

Screen Room, Covered Patio Room, and

Pool Enclosure

"OPEN" Structures ONLY

Project Location 251 SW Deshaire St  
Project Name  
County Columbia  
Permit Number

DESIGN CRITERIA

Wind Velocity: 120 mph, 3 sec. gust  
130 mph, 3 sec. gust

Risk Category: I (FBC-2020 rev 7)

Enclosure Class.: "OPEN" or "ENCLOSED"

Wind Exposure Type: "B" or "C" (See tables)

Internal Pressure Coefficient: +/- 0.0 (Open)  
+/- 0.18 (Enclosed)

Applicable Sunroom Categories:  
I - Roof with screens  
II - Roof with enclosed walls (Non-conditioned)  
III - Roof with enclosed walls, forced entry protection, air-leakage and water resistant (Non-conditioned)  
IV - Type III + Conditioned  
\*Type V Category is not applicable for these plans

All construction shall be provided in accordance with the current recognized versions of the Florida Building Code, OSHA, AISC, ACI and ASCE codes as well as all applicable local requirements.

Base connections shall be provided as shown and shall be field adjusted on the basis of the manufacturer's requirements for actual soil type.

All materials identified by manufacturer name may be substituted with comparable materials that exceed or equal the specifications for the original material.

All field connections shall be #10 SMS or better, unless noted otherwise.

All Aluminum shall be Alloy 6065T5 and/or 6061T6 for horizontal and vertical framing members, except roof panels and Super Gutter, which are nonstructural to the manufacturer.

Post to Edge Purlin Connection

Scale: 3" = 12"

2 x 3 x 0.045" (Covered Patio Rooms)  
or 2 x 2 with 1 x 2 (Option)  
or 2 x 2 x 0.044" (Screen Only Rooms)

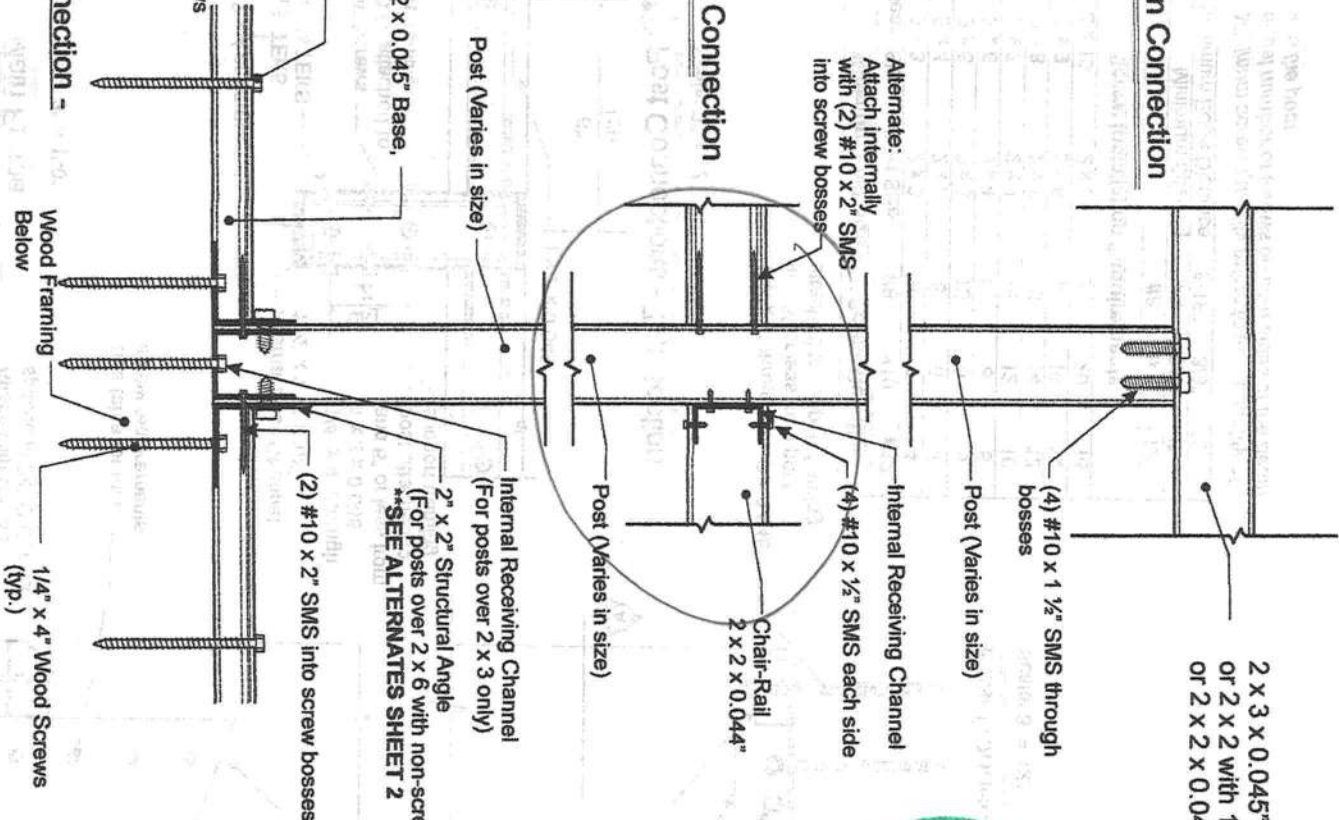
Post to Chair-Rail Connection

Scale: 3" = 12"

Post to Base Connection - Wood Decks

Scale: 3" = 1'-0"

\*\*See alternates Sheet 2



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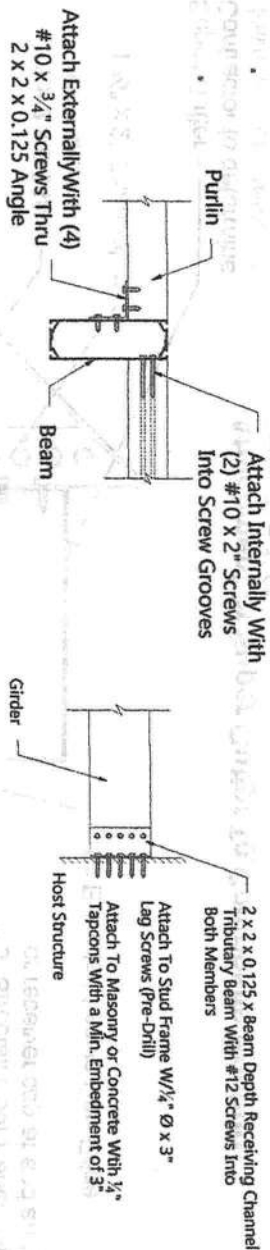
PROJECT: Aluminum Screen Enclosures - General Drawings			
TITLE: Details		SCALE: Varies	CLIENT:
File Name:	Revision Rv.	Date:	Description:
Drawn:			
Checked:			
Date:			





