7''	7'-4''	6'-5"	5'-8''	

COLUMN	PROPERTY OF STREET	LIVE LOAD GRAVITY	WIND LOAD		AVERAGE C	OLUMN SPA	CING W(FT)	HE:
TYPE	SPAN S (FT)	(PSF)	(PSF)	3	4	5	6	7
			20	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''
		20	30	10'-0''	10'-0''	10'-0''	9'-5"	8'-7''
(e)	6	20	40	10'-0''	10'-0''	9'-2''	8'-3"	7'-7''
ma <u>l</u>			50	10'-0''	9'-3''	8'-3''	7'-6''	6'-11''
ᅙ			20	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''
<u>=</u>		30	30	10'-0"	10'-0''	10'-0"	9'-8"	8'-10''
<u>Z</u>	(Male+ Female)		40	10'-0''	10'-0''	9'-3''	8'-5"	7'-9''
Room	12		50	10'-0''	9'-4''	8'-4''	7'-6"	7'-0''
8		40	20	10'-0''	10'-0''	10'-0"	10'-0''	10'-0''
	1746		30	10'-0''	10'-0''	10'-0"	9'-8"	9'-0''
Σ	EX		40	10'-0''	10'-0''	9'-3''	8'-5"	7'-9''
Ě	3" Thermo Mod		50	10'-0''	9'-4''	8'-4''	7'-7"	7'-0''
<sup>Ě</sup>			20	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''
en .		50	30	10'-0"	10'-0''	10'-0''	9'-9"	9'-0''
		30	40	10'-0''	10'-0''	9'-3''	8'-5"	7'-9''
			50	10'-0''	9'-4''	8'-4''	7'-7"	7'-0''

## **TABLE NOTES:**

- THESE SPANS CONSIDER A MAXIMUM OF 24" HIGH SOLID BOTTOM PANEL & 9" HEADER AREA. ALTERNATE CONFIGURATIONS REQUIRE ADDITIONAL ENGINEERING.
- DEFLECTION LIMIT = L/60 USED IN TABLE RESULTS.
- VALUES BELOW ALLOWABLE CEILING HEIGHT INTENDED TO BE BUILT ON KNEEWALLS OR OTHER SUPPORTING STRUCTURES (CERTIFIED BY OTHERS).
- RESULTS FOR THERMALLY BROKEN POSTS SHALL BE REDUCED BY 10% TO ACCOUNT FOR THERMAL BREAK STRENGTH LOSS.

# **TABLE 5 & 6:** OPEN WALL ALLOWABLE POST HEIGHT:

COLUMN	MAX ROOF	100	WIND LOAD	AVERAGE COLUMN SPACING W(FT)					
TYPE	SPAN S (FT)	GRAVITY (PSF)	(PSF)	3	4	5	6	7	
			20	10'-0"	10'-0''	10'-0"	10'-0''	10'-0''	
		20	30	10'-0"	10'-0''	10'-0"	10'-0"	10'-0''	
		20	40	10'-0"	10'-0''	10'-0"	10'-0''	10'-0''	
~			50	10'-0"	10'-0''	10'-0"	10'-0"	10'-0''	
ale	NIGII	Ž	20	10'-0"	10'-0''	10'-0''	10'-0''	10'-0''	
Fer	12	30	30	10'-0"	10'-0"	10'-0"	10'-0"	10'-0''	
± €			40	10'-0"	10'-0''	10'-0"	10'-0"	10'-0'	
<u> </u> a			50	10'-0"	10'-0''	10'-0"	10'-0''	10'-0'	
E		40	20	10'-0"	10'-0''	10'-0"	10'-0''	10'-0'	
00			30	10'-0"	10'-0''	10'-0"	10'-0"	10'-0'	
3" Mod Room (Male+ Female)			40	10'-0"	10'-0''	10'-0"	10'-0"	10'-0'	
Ĕ			50	10'-0"	10'-0''	10'-0''	10'-0"	10'-0'	
Ę.	1/4/1	\ / /	20	10'-0"	10'-0''	10'-0"	10'-0"	10'-0'	
	ДXI	<b>\</b>	30	10'-0"	10'-0''	10'-0''	10'-0"	10'-0'	
	N	50	40	10'-0''	10'-0''	10'-0"	10'-0"	10'-0'	
			50	10'-0"	10'-0''	10'-0''	10'-0"	10'-0''	

COLUMN	MAX ROOF		LIVE LOAD WIND LOAD		AVERAGE COLUMN SPACING W(FT)					
I IYPE I	SPAN S (FT)	(PSF)	(PSF)	3	4	5	6	7		
			20	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''		
		20	30	10'-0"	10'-0''	10'-0''	10'-0''	10'-0''		
<b>a</b>		20	40	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''		
Room (Male+ Female)			50	10'-0"	10'-0''	10'-0"	10'-0"	10'-0''		
퍨		30	20	10'-0"	10'-0''	10'-0''	10'-0"	10'-0''		
<u>=</u>			30	10'-0"	10'-0''	10'-0"	10'-0"	10'-0''		
<u>چ</u>			40	10'-0"	10'-0''	10'-0''	10'-0"	10'-0''		
E	12		50.	10'-0"	10'-0''	10'-0"	10'-0"	10'-0''		
§	112		20	10'-0''	10'-0''	10'-0"	10'-0"	10'-0''		
			30	10'-0"	10'-0''	10'-0"	10'-0"	10'-0''		
Σ .	EX		40	10'-0"	10'-0''	10'-0''	10'-0''	10'-0''		
Į			50	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''		
3" Thermo Mod			20	10'-0''	10'-0''	10'-0''	10'-0"	10'-0''		
m En		E0	30	10'-0"	10'-0''	10'-0''	10'-0"	10'-0''		
		50	40	10'-0"	10'-0''	10'-0"	10'-0"	10'-0''		
			50	10'-0"	10'-0''	10'-0"	10'-0"	10'-0''		

# VISIT ECALC.IO/STRUCTALL

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STRUCTALL BUILDING SYSTEMS

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