

Design Check List for Glass Rooms (page 1 of 2)

1. Design Statement

These plans have been designed in accordance with the Aluminum Structures Design Manual by Lawrence E. Bennett and comply with the Florida Building Code, 2004 Edition, Chapter 20 and ASCE 7-98, Table 6-2; Importance Factor 1.00; Exposure 'B' or 'C' ; 120 MPH or _____ MPH for 3 second wind gust velocity load; Partially Enclosed or Enclosed; Door & window design pressures can be found on page 3-70:
 a. 'B' exposure = _____ PSF for Roofs & _____ PSF for Walls
 b. 'C' exposure = _____ PSF for Roofs & _____ PSF for Walls
 Negative I.P.C. 0.18 for Enclosed or 0.55 for partially enclosed
 For 'C' exposure design loads, multiply 'B' exposure loads by mean roof height multiplier:
2. Host Structure Adequacy Statement:
 I certify that I have inspected the host structure and it is in good repair and attachments made to the structure will be solid.

Contractor / Authorized Rep. ** Name (please print) _____ Phone: _____

Contractor / Authorized Rep. ** Signature _____ Date: _____

Note: Projection of room from host structure shall not exceed 16'.

3. Building Permit Application Package contains the following:

- A. Project name & address on plans Yes No
- B. Site plan or survey with enclosure location
- C. Contractor's / Designer's name, address, phone number, & signature on plans
- D. Notice of consumer rights attached and initialed by consumer
- E. Proposed project layout drawing @ 1/8" or 1/10" scale with the following:
 - 1. Plan view with host structure area of attachment, enclosure length, and projection from host structure
 - 2. Front and side elevation views with all dimensions & heights
 - 3. Beam span, spacing, & size (i.e. 2" x 8" x 0.072" x 0.224")
 - 4. Upright height, spacing, & size (i.e. 2" x 8" x 0.072" x 0.224")
 - 5. Chair rail or girts size, length, & spacing (i.e. 2" x 2" x 0.044" x 5'-0" @ 6'-0" O.C.)
 - 6. Knee braces length, location, & size (i.e. 2" x 3" x 0.045" for 2" x 8" x 0.072" x 0.224" s.m.b.)

4. Highlight details from Aluminum Structures Design Manual:

- A. Beam & purlin tables w/ sizes, thickness, spacing, & spans / lengths. Indicate Section 3 tables used: Yes No

Beam allowable span conversions from 120 MPH wind zone, 'B' Exposure to _____ MPH wind zone and/or 'C' Exposure for load width _____.
 Look up span on 120 MPH table and apply the following formula:
 Span / Height @ 120 MPH Required Span @ _____ MPH

Wind Zone Multiplier * _____ Exposure Multiplier *
 B. Upright tables w/ sizes, thickness, spacing, & heights (Tables 3B.2.1, 3B.2.2, or 3B.2.3) _____

Upright or wall member allowable height / span conversions from 120 MPH wind zone, 'B' Exposure to _____ MPH wind zone and/or 'C' Exposure for load width _____.
 Look up span on 120 MPH table and apply the following formula:
 Span / Height @ 120 MPH Required Span @ _____ MPH

Wind Zone Multiplier * _____ Exposure Multiplier * _____

* Appropriate multiplier from page 3-ii.
 ** Must have attended Engineer's Continuing Education Class with in past two years.

Design Check List for Glass Rooms (page 2 of 2)

- C. Table 3B.3 with beam & upright combination if applicable. Yes No
- D. Connection details to be used such as:
 - 1. Beam to upright.
 - 2. Beam to wall.
 - 3. Beam to beam.
 - 4. Chair rail, purlins, & knee braces to beams & uprights.
 - 5. Extruded gutter connection.
 - 6. U-drip, angles and/or sole plate to deck.
 - E. Raised slabs and / or foundation detail type & size.

Notes:

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SITE SPECIFIC JOB CHECK LIST

- Date: _____
- 1. Job name and address: _____
 - 2. Your company name and address. You must include a physical address so we can send it back via UPS.

 - 3. Briefly describe any information relevant to the job. _____

 - 4. The drawings must have the following minimum standards:
 - a. Job name and address, your address **ON ALL PAGES OF PLAN**
 - b. Plan view with dimensions **TO SCALE**.
 - c. Section view or front and side elevations to 1/4" = 1' **SCALE**. (1/8" or 1/10" for pool enclosures.)
 Gable & mansard side walls shall include the roof vertical rise and length.
 - d. Provide attachment details on drawing.
 - e. Wall sections at typical wall and any beam bearing points.
 - f. Street map with job location.
 - g. Wind zone _____ m.p.h. and exposure category B _____ or C _____ (From Building Department.)
 - h. Complete Design Checklist. Copies are in the back of the manual.

General Notes and Specifications:

- The following structures are designed to be married to block and wood frame structures of adequate structural capacity. The contractor / home owner shall verify that the host structure is in good condition and of sufficient strength to hold the proposed addition.
- If there is a question about the host structure, the owner (at his own expense) shall hire an architect, engineer, or a certified home inspection company to verify host structure capacity.
- The structures designed using this section shall be limited to a maximum projection of 16' from the host structure. Freestanding structures shall be limited to the maximum spans and size limits of component parts. Larger than these limits shall have site specific engineering.
- The following rules apply to attachments involving mobile and manufactured homes:
 - Structures to be placed adjacent to a mobile / manufactured home built prior to 1994 shall use "fourth wall construction" or the contractor / home owner shall provide detailed plans of the mobile / manufactured home and inspection report along with addition plans for site specific review and seal by the engineer. This applies to all screen / glass rooms and / or structures to be attached.
 - "Fourth wall construction" means the addition shall be free standing with only the roof flashing of the two units being attached. The most common "fourth wall construction" is a post & beam frame adjacent to the mobile / manufactured home. The same span tables can be used as for the front wall beam. For fourth wall beam use the carrier beam table. The post shall be sized according to this manual and/or as a minimum be a 2" x 3" x 0.050" with an 18" x 2" x 0.044" knee brace at each end of the beam.
 - For mobile / manufactured homes built after 1994, structures may be attached, provided the project follows the plan provided in this manual. The contractor / owner shall provide verification that the structural system of the host structure is adequate for the addition to be attached.
 - If the mobile / manufactured home manufacturer certifies in writing that the mobile home may be attached to, then a "fourth wall" is NOT required.
- Glass and modular walls between existing walls, floors, and ceilings shall be allowed and spans shall be figured the same as other glass and modular walls.
- When using TEK screws in lieu of S.M.S., longer screws must be used to compensate for drill head.
- For high velocity hurricane zones the minimum roof live load / applied load shall be 30 PSF.
- The framing of existing screen room walls to receive windows or solid sheathing shall be accomplished with the details of this chapter.
- Loads, coefficients, spans and heights may be interpolated between values but not extrapolated outside values.

Section 3B Design Statement:

The structures designed for Section 3 are solid roofs with screen or solid walls and are considered part of an enclosed or partially enclosed structural system since they are designed to be married to an existing structure.

The design wind loads used for glass rooms are from ASCE 7-98 Section 6.5, Analytical Procedure and are in compliance with the 2004 Florida Building Code. The loads assume a mean roof height of less than 30'; roof slope of 20° to 30° (+/- 10°); $1 = 0.77$. All pressures shown in the table below are in PSF (#/SF). Negative internal pressure coefficient is 0.18 for enclosed and 0.55 for partially enclosed structures.

Anchors for composite panel roof systems were computed on a load width of 10' and 16' projection with a 2' overhang. Any greater load width shall be site specific.

General Notes and Specifications for Section 3B Tables:

Section 3B Design Loads for Screen, Glass, & Modular Rooms

Wind Zone	Glass Rooms Enclosed		Over Hang All Roofs	
	Applied Load (#/SF)	Deflection (d)	Applied Load (#/SF)	Deflection (d)
100 MPH	+20/-20	+15/-13	+20/-30	1.1
110 MPH	+20/-23	+18/-15	+20/-36	1.2
120 MPH	+20/-27	+22/-18	+20/-43	1.3
123 MPH	+20/-29	+23/-19	+20/-45	1.4
130 MPH	+20/-32	+25/-21	+20/-50	1.5
140A & B MPH	+20/-37	+29/-25	+30/-58	1.6
150 MPH	+30/-43	+34/-28	+30/-67	1.7

Note 1: Framing systems of glass rooms are considered to be main frame resistance components. Wind loads are listed as minus loads for roofs and plus loads for walls. To convert above wind loads to "C" Exposure loads multiply by factors listed in Table 3B-C.