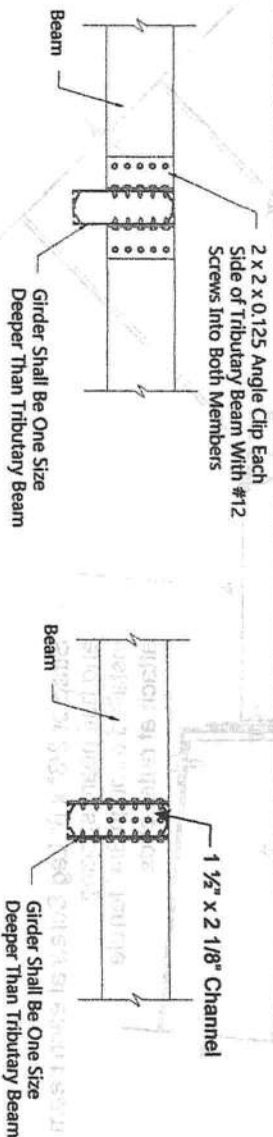
identical enabling requirements

*Minimum screw quantity refers to total quantity of equal number of screws on both sides of the beam into the post*



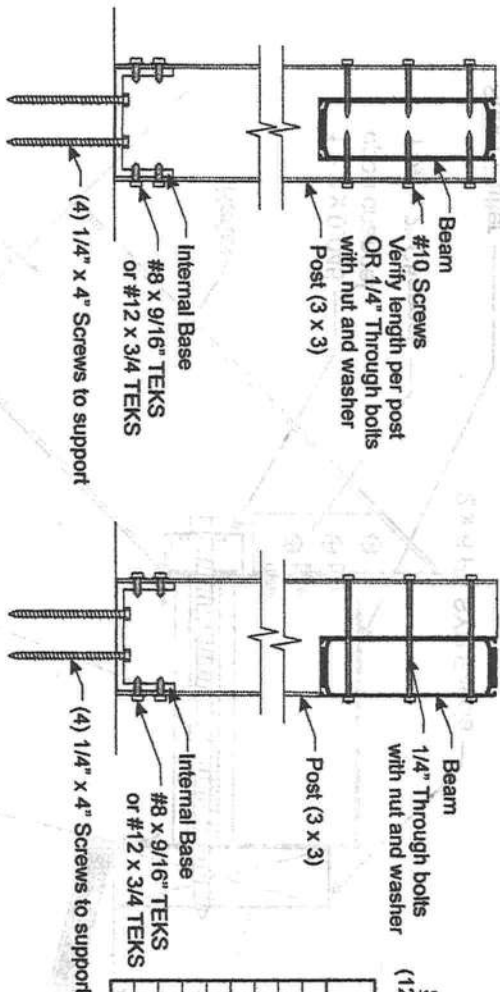
TYPICAL PURLIN AND BEAM DETAIL

TYPICAL GIRDER DETAIL TO HOST WALL



TYPICAL BEAM AND GIRDER DETAIL

ALTERNATE TYPICAL BEAM AND GIRDER DETAIL



Allowable Post Heights For Square Posts (Screen Rooms) (120 mph, 3 second gust wind loads)

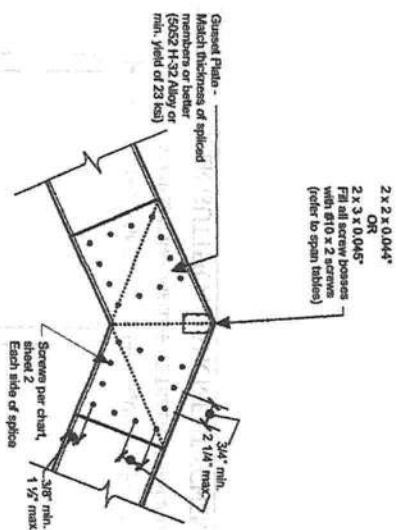
Area ft²	Allowable Height 3x3x0.04	Allowable Height 3x3x0.06
75	14'-9"	18'-2"
100	13'-3"	16'-11"
125	11'-11"	15'-9"
150	10'-9"	14'-8"
175	9'-8"	13'-8"
200	8'-8"	12'-9"
225	7'-10"	11'-11"
250	7'-0"	11'-1"
275	6'-4"	10'-4"

Post Connections - Saddled Beam

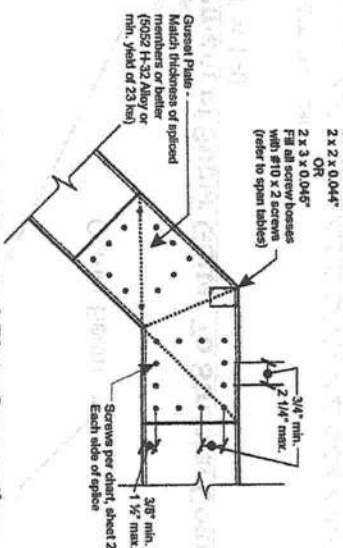
Post Connections - End Mount

Scale: NTS

Scale: NTS



Scale: 1 1/2" = 1'-0"



Typical Mansard Plate Connection

Scale: 1 1/2" = 1'-0"

Typical Roof Peak Plate Connection

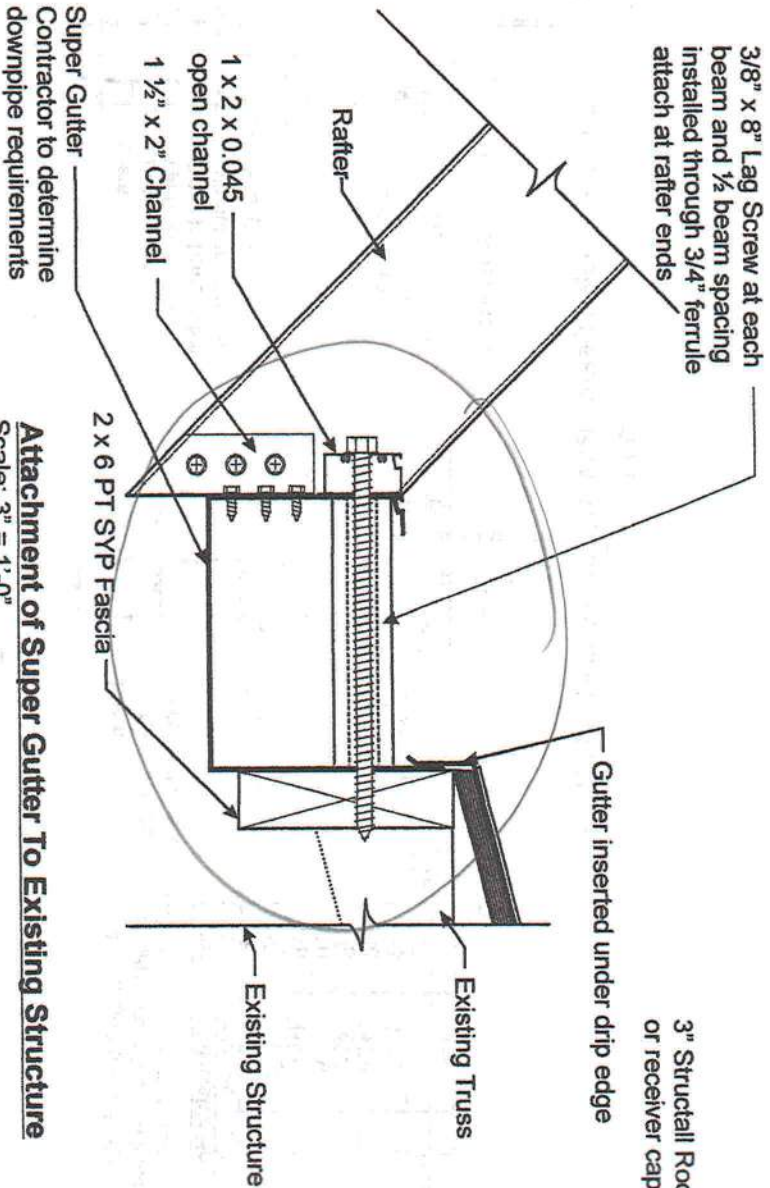
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PROJECT:	Aluminum Screen Enclosures - General Drawings
TITLE:	Details
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CLIENT:	
File Name:	
Revised:	YES
Revised:	YES
Revised:	YES
Date:	03/15/20

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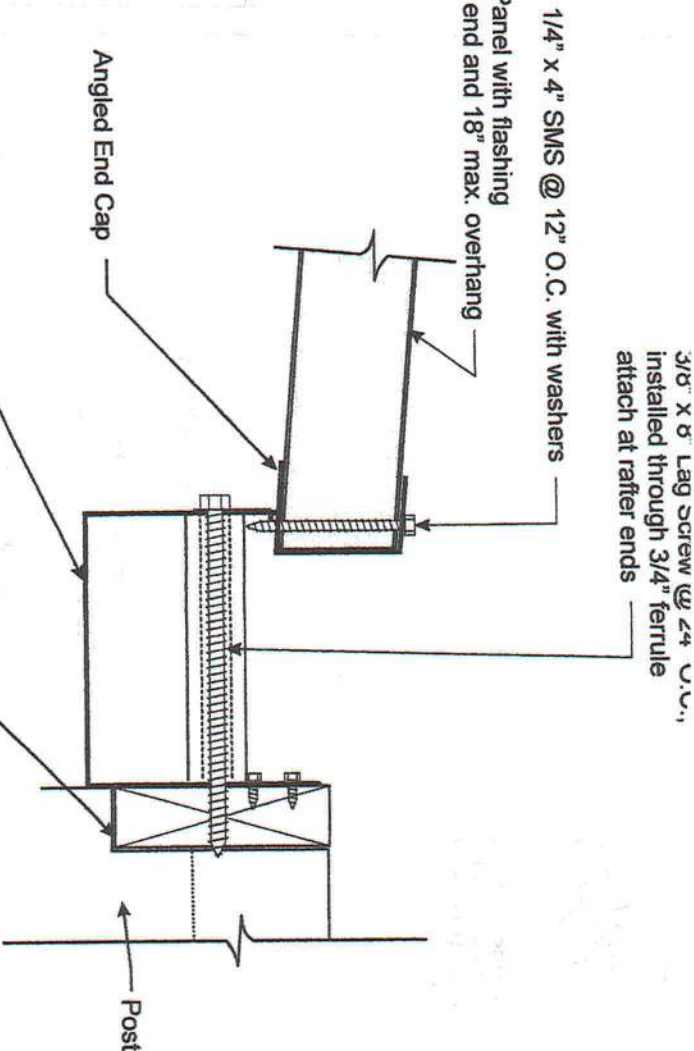
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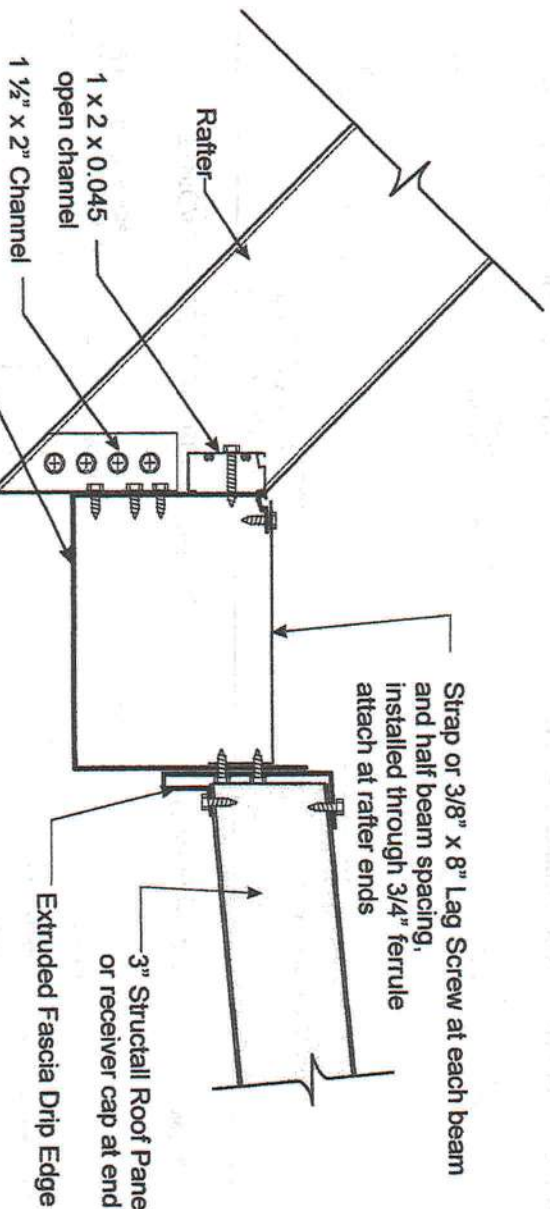
Super Gutter  
Contractor to determine  
downpipe requirements

**Attachment of Super Gutter To Existing Structure**  
Scale: 3" = 1'-0"



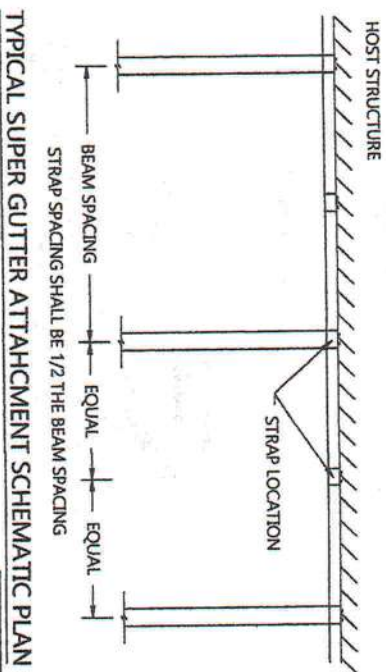
Super Gutter  
Contractor to determine  
downpipe requirements

**Attachment of Super Gutter To Structural Composite Panels**  
Scale: 3" = 1'-0"



Super Gutter  
Contractor to determine  
downpipe requirements

**Attachment of Super Gutter To Composite Roofing**  
Scale: 3" = 1'-0"



**TYPICAL SUPER GUTTER ATTACHMENT SCHEMATIC PLAN**

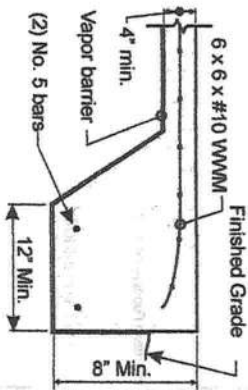
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LICENSE #651870  
11/8/19

PROJECT: Aluminum Screen Enclosures - General Drawings		SCALE: Varies		CLIENT:	
TITLE: Details		Revision By:		Date:	
File Name:		Description:			
Designed:					
Drawn:					
Checked:					
Date:					

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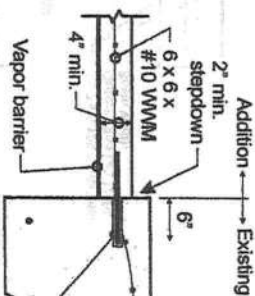
### Typical Foundation Details

(When no expansive clays present)

N.T.S.