Conversion Table 3B-A
Wind Zone Conversions for Glass & Modular Rooms
From 120 MPH Wind Zone to Others

Wind Zone	Roofs		Walls	
	Applied Load (#/SF)	Deflection (d)	Applied Load (#/SF)	Deflection (d)
100	20	1.1	15	1.1
110	23	1.05	18	1.07
120	27	1.00	22	1.00
123	29	0.98	23	0.99
130	32	0.94	25	0.96
140 A & B	37	0.90	29	0.91
150	43	0.86	34	0.88

Conversion Table 3B-B
Wind Zone Conversions for Over Hangs
(for All Room Types)
From 120 MPH Wind Zone to Others

Wind Zone	Applied Load (#/SF)	Deflection (d)	Bending
100	30	1.13	1.20
110	36	1.06	1.09
120	43	1.00	1.00
123	45	0.96	0.98
130	50	0.91	0.93
140 A & B	58	0.85	0.88
150	67	0.80	0.80

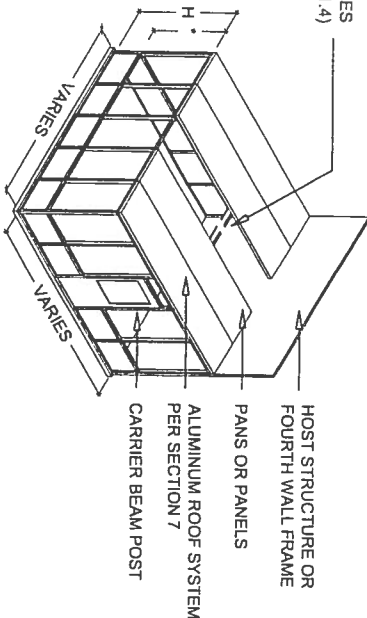
Conversion Table 3B-C
Conversion Based on Mean Height of Host Structure for Glass & Modular Rooms
From Exposure 'B' to 'C'

Mean Host Structure Height	Load Multiplier	Span Multiplier	Composite Panels
0 - 15'	1.21	0.94	0.88
15' - 20'	1.29	0.92	0.86
20' - 25'	1.34	0.91	0.85
25' - 30'	1.40	0.89	0.85

Conversion Table 3B-D
Conversion Based on Mean Height of Host Structure for Glass & Modular Rooms
From Enclosed to Partially Enclosed

Roof	Walls
bending (d)	0.92
deflection (d)	0.90

INTERIOR BEAM (SEE TABLES 3B.1.4)

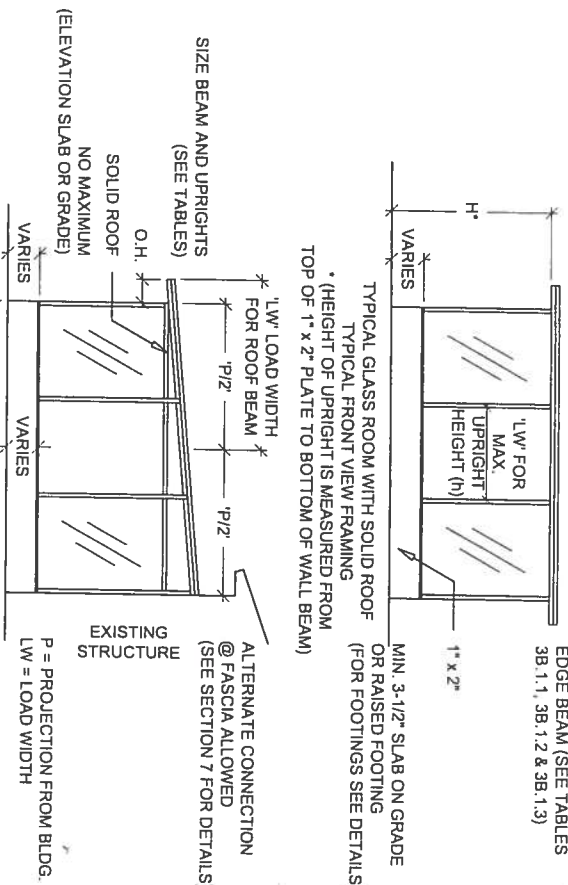


TYPICAL SLOPED SOLID ROOF ENCLOSURE
SCALE: N.T.S.



TYPICAL GABLE SOLID ROOF ENCLOSURE
SCALE: N.T.S.

EDGE BEAM (SEE TABLES 3B.1.1, 3B.1.2 & 3B.1.3)



- NOTES:
- ANCHOR 1" x 2" OPEN BACK EXTRUSION W/ 1/4" x 2-1/4" CONCRETE FASTENER MAX. OF 2'-0" O.C. AND W/ IN 6" EACH SIDE OF UPRIGHT ANCHOR 1" x 2" TO WOOD WALL W/ #10 x 2-1/2" S.M.S. W/ WASHERS OR #10 x 2-1/2" WASHER HEADED SCREW 2'-0" O.C. ANCHOR BEAM AND COLUMN INTERNALLY OR W/ ANCHOR CLIPS AND (2) #8 SCREWS W/ WASHERS @ EACH POINT OF CONNECTION.
 - SELECT FRONT WALL BEAM FROM TABLE USING LARGER LOAD WIDTH VALUE OF P/2 OR P/2 + O.H. BEAMS FROM TABLE FORTH WALL BEAM FROM TABLE 3.1.3 AND GLASS ROOM FOURTH WALL BEAMS FROM TABLE 3B.1.4 USING P/2
 - ANCHORS BASED ON 120 MPH WIND VELOCITY. FOR HIGHER WIND ZONES USE THE FOLLOWING CONVERSION:

100 - 123	#8	#10	#12	#12
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TYPICAL GLASS ROOM
SCALE: 1/8" = 1'-0"

PURSUANT TO PROVISIONS OF THE FLORIDA DEPARTMENT OF HIGHWAY SAFETY & MOTOR VEHICLES DIVISION OF MOTOR VEHICLES RULE 15C-2, THE SPAN TABLES, CONNECTION DETAILS, ANCHORING AND OTHER SPECIFICATIONS ARE DESIGNED TO BE MARRIED TO CONVENTIONALLY CONSTRUCTED HOMES AND / OR MANUFACTURED HOMES AND MOBILE HOMES CONSTRUCTED AFTER 1984.

07-08-2004

THE DESIGNS AND SPANS SHOWN ON THESE DRAWINGS ARE BASED ON THE LOAD REQUIREMENTS FOR THE FLORIDA BUILDING CODE 2004 EDITION.

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GLASS & MODULAR ROOMS
ALUMINUM STRUCTURES DESIGN MANUAL
2004 FLORIDA BUILDING CODE
MAY 2004 EDITION
SECTION 3B DETAILS

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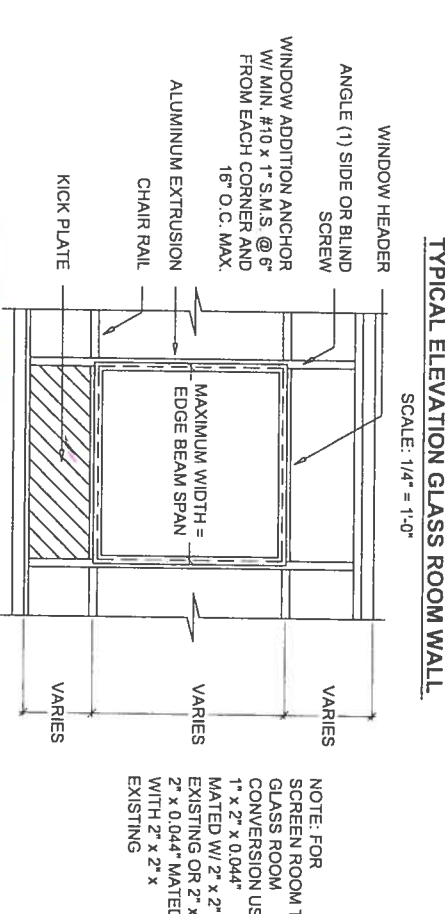
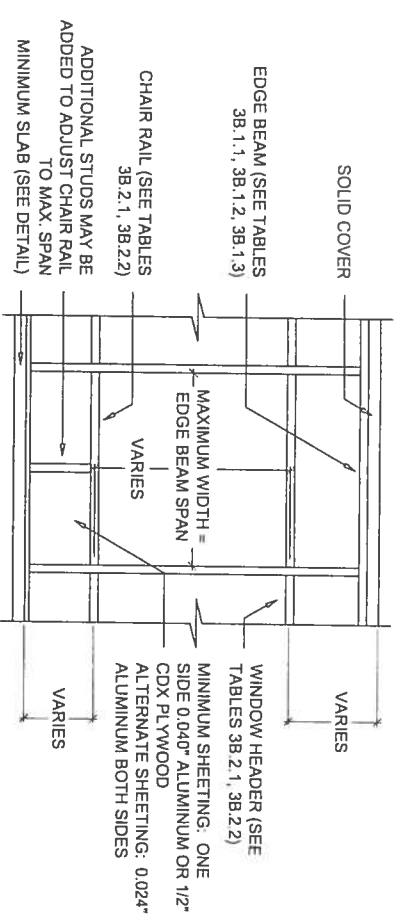
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2004