\*Design based on assumed 1500 psf bearing capacity of soil

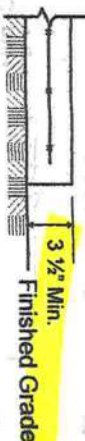
\*\*When expansive clays are shown to be present from soil boring logs, a specialty foundation is required to be designed by a professional engineer.



### Connection to Existing Foundation

N.T.S.

12\"/>



### Typical Flat Slab Detail

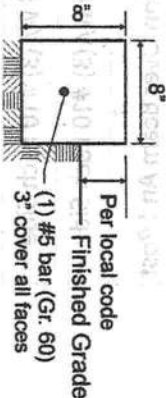
(When no expansive clays present)

N.T.S.

#### SCREEN ROOMS ONLY

Requirements for Flat Slab Detail:

- 1 - Concrete to be 2500 psi min.
- 2 - Reinforcement to be either 6 x 6 #10 WMM or Fiber-Mesh (must be verified for existing slabs on grade)
- 3 - Slope along perimeter of slab to be maximum of 1\"/>
- 4 - Maximum projection of slab beyond host structure to be 20\"/>
- 5 - Local ordinances may require a minimum footing, verify with local authority.



### Typical 8\"/>

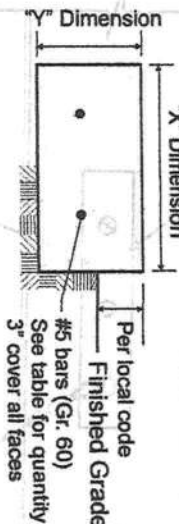
(When no expansive clays present)

N.T.S.

#### SCREEN ROOMS ONLY

Requirements for 8\"/>

- 1 - Concrete to be 2500 psi min.
- 2 - Slope along perimeter of footing to be maximum of 2\"/>
- 3 - Maximum projection of slab beyond host structure to be 16\"/>



### Typical Alternate Ribbon Footing

(When no expansive clays present)

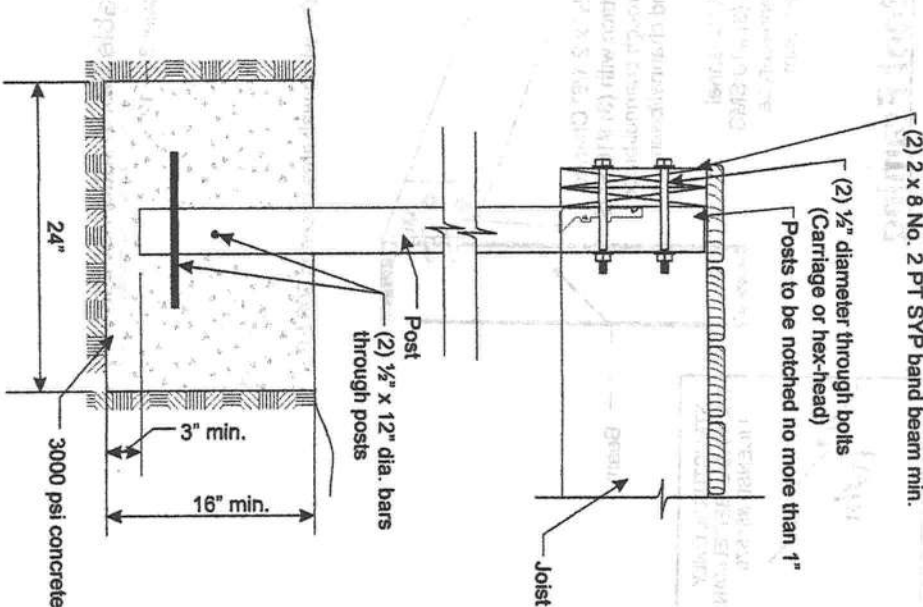
N.T.S.

#### SCREEN ROOMS ONLY

Requirements for Alternate Ribbon Footing:

- 1 - Concrete to be 2500 psi min.
- 2 - Applicable where slope and or span exceed flat slab and 8\"/>
- 3 - See table below for allowable room spans in wind zones up to 120 mph, 3 sec. gust winds.

"X" (in.)	"Y" (in.)	No. bars	Max. Projection (ft.)
8	12	1	22'-6"
12	8	1	24'-0"
12	12	2	24'-8"
16	12	2	38'-10"
18	12	2	38'-0"
24	12	3	48'-4"



### Deck Post Support Requirements

Scale: N.T.S.

Notes:  
Design assumes a minimum soil bearing strength = 1500 psf

Note: Use 4 x 4 Posts for clear heights up to 4'-0\"/>

\*\*6 x 6 Posts over 6'-0\"/>

Beam Size	Beam Span/ Post Spacing	Maximum Joist Span (ft)
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(2) 2 x 8	8	Up to 10'-0"
(2) 2 x 8	6	Up to 14'-0"
(2) 2 x 10	8	Up to 14'-0"
(2) 2 x 12	8	Up to 14'-0"

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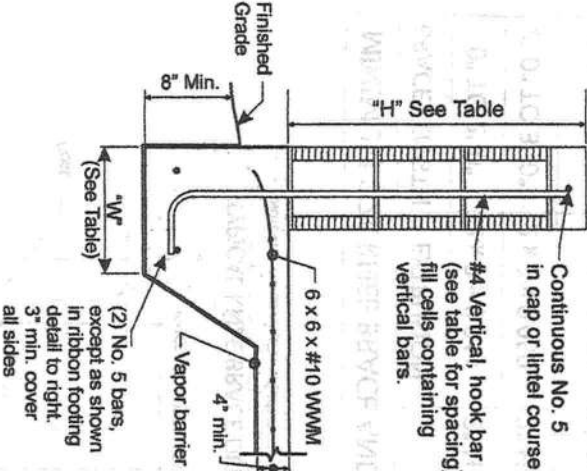
PROJECT: Aluminum Screen Enclosures - General Drawings		CLIENT:	
TITLE: Details		SCALE: Various	
File Name:	Revision By:	Date:	Description:
Described: TEB			
Drawn: TEB			
Checked: TEB			
Date:	03/15/20		

"H" (in.)	"W" (in.)	Vertical Bar Spacing
40	12	8'-0"
56	18	4'-0"
64	24	2'-8"

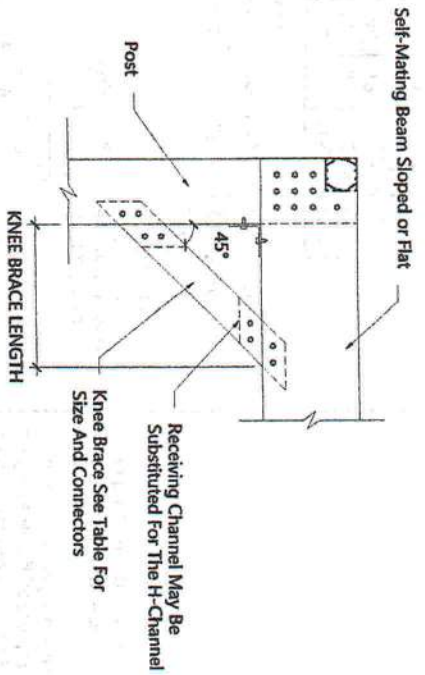
### Typical Knee-Wall Detail

(When no expansive clays present)

N.T.S.





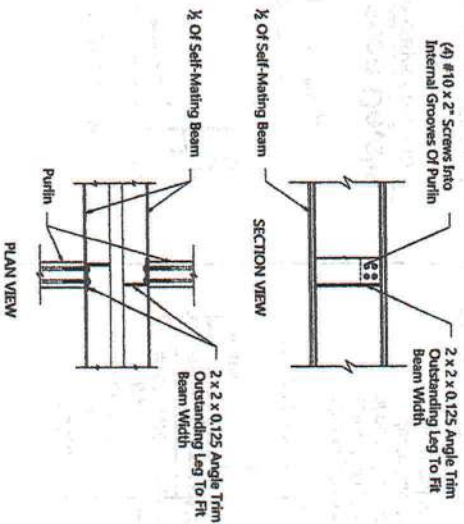


### TYPICAL KNEE BRACE DETAIL AND SCHEDULE

NOTE: KNEE BRACES ARE NOT REQUIRED FOR THE TABULATED SPANS.

MINIMUM SIZE KNEE BRACE AND CONNECTION			
BRACE LENGTH	EXTRUSION	CONNECTION	
0" TO 2'-0"	2 x 2 x 0.044	2" H-Channel w/ (3) #10 Each Side	
2'-0" TO 3'-0"	2 x 3 x 0.050	2" H-Channel w/ (3) #10 Each Side	
3'-0" TO 4'-6"	2 x 4 x 0.044	Notch Extrusion Over Beam And Post And Attach w/ (4) #10 Each Side	

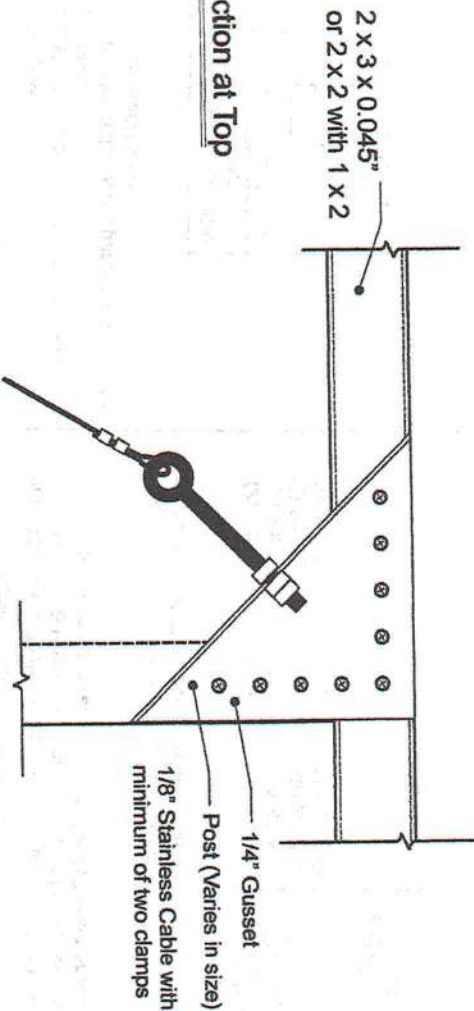
NOTE: ALLOWABLE ROOF BEAM SPANS MAY BE INCREASED BY THE KNEE BRACE LENGTH IF BRACES ARE ON BOTH ENDS OF THE SPAN. FOR KNEE BRACE ON ONE END ONLY, AN INCREASE OF 1/2 THE KNEE BRACE LENGTH IS ALLOWED.



TYPICAL INTERNAL STIFFENING DETAIL FOR SPANS GREATER THAN 39'-0"

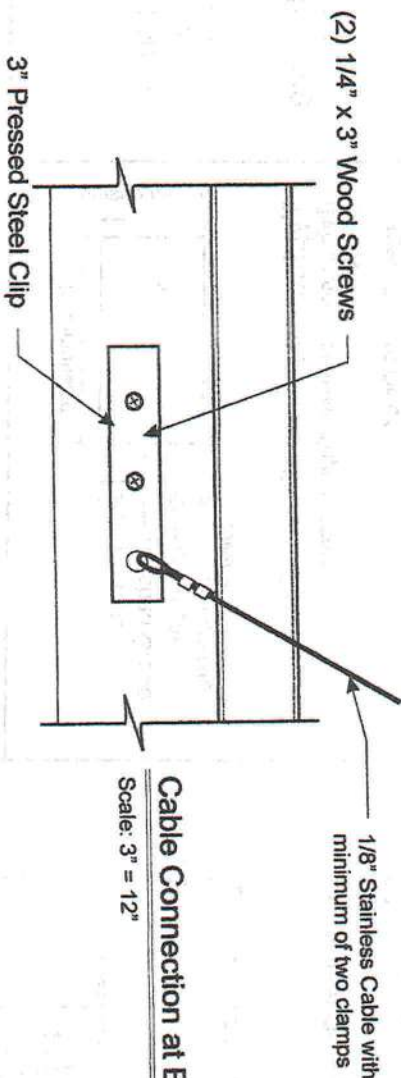
### Cable Connection at Top

Scale: 3" = 12"