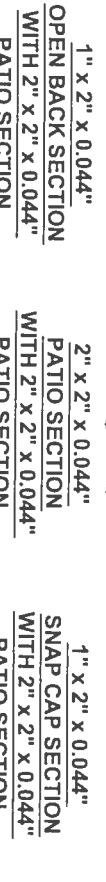
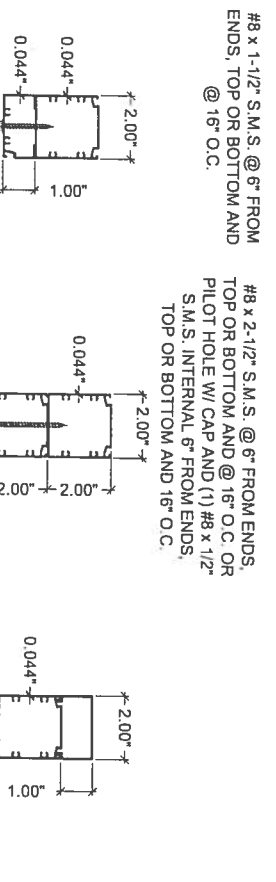
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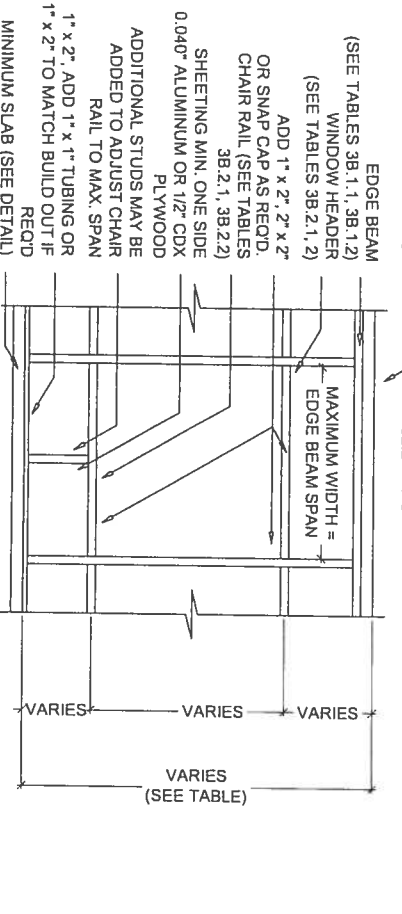
TYPICAL ELEVATION GLASS ROOM WALL

SCALE: 1/4" = 1'-0"



EXTRUSIONS AND FASTENING DETAILS

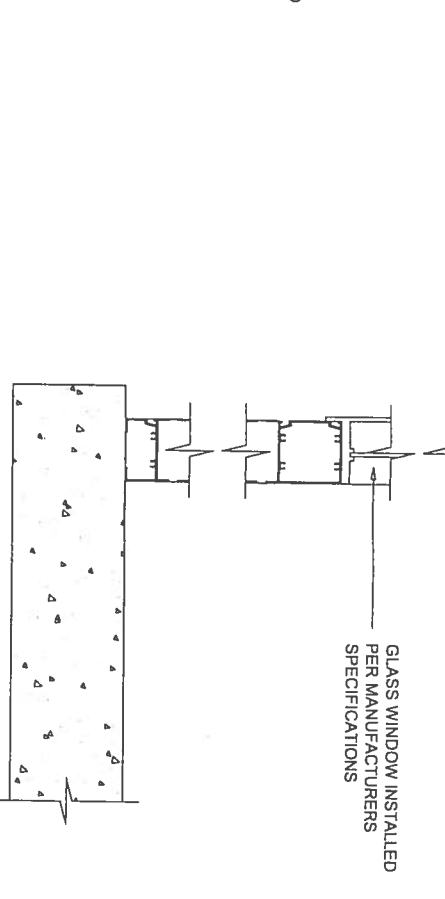
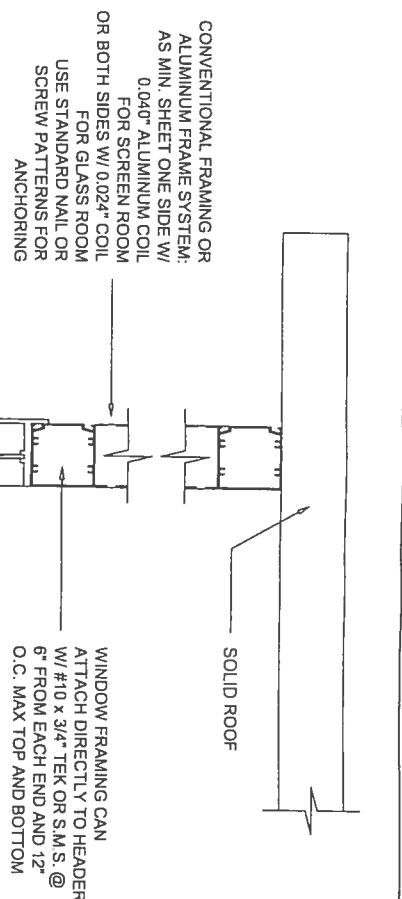
SCALE: 2" = 1'-0"



TYPICAL SCREEN ROOM CONVERTED TO GLASS ROOM WALL ELEVATION

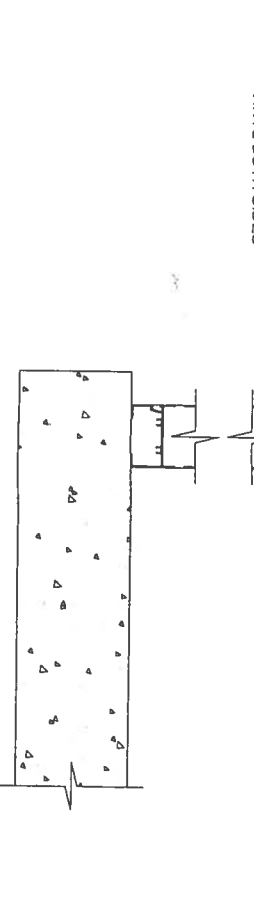
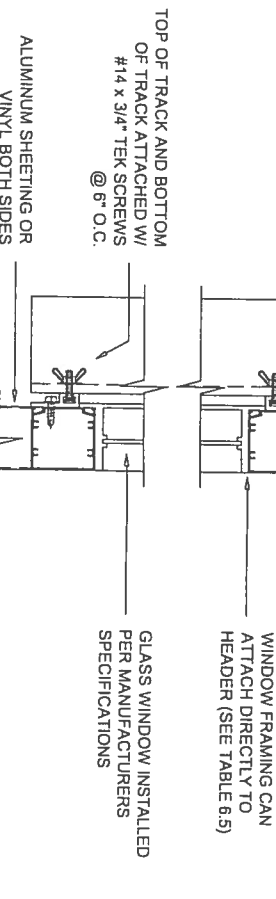
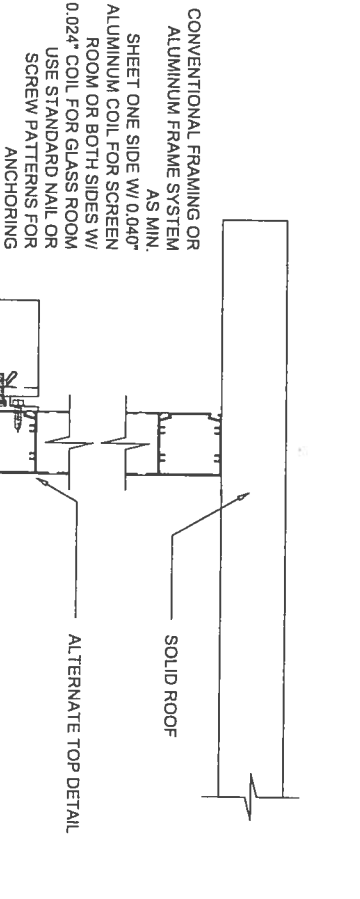
SCALE: 1/4" = 1'-0"

FOR SCREEN ROOM TO GLASS ROOM CONVERSION USE 1" x 2" x 0.044" MATED W/ 2" x 2" x EXISTING OR 2" x 2" x 0.044" MATED WITH 2" x 2" x EXISTING