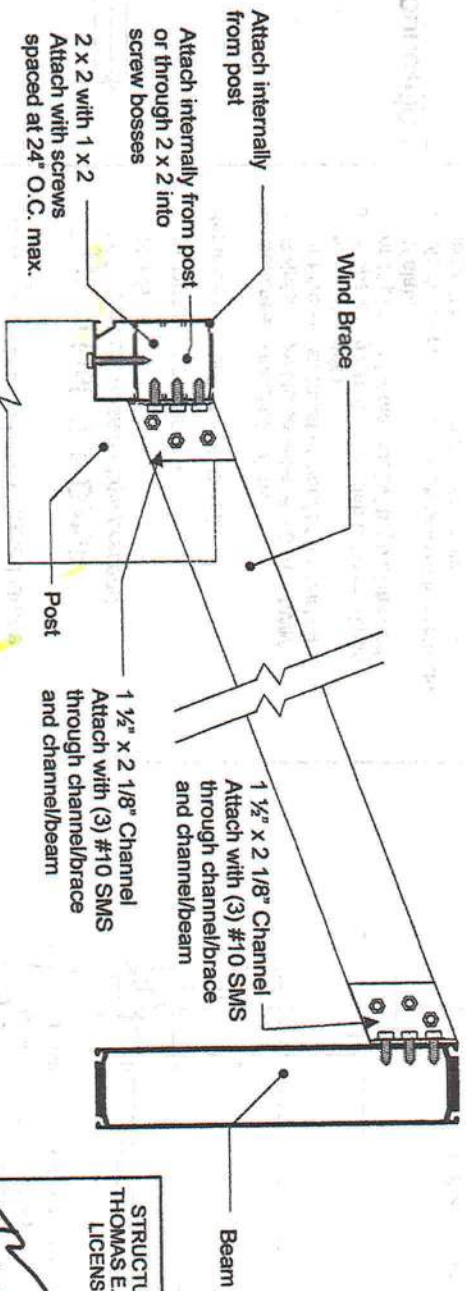


### Cable Connection at Bottom

Scale: 3" = 12"



\*Install cables in pairs per 200 SF tributary area of walls, when wall area exceeds 200 SF



### Typical Wind Brace Detail at Roof Framing

Required for rooms extending beyond 12'-0" from host structure

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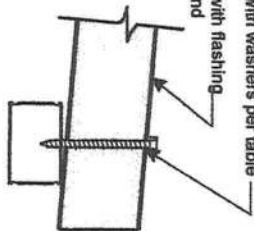
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LICENSE #51870

11/1/11

PROJECT: Aluminum Screen Enclosures - General Drawings			
TITLE: Details	SCALE: Varies	CLIENT:	
File Name:	Revision By:	Date:	Description:
Drawn: TEB			
Checked: TEB			
Date: 03/15/20			

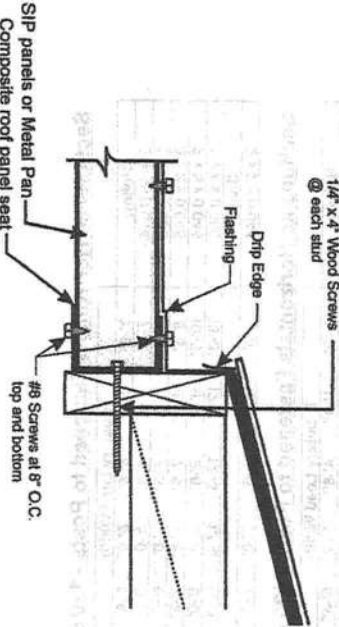
No.	Sheet	6	of	8
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1/4" SMS with washers per table  
3" Structural Roof Panel with flashing  
or receiver cap at end and  
24" max. overhang



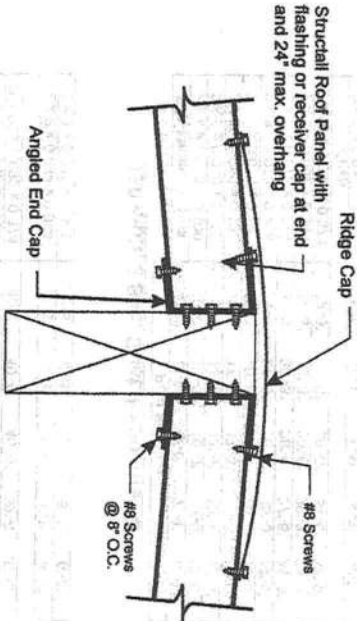
### Attachment of Composite Roof Panel To Aluminum

Scale: 2" = 1'-0"



### Attachment of Composite Roof Panel To Existing Structure

Scale: 2" = 1'-0"



### Attachment of Structural Composite Panels at Ridge

Scale: 3" = 1'-0"

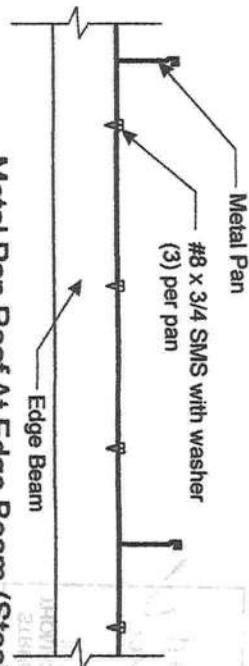
120 mph, 3 Sec. Gust, Exposure "B"		
Panel Thickness	Max. Span	Fastener Spacing
3" x 0.240	16'-7"	10"
3" x 0.030	19'-6"	9"
3" x 26 Ga.	19'-6"	8"
4" x 0.240	18'-2"	10"
4" x 0.030	20'-11"	9"
4" x 26 Ga.	21'-5"	8"
6" x 0.240	22'-7"	10"
6" x 0.030	26'-1"	9"
6" x 26 Ga.	26'-9"	8"

130 mph, 3 Sec. Gust, Exposure "B"		
Panel Thickness	Max. Span	Fastener Spacing
3" x 0.240	16'-2"	8"
3" x 0.030	18'-11"	7 1/2"
3" x 26 Ga.	19'-0"	6 1/2"
4" x 0.240	16'-9"	8"
4" x 0.030	19'-4"	7 1/2"
4" x 26 Ga.	19'-9"	6 1/2"
6" x 0.240	20'-10"	8"
6" x 0.030	23'-11"	7 1/2"
6" x 26 Ga.	24'-8"	6 1/2"

### Span Tables and Fastener Spacing Specifications APPLICABLE TO STRUCTURAL SNAP N LOCK SYSTEM ONLY

Notes:

- 1 - Min. Roof Slope per FBC-2020 Rev 7
- 2 - Span is measured from center to center of supporting members
- 3 - Fasteners must be installed a minimum of 2 1/2" from end of panel and include 1 1/2" diameter x 0.4" thick washers



### Metal Pan Roof At Edge Beam (Steel Pans)

Scale: NTS

#### Allowable Spans For 3" Rib Riser Metal Pans

"Screen Rooms Only"

(120 mph, 3 second gust wind loads)

Exposure Category	Allowable Spans	
	B	C
0.024" Thickness	13'-1"	11'-1"
0.030" Thickness	14'-1"	11'-11"

#### Allowable Spans For 3" Rib Riser Metal Pans

"Screen Rooms Only"

(130 mph, 3 second gust wind loads)

Exposure Category	Allowable Spans	
	B	C
0.024" Thickness	12'-6"	10'-7"
0.030" Thickness	13'-6"	11'-5"

#### Allowable Spans For 3" Rib Riser Metal Pans

"Open Structures Only"

(120 mph, 3 second gust wind loads)

Exposure Category	Allowable Spans	
	B	C
0.024" Thickness	14'-6"	12'-3"
0.030" Thickness	15'-8"	13'-3"

#### Allowable Spans For 3" Rib Riser Metal Pans

"Open Structures Only"

(130 mph, 3 second gust wind loads)

Exposure Category	Allowable Spans	
	B	C
0.024" Thickness	13'-8"	11'-7"
0.030" Thickness	14'-9"	12'-6"

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PROJECT: Aluminum Screen Enclosures - General Drawings

TITLE: Details

SCALE: Varies

CLIENT:

File Name:  
Designed: YES  
Drawn: YES  
Checked: YES  
Date: 09/15/20

Revision By: Date: Description:

Sheet 7 of 8



Allowable Spans for Screen Enclosure Gable, Hip and Half Mansard Roof Beams

\*For half-mansard roofs increase table span by 10%, for full-mansard roofs increase table span by 20%  
\*\*For 18 x 14 x 0.013 Screen, spans are permitted to be increased by 5%

120 mph, 3 Sec. Gust, Exposure "B"

Self-Mating Beams	4'-0"	6'-0"	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"	28'-0"	30'-0"	32'-0"	34'-0"	36'-0"	38'-0"	40'-0"
2 x 4 x 0.046 x 0.100	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2 x 4 x 0.050 x 0.116	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2 x 4 x 0.055 x 0.120	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2 x 4 x 0.060 x 0.120	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2 x 4 x 0.065 x 0.120	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2 x 4 x 0.072 x 0.224	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2 x 4 x 0.082 x 0.306	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2 x 10 x 0.092 x 0.374	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
Snaps	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2 x 2 x 0.044 x 0.044	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"
2 x 3 x 0.045 x 0.045	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"

130 mph, 3 Sec. Gust, Exposure "B"

Self-Mating Beams	4'-0"	6'-0"	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"	28'-0"	30'-0"	32'-0"	34'-0"	36'-0"	38'-0"	40'-0"
2 x 4 x 0.046 x 0.100	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2 x 4 x 0.050 x 0.116	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2 x 4 x 0.055 x 0.120	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2 x 4 x 0.060 x 0.120	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2 x 4 x 0.065 x 0.120	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2 x 4 x 0.072 x 0.224	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2 x 4 x 0.082 x 0.306	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2 x 10 x 0.092 x 0.374	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
Snaps	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2 x 2 x 0.044 x 0.044	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"
2 x 3 x 0.045 x 0.045	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"

Allowable Spans For Screen Enclosure Posts with Wind Speeds up to 120 mph, 3 sec. Gust and Exposure "B"

Self-Mating	4'-0"	6'-0"	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"	28'-0"	30'-0"	32'-0"	34'-0"	36'-0"	38'-0"	40'-0"
2 x 4 x 0.046 x 0.100	12'-0"	11'-0"	10'-0"	9'-3"	8'-6"	8'-0"	7'-3"	6'-6"	6'-0"	5'-3"	4'-6"	4'-0"	3'-3"	2'-6"	2'-0"	1'-3"	0'-6"	0'-0"	0'-0"
2 x 5 x 0.050 x 0.116	14'-6"	13'-6"	12'-6"	11'-6"	10'-6"	9'-6"	8'-6"	7'-6"	6'-6"	5'-6"	4'-6"	3'-6"	2'-6"	1'-6"	0'-6"	0'-0"	0'-0"	0'-0"	0'-0"
2 x 6 x 0.055 x 0.120	16'-0"	14'-6"	13'-6"	12'-6"	11'-6"	10'-6"	9'-6"	8'-6"	7'-6"	6'-6"	5'-6"	4'-6"	3'-6"	2'-6"	1'-6"	0'-6"	0'-0"	0'-0"	0'-0"
2 x 7 x 0.065 x 0.120	17'-0"	15'-6"	14'-6"	13'-6"	12'-6"	11'-6"	10'-6"	9'-6"	8'-6"	7'-6"	6'-6"	5'-6"	4'-6"	3'-6"	2'-6"	1'-6"	0'-6"	0'-0"	0'-0"
2 x 8 x 0.072 x 0.224	18'-0"	16'-6"	15'-6"	14'-6"	13'-6"	12'-6"	11'-6"	10'-6"	9'-6"	8'-6"	7'-6"	6'-6"	5'-6"	4'-6"	3'-6"	2'-6"	1'-6"	0'-6"	0'-0"
2 x 9 x 0.082 x 0.306	18'-0"	16'-6"	15'-6"	14'-6"	13'-6"	12'-6"	11'-6"	10'-6"	9'-6"	8'-6"	7'-6"	6'-6"	5'-6"	4'-6"	3'-6"	2'-6"	1'-6"	0'-6"	0'-0"
2 x 10 x 0.092 x 0.374	19'-0"	17'-6"	16'-6"	15'-6"	14'-6"	13'-6"	12'-6"	11'-6"	10'-6"	9'-6"	8'-6"	7'-6"	6'-6"	5'-6"	4'-6"	3'-6"	2'-6"	1'-6"	0'-0"
Snaps	19'-0"	17'-6"	16'-6"	15'-6"	14'-6"	13'-6"	12'-6"	11'-6"	10'-6"	9'-6"	8'-6"	7'-6"	6'-6"	5'-6"	4'-6"	3'-6"	2'-6"	1'-6"	0'-0"
2 x 2 x 0.044	7'-0"	6'-6"	6'-0"	5'-6"	5'-0"	4'-6"	4'-0"	3'-6"	3'-0"	2'-6"	2'-0"	1'-6"	1'-0"	0'-6"	0'-0"	0'-0"	0'-0"	0'-0"	0'-0"
2 x 3 x 0.05 x 0.05	9'-0"	8'-0"	7'-3"	6'-6"	6'-0"	5'-3"	4'-6"	4'-0"	3'-6"	3'-0"	2'-6"	2'-0"	1'-6"	1'-0"	0'-6"	0'-0"	0'-0"	0'-0"	0'-0"

Allowable Spans For Screen Enclosure Posts with Wind Speeds up to 130 mph, 3 sec. Gust and Exposure "B"