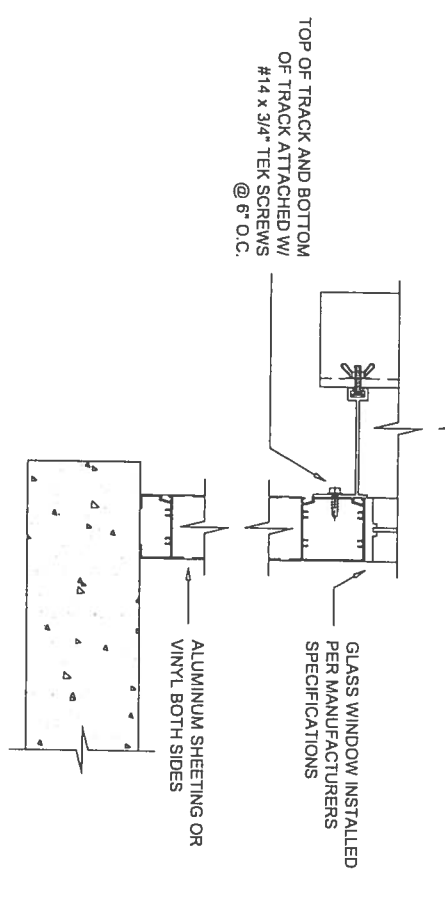
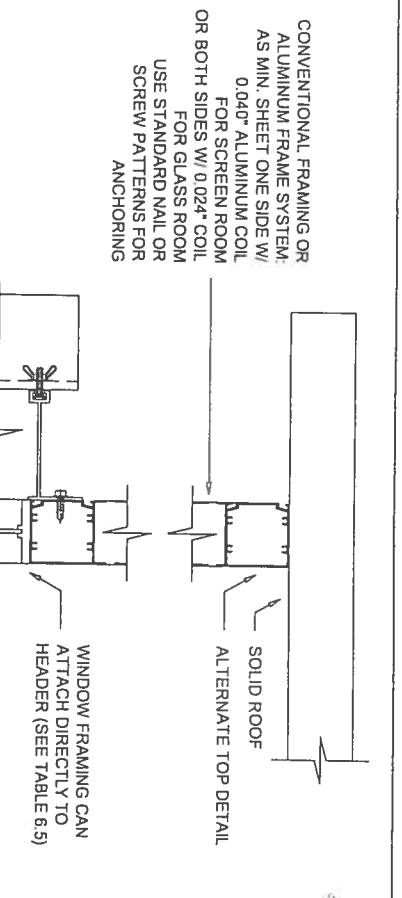
GLASS ROOM WALL SECTION

SCALE: 2" = 1'-0"



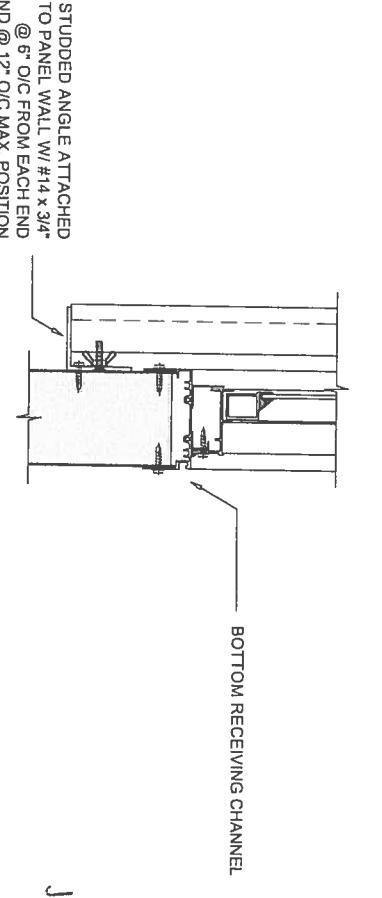
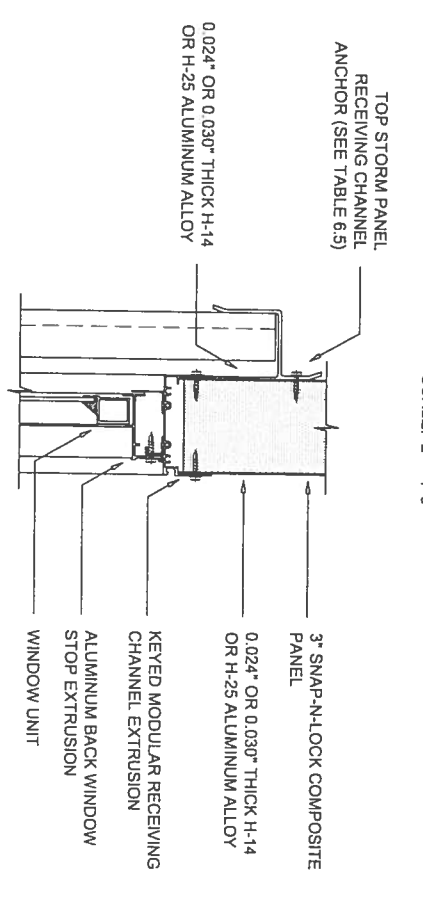
GLASS ROOM WALL WITH STORM GUARD PANEL SECTION

SCALE: 3" = 1'-0"



GLASS ROOM WALL WITH STORM GUARD PANEL SECTION

SCALE: 2" = 1'-0"



ATTACHMENT OF A WINDOW STORM PANEL TO COMPOSITE PANEL WALL DETAIL

SCALE: 2" = 1'-0"

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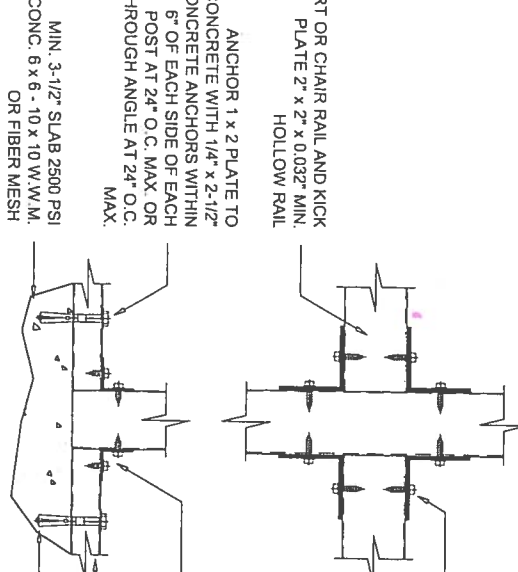
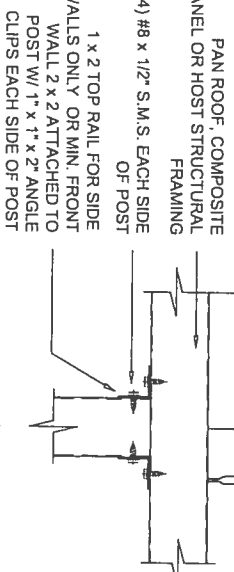
Anchor Specs for the Attachment of Storm Panels to Composite Panel Walls
 Exposure "B" or "C"

Wind Spd. (MPH)	Anchor Size & Spacing	
	0.024" Aluminum	0.024" Aluminum
120	#10/6" from ea. end & 12" O.C.	#10/4" from ea. end & 12" O.C.
130	#10/6" from ea. end & 12" O.C.	#12/4" from ea. end & 8" O.C.
140	#10/6" from ea. end & 12" O.C.	#12/4" from ea. end & 8" O.C.
150	#12/4" from ea. end & 8" O.C.	#12/4" from ea. end & 8" O.C.

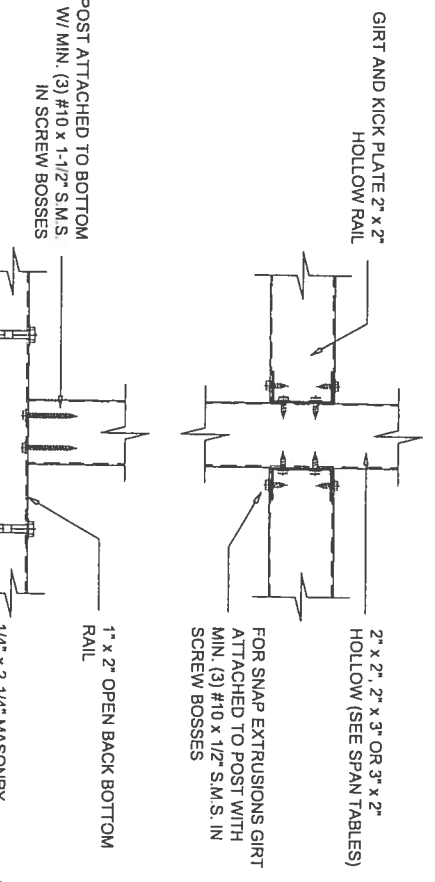
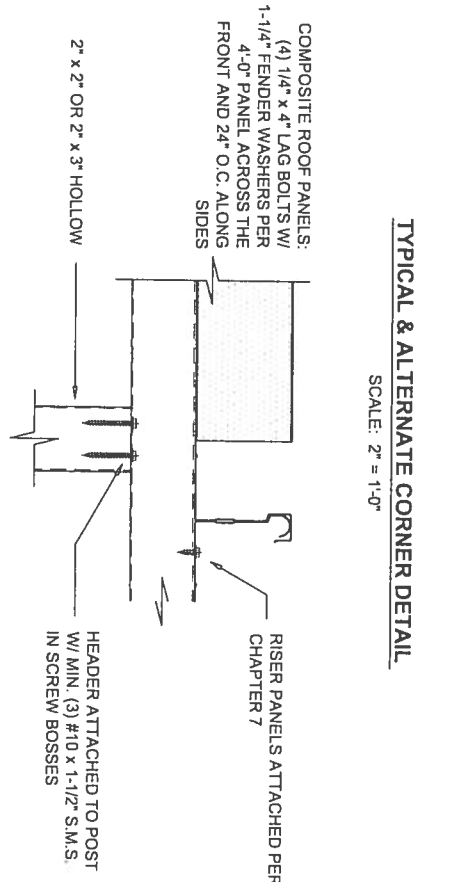
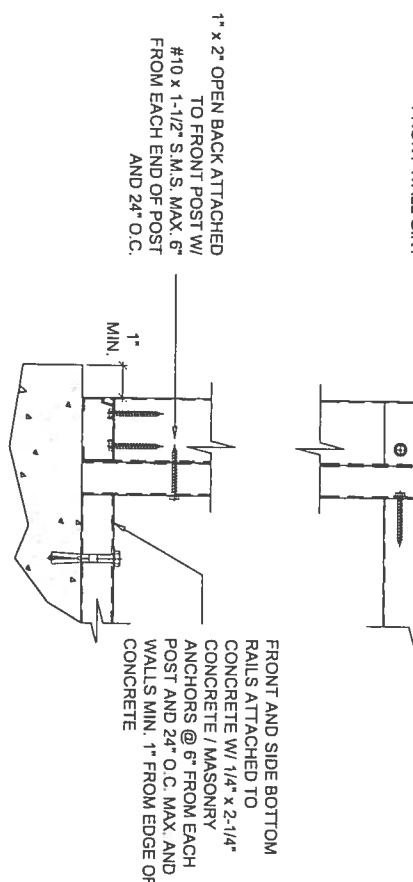
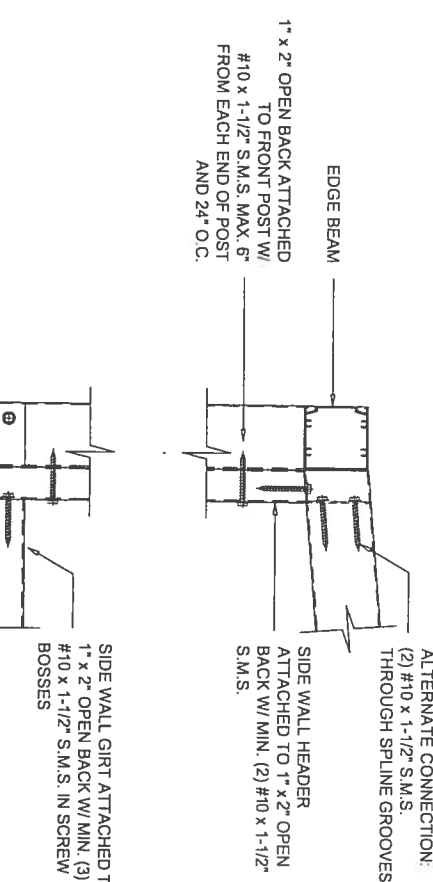
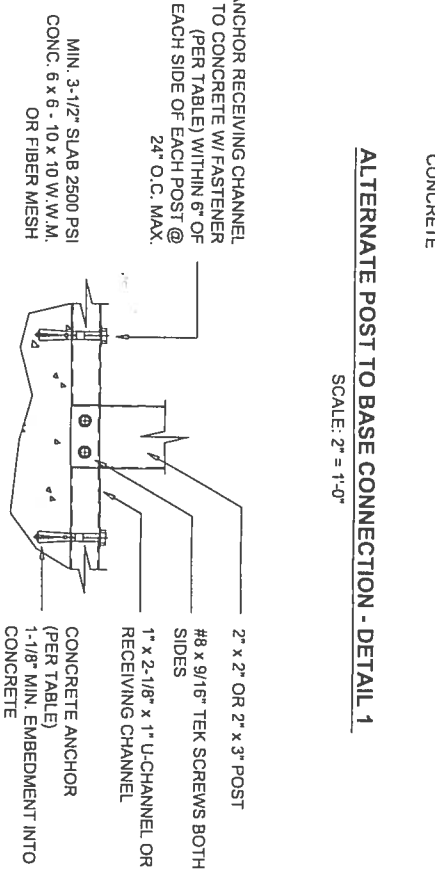
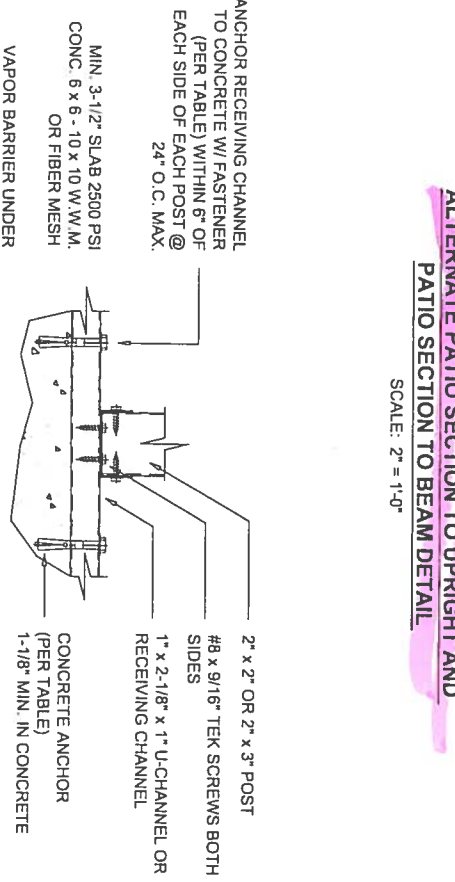
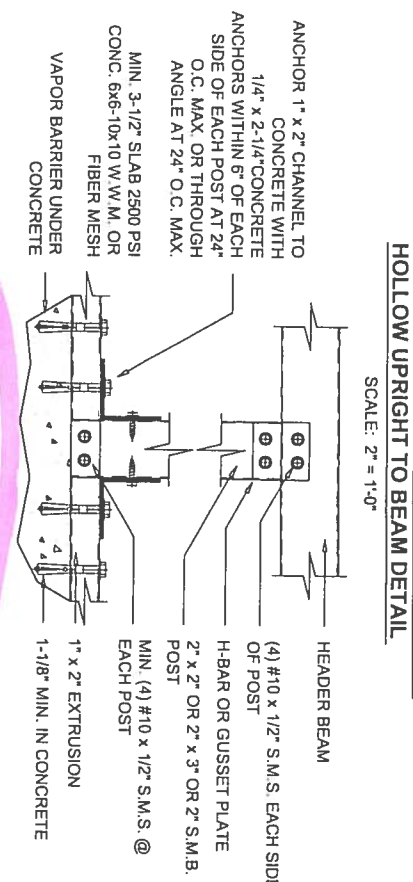
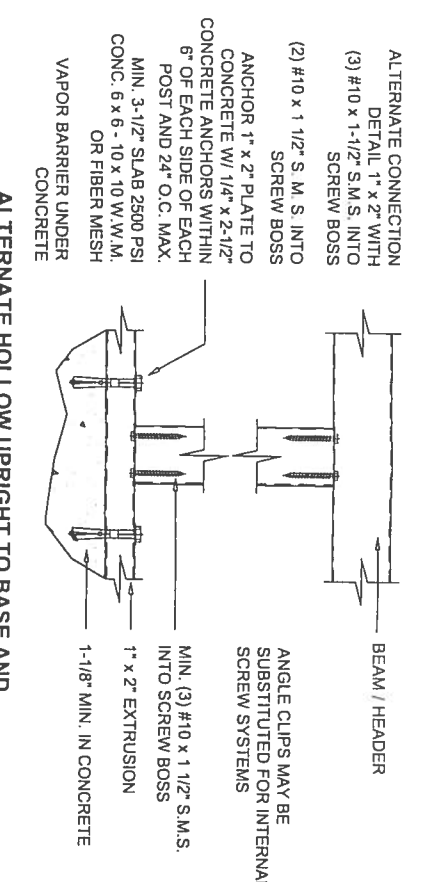
Wind Spd. (MPH)	Anchor Size & Spacing	
	0.024" Aluminum	0.024" Aluminum
120	#10/6" from ea. end & 12" O.C.	#10/4" from ea. end & 8" O.C.
130	#10/6" from ea. end & 12" O.C.	#12/4" from ea. end & 8" O.C.
140	#12/4" from ea. end & 8" O.C.	#14/4" from ea. end & 8" O.C.
150	#14/4" from ea. end & 8" O.C.	#14/3d" from ea. end & 8" O.C.

Attachment of Door Header / Studded Angle (Max. Hgt. 5'-1 1/2" Storm Panels)

Notes:
 For anchoring studded angle to concrete use 1/4" drop in receivers spaced @ 6" from ea. end and 12" O.C. For all wind zones and exposure categories w/ a min. anchor to edge of concrete distance of 6d.
 For anchoring studded angle to wood use 1/4" lag screws @ the same spacing as for 28 ga. steel panels listed above for the appropriate wind zone.
 1. The exposure "B" spacing is for mean roof heights 0-20' & exposure "C" spacing is for mean roof heights 0-20'. For mean roof heights greater than these consult engineer.
 2. Space all header & studded angle anchors to fall within the panel rise area.