Self-Mating	4'-0"	6'-0"	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"	28'-0"	30'-0"	32'-0"	34'-0"	36'-0"	38'-0"	40'-0"
2 x 4 x 0.046 x 0.100	11'-3"	10'-0"	9'-0"	8'-6"	8'-0"	7'-3"	6'-6"	6'-0"	5'-3"	4'-6"	4'-0"	3'-3"	2'-6"	2'-0"	1'-3"	0'-6"	0'-0"	0'-0"	0'-0"
2 x 5 x 0.050 x 0.116	13'-6"	12'-6"	11'-6"	10'-6"	9'-6"	8'-6"	7'-6"	6'-6"	5'-6"	4'-6"	3'-6"	2'-6"	1'-6"	0'-6"	0'-0"	0'-0"	0'-0"	0'-0"	0'-0"
2 x 6 x 0.055 x 0.120	14'-0"	12'-6"	11'-6"	10'-6"	9'-6"	8'-6"	7'-6"	6'-6"	5'-6"	4'-6"	3'-6"	2'-6"	1'-6"	0'-6"	0'-0"	0'-0"	0'-0"	0'-0"	0'-0"
2 x 7 x 0.065 x 0.120	15'-0"	13'-6"	12'-6"	11'-6"	10'-6"	9'-6"	8'-6"	7'-6"	6'-6"	5'-6"	4'-6"	3'-6"	2'-6"	1'-6"	0'-6"	0'-0"	0'-0"	0'-0"	0'-0"
2 x 8 x 0.072 x 0.224	16'-0"	14'-6"	13'-6"	12'-6"	11'-6"	10'-6"	9'-6"	8'-6"	7'-6"	6'-6"	5'-6"	4'-6"	3'-6"	2'-6"	1'-6"	0'-6"	0'-0"	0'-0"	0'-0"
2 x 9 x 0.082 x 0.306	16'-0"	14'-6"	13'-6"	12'-6"	11'-6"	10'-6"	9'-6"	8'-6"	7'-6"	6'-6"	5'-6"	4'-6"	3'-6"	2'-6"	1'-6"	0'-6"	0'-0"	0'-0"	0'-0"
2 x 10 x 0.092 x 0.374	17'-0"	15'-6"	14'-6"	13'-6"	12'-6"	11'-6"	10'-6"	9'-6"	8'-6"	7'-6"	6'-6"	5'-6"	4'-6"	3'-6"	2'-6"	1'-6"	0'-6"	0'-0"	0'-0"
Snaps	17'-0"	15'-6"	14'-6"	13'-6"	12'-6"	11'-6"	10'-6"	9'-6"	8'-6"	7'-6"	6'-6"	5'-6"	4'-6"	3'-6"	2'-6"	1'-6"	0'-6"	0'-0"	0'-0"
2 x 2 x 0.044	6'-6"	6'-0"	5'-3"	5'-0"	4'-6"	4'-0"	3'-6"	3'-0"	2'-6"	2'-0"	1'-6"	1'-0"	0'-6"	0'-0"	0'-0"	0'-0"	0'-0"	0'-0"	0'-0"
2 x 3 x 0.05 x 0.05	7'-6"	6'-9"	6'-0"	5'-3"	4'-6"	4'-0"	3'-6"	3'-0"	2'-6"	2'-0"	1'-6"	1'-0"	0'-6"	0'-0"	0'-0"	0'-0"	0'-0"	0'-0"	0'-0"

Sections as Horizontals Fastened to Posts - 120 mph, 3 Sec. gust, Exposure B

Hollow	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"
2 x 2 x 0.044	7'-3"	7'-0"	6'-6"	6'-3"	6'-0"	5'-6"	5'-3"	5'-0"	4'-6"	4'-3"	4'-0"	3'-6"	3'-3"	3'-0"	2'-6"	2'-3"	2'-0"	1'-6"	1'-3"
2 x 2 x 0.055	7'-9"	7'-6"	7'-3"	7'-0"	6'-6"	6'-3"	6'-0"	5'-6"	5'-3"	5'-0"	4'-6"	4'-3"	4'-0"	3'-6"	3'-3"	3'-0"	2'-6"	2'-3"	2'-0"
2 x 2 x 0.045	8'-3"	8'-0"	7'-6"	7'-3"	7'-0"	6'-6"	6'-3"	6'-0"	5'-6"	5'-3"	5'-0"	4'-6"	4'-3"	4'-0"	3'-6"	3'-3"	3'-0"	2'-6"	2'-3"
2 x 2 x 0.050	10'-3"	9'-9"	9'-6"	9'-3"	9'-0"	8'-6"	8'-3"	8'-0"	7'-6"	7'-3"	7'-0"	6'-6"	6'-3"	6'-0"	5'-6"	5'-3"	5'-0"	4'-6"	4'-3"
Snaps	13'-3"	12'-9"	12'-6"	12'-3"	12'-0"	11'-6"	11'-3"	11'-0"	10'-6"	10'-3"	10'-0"	9'-6"	9'-3"	9'-0"	8'-6"	8'-3"	8'-0"	7'-6"	7'-3"
2 x 2 x 0.044	8'-3"	8'-0"	7'-6"	7'-3"	7'-0"	6'-6"	6'-3"	6'-0"	5'-6"	5'-3"	5'-0"	4'-6"	4'-3"	4'-0"	3'-6"	3'-3"	3'-0"	2'-6"	2'-3"

Sections as Horizontals Fastened to Posts - 120 mph, 3 Sec. gust, Exposure C

Hollow	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"
2 x 2 x 0.044	6'-9"	6'-6"	6'-3"	6'-0"	5'-6"	5'-3"	5'-0"	4'-6"	4'-3"	4'-0"	3'-6"	3'-3"	3'-0"	2'-6"	2'-3"	2'-0"	1'-6"	1'-3"	1'-0"
2 x 2 x 0.055	7'-0"	6'-9"	6'-6"	6'-3"	6'-0"	5'-6"	5'-3"	5'-0"	4'-6"	4'-3"	4'-0"	3'-6"	3'-3"	3'-0"	2'-6"	2'-3"	2'-0"	1'-6"	1'-3"
2 x 2 x 0.045	7'-6"	7'-3"	7'-0"	6'-6"	6'-3"	6'-0"	5'-6"	5'-3"	5'-0"	4'-6"	4'-3"	4'-0"	3'-6"	3'-3"	3'-0"	2'-6"	2'-3"	2'-0"	1'-6"
2 x 2 x 0.050	9'-6"	9'-0"	8'-6"	8'-3"	8'-0"	7'-6"	7'-3"	7'-0"	6'-6"	6'-3"	6'-0"	5'-6"	5'-3"	5'-0"	4'-6"	4'-3"	4'-0"	3'-6"	3'-3"
Snaps	12'-3"	11'-9"	11'-6"	11'-3"	11'-0"	10'-6"	10'-3"	10'-0"	9'-6"	9'-3"	9'-0"	8'-6"	8'-3"	8'-0"	7'-6"	7'-3"	7'-0"	6'-6"	6'-3"
2 x 2 x 0.044	7'-6"	7'-3"	7'-0"	6'-6"	6'-3"	6'-0"	5'-6"	5'-3"	5'-0"	4'-6"	4'-3"	4'-0"	3'-6"	3'-3"	3'-0"	2'-6"	2'-3"	2'-0"	1'-6"

Allowable Spans For Screen Enclosure Carrier Beams - 120 mph, 3 sec. gust, Exposure C

Single Self-Mating Beams	10'-0"	14'-0"	18'-0"	22'-0"	26'-0"	30'-0"	34'-0"	38'-0"	42'-0"	46'-0"	50'-0"	54'-0"	58'-0"	62'-0"	66'-0"	70'-0"	74'-0"	78'-0"	82'-0"	86'-0"	90'-0"	94'-0"	98'-0"	102'-0"	106'-0"	110'-0"	114'-0"	118'-0"	122'-0"	126'-0"	130'-0"	134'-0"	138'-0"	142'-0"	146'-0"	150'-0"	154'-0"	158'-0"	162'-0"	166'-0"	170'-0"	174'-0"	178'-0"	182'-0"	186'-0"	190'-0"	194'-0"	198'-0"	202'-0"	206'-0"	210'-0"	214'-0"	218'-0"	222'-0"	226'-0"	230'-0"	234'-0"	238'-0"	242'-0"	246'-0"	250'-0"	254'-0"	258'-0"
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