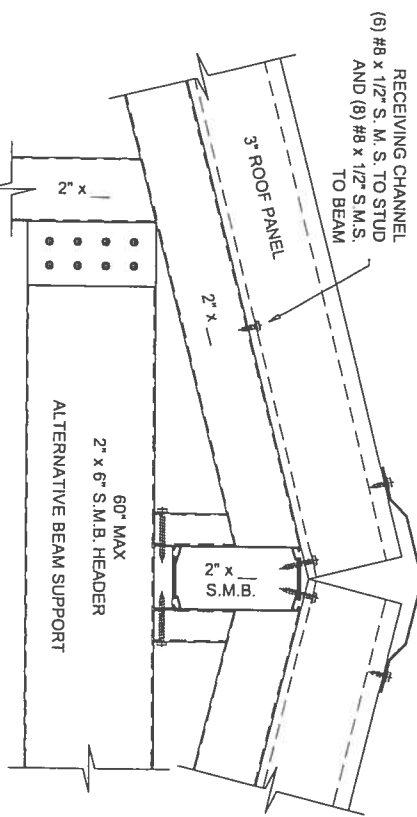
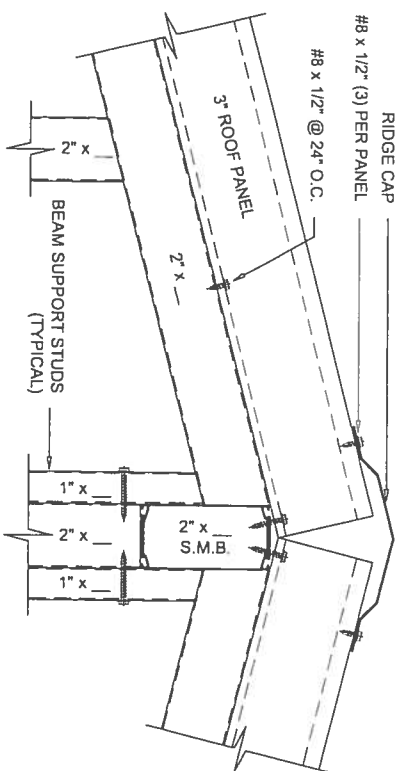


POST TO BASE GIRT AND POST TO BEAM DETAIL
 SCALE: 2" = 1'-0"



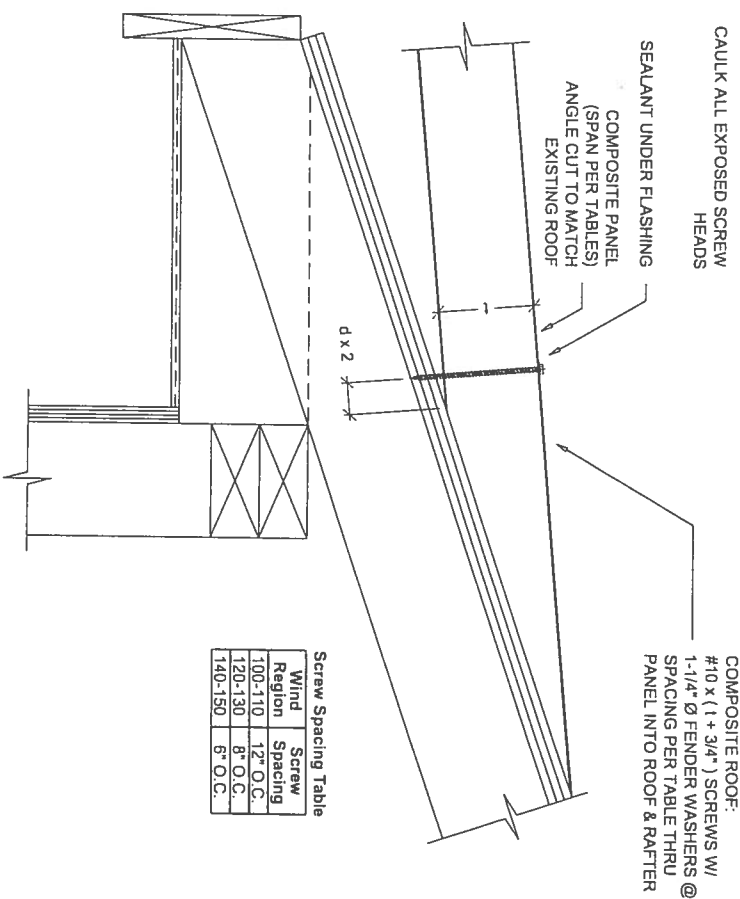
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GLASS & MODULAR ROOMS
 ALUMINUM STRUCTURES DESIGN MANUAL
 2004 FLORIDA BUILDING CODE
 MAY 2004 EDITION
 SECTION 3B DETAILS



GLASS ROOM FRAMING DETAILS

SCALE: 2" = 1'-0"



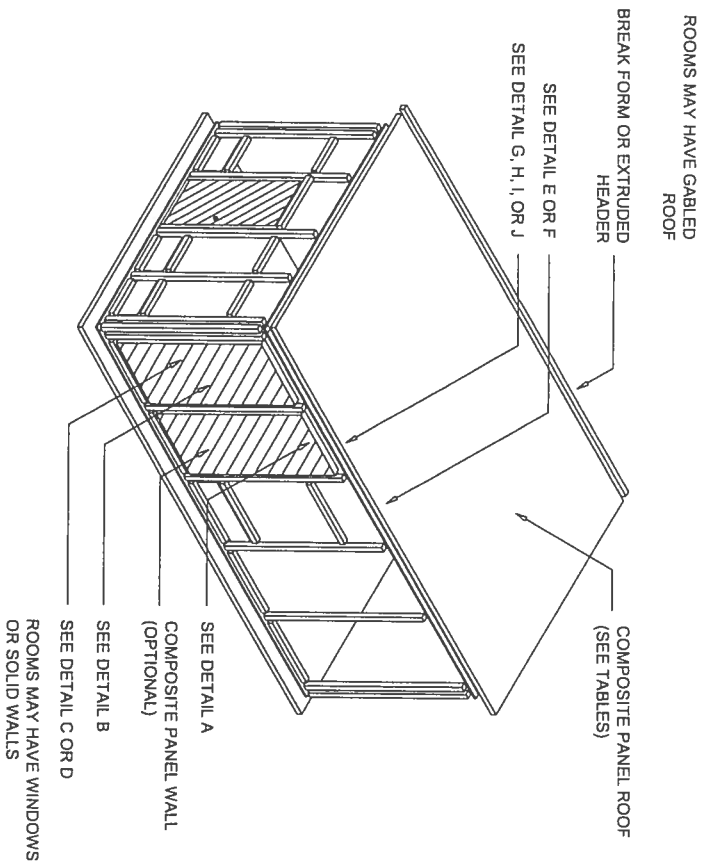
COMPOSITE ROOF:
#10 x (1 + 3/4") SCREWS W/
1-1/4" Ø FENDER WASHERS @
SPACING PER TABLE THRU
PANEL INTO ROOF & RAFTER

Screw Spacing Table

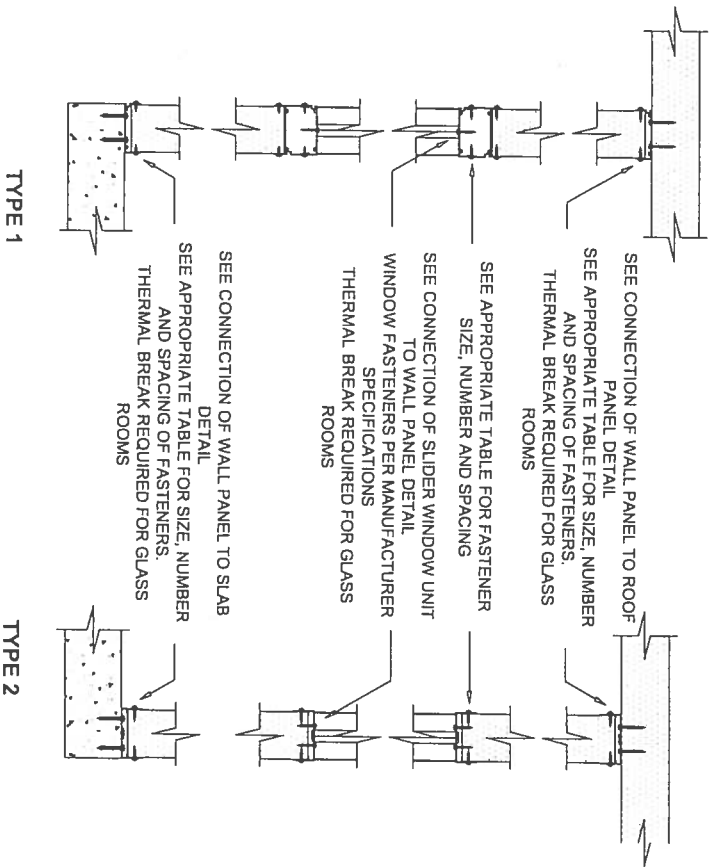
Wind Region	Screw Spacing
100-110	12" O.C.
120-130	8" O.C.
140-150	6" O.C.

WEDGE ROOF CONNECTION DETAIL

SCALE: 2" = 1'-0"



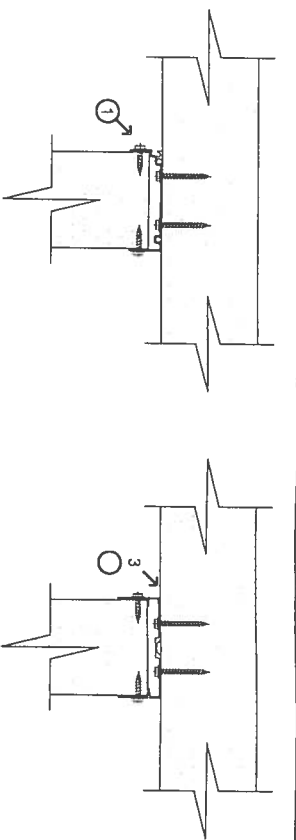
3" MODULAR ROOM
SCALE: N.T.S.



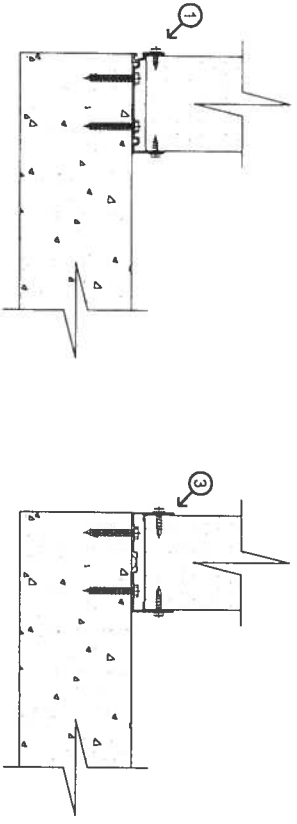
3" MODULAR ROOM WALL SECTION

SCALE: 1" = 1'-0"

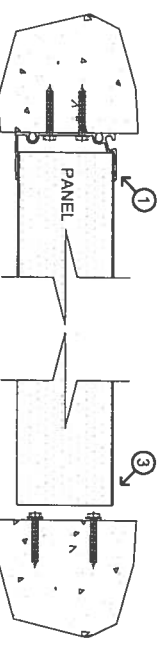
NOTE: STORM PANEL UNITS MAY BE ATTACHED TO ALUMINUM FRAME MEMBERS OR DIRECTLY TO COMPOSITE PANEL WALL MEMBERS



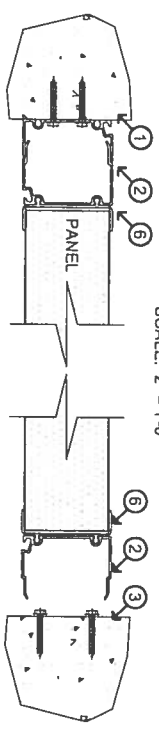
SEE APPROPRIATE TABLES FOR FASTENER SIZE, NUMBER AND SPACING
THERMAL BREAKS ARE REQUIRED FOR ALL GLASS ROOMS
DETAIL A: CONNECTION OF WALL PANEL TO ROOF PANEL
SCALE: 2" = 1'-0"



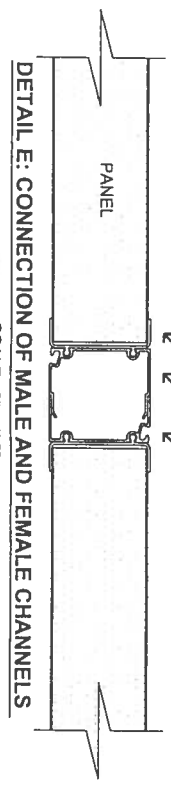
SEE APPROPRIATE TABLES FOR FASTENER SIZE, NUMBER AND SPACING
THERMAL BREAKS ARE REQUIRED FOR ALL GLASS ROOMS
DETAIL B: CONNECTION OF WALL PANEL TO SLAB
SCALE: 2" = 1'-0"



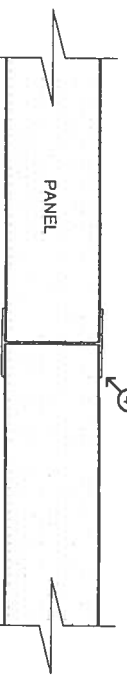
DETAIL C: CONNECTION TO EXISTING STRUCTURE WITH FILL PANEL
SCALE: 2" = 1'-0"



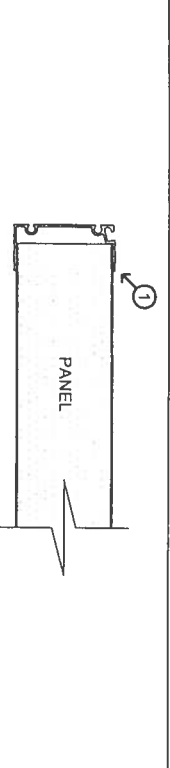
DETAIL D: CONNECTION TO EXISTING STRUCTURE WITH MALE CHANNEL
SCALE: 2" = 1'-0"



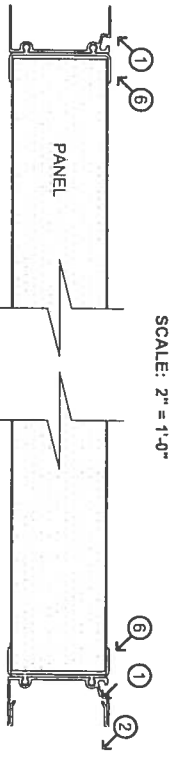
DETAIL E: CONNECTION OF MALE AND FEMALE CHANNELS
SCALE: 2" = 1'-0"



DETAIL F: CONNECTION OF 'H' CHANNEL TO FILL PANELS
SCALE: 2" = 1'-0"



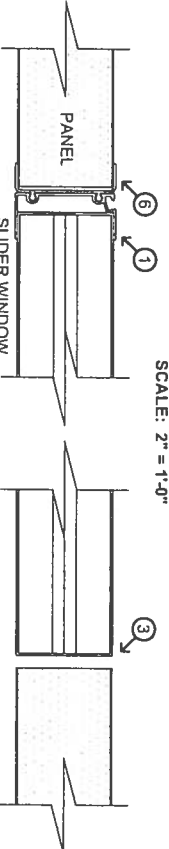
DETAIL G: CONNECTION OF FEMALE CHANNEL TO FILL PANEL
SCALE: 2" = 1'-0"



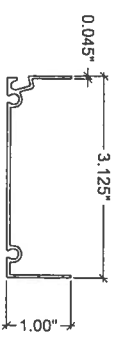
DETAIL H: CONNECTION OF MALE AND FEMALE CHANNELS TO PANEL ADAPTER
SCALE: 2" = 1'-0"



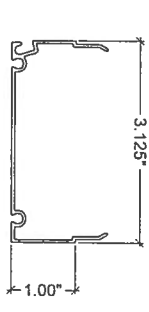
DETAIL I: CORNER CONNECTION WITH MALE CHANNEL
SCALE: 2" = 1'-0"



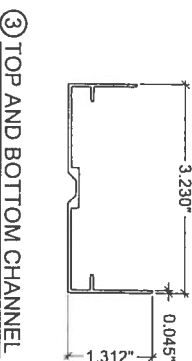
DETAIL J: CONNECTION OF SLIDER WINDOW UNIT TO WALL PANEL
SCALE: 2" = 1'-0"



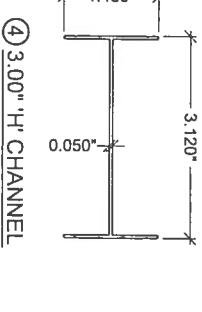
PROPERTIES:
A = 0.281 in.²
I_x - Y = 0.385 in.⁴
S_x - Y = 0.238 in.³
r_y - Y = 1.17 in.



PROPERTIES:
A = 0.332 in.²
I_x - Y = 0.497 in.⁴
S_x - Y = 0.309 in.³
r_y - Y = 1.223 in.



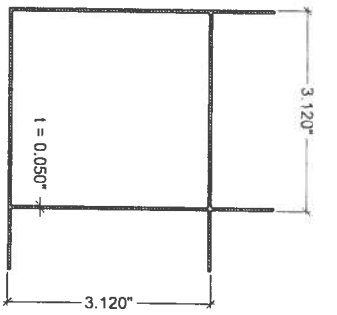
PROPERTIES:
A = 0.315 in.²
I_x - Y = 0.443 in.⁴
S_x - Y = 0.265 in.³
r_y - Y = 1.187 in.



PROPERTIES:
A = 0.318 in.²
I_x - Y = 0.2813 in.⁴
S_x - Y = 0.2613 in.³
r_y - Y = 91 in.

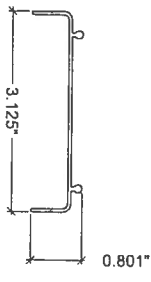
SEE APPROPRIATE TABLES FOR FASTENER SIZE, NUMBER & SPACING

07-08-2004



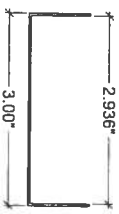
PROPERTIES:
 A = 0.564 in.²
 I_x - Y = 0.8756 in.⁴
 S_x - Y = 0.703 in.³
 r_y - Y = 1.246 in.

⑤ CORNER POST
 SCALE: 4" = 1'-0"



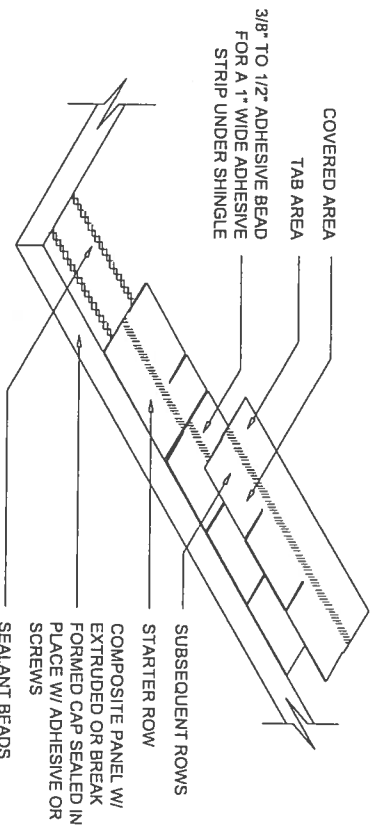
PROPERTIES:
 A = 0.164 in.²
 I_x - Y = 0.102 in.⁴
 S_x - Y = 0.129 in.³
 r_y - Y = 1.493 in.

⑥ 3.00" PANEL ADAPTER
 SCALE: 4" = 1'-0"



PROPERTIES:
 A = 0.138 in.²
 I_x - Y = 0.165 in.⁴
 S_x - Y = 0.110 in.³
 r_y - Y = 1.092 in.

⑦ 3.00" INSERT CHANNEL (D.R.C.)
 SCALE: 4" = 1'-0"



COMPOSITE ROOF PANEL WITH ALTERNATE SHINGLE FINISH DETAIL
 SCALE: N.T.S.

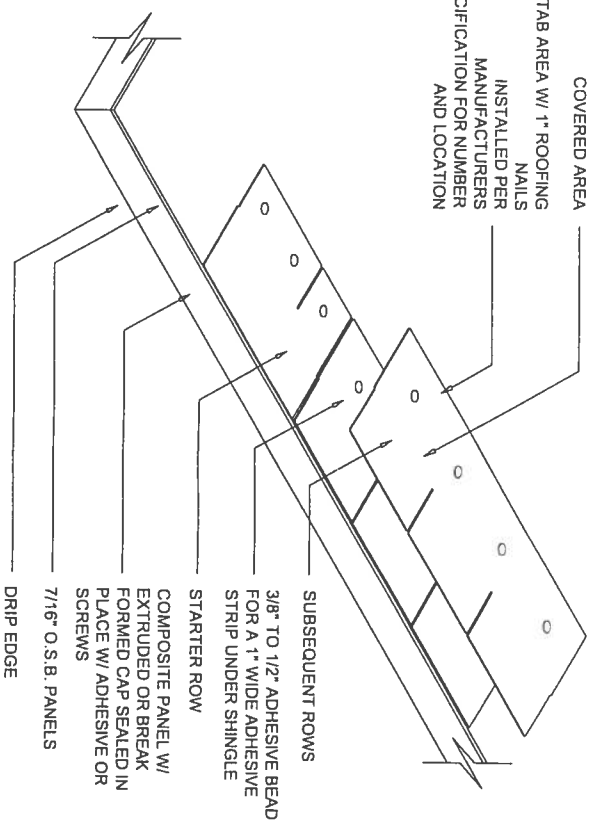
ATTACH SHINGLES TO COMPOSITE ROOF PANELS WITH INDUSTRIAL ADHESIVE. APPLY ADHESIVE IN A CONTINUOUS BEAD 3/8" TO 1/2" DIAMETER SO THAT THERE IS A 1" WIDE STRIP OF ADHESIVE WHEN THE SHINGLE IS PUT IN PLACE.

FOR AREAS UP TO 120 M.P.H. WIND ZONE:

- 1) STARTER ROWS OF SHINGLES SHALL HAVE ONE STRIP OF ADHESIVE UNDER THE SHINGLE AT MID COVERED AREA AND ONE UNDER THE SHINGLE AT MID TAB AREA. STARTER SHINGLE ROW INSTALLED WITH THE TABS FACING IN THE UPWARD DIRECTION OF THE ROOF SLOPE.
 - 2) SUBSEQUENT ROWS OF SHINGLES INSTALLED WITH THE TABS FACING IN THE DOWNWARD DIRECTION OF THE ROOF SLOPE WITH ONE STRIP OF ADHESIVE UNDER THE SHINGLE AT MID COVERED AREA.
- FOR AREAS ABOVE 120 M.P.H. WIND ZONE:
- 1) STARTER ROWS OF SHINGLES SHALL HAVE TWO STRIPS OF ADHESIVE UNDER THE SHINGLE AT MID COVERED AREA AND TWO STRIPS AT MID TAB AREA. SHINGLE ROW INSTALLED WITH THE TABS FACING IN THE UPWARD DIRECTION OF THE ROOF SLOPE.
 - 2) SUBSEQUENT ROWS OF SHINGLES INSTALLED PER PREVIOUS SPECIFICATION WITH TWO STRIPS OF ADHESIVE AT MID COVERED AREA.

* ADHESIVE: CHEM REX - PL PREMIUM 948 URETHANE ADHESIVE OR OSI - RF140
 MINIMUM ROOF SLOPE: 2" IN 12"

COVERED AREA
 TAB AREA W/ 1" ROOFING
 NAILS
 INSTALLED PER
 MANUFACTURERS
 SPECIFICATION FOR NUMBER
 AND LOCATION

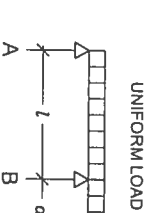


COMPOSITE ROOF PANEL WITH ALTERNATE O.S.B. AND STANDARD SHINGLE FINISH DETAIL
 SCALE: N.T.S.

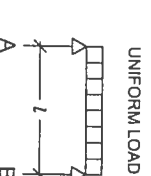
SPECIFICATIONS FOR APPLYING O.S.B. AND SHINGLES FOR ROOF SLOPES OF 2:12 TO 4:12

NOTES:

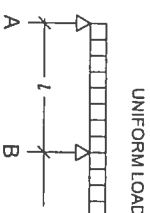
1. INSTALL PRO-FAB PANELS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
2. SEAL ALL SEAMS WITH PRO 2000 CHEMREX 948 URETHANE AND CLEAN THE ROOF OF ANY DIRT, GREASE, WATER OR OIL.
3. APPLY 12 - 16 MILS OF CONTACT CEMENT TO THE PANELS AND INSTALL 7/16" O.S.B. OVER THE GLUE AND PANELS. ALTERNATE FASTENING: USE #8 X 1-1/4" GALVANIZED DECK SCREWS @ 8" O.C. EDGES & 16" O.C. FIELD.
4. INSTALL 15# FELT PAPER IN ACCORDANCE WITH STANDARD BUILDING CODE SECTION 1507.38.1.
5. INSTALL SHINGLES IN ACCORDANCE WITH STANDARD BUILDING CODE SECTION 1507.3.7.1 THROUGH 1507.3.7.



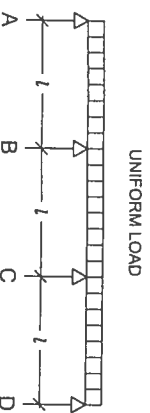
SINGLE SPAN CANTILEVER
 UNIFORM LOAD



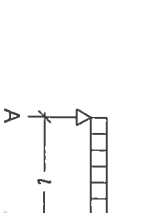
1 OR SINGLE SPAN
 UNIFORM LOAD



2 SPAN
 UNIFORM LOAD



3 SPAN
 UNIFORM LOAD

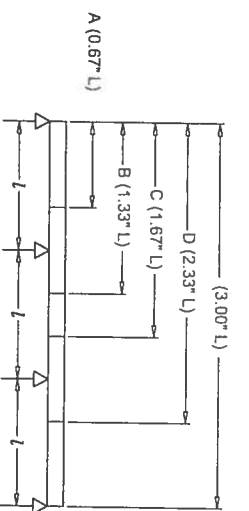


4 SPAN
 UNIFORM LOAD

NOTES:

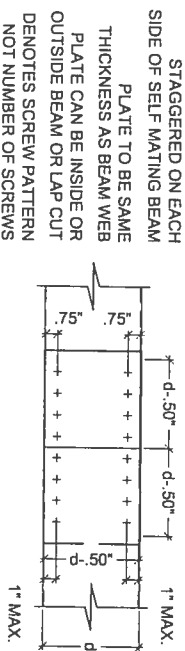
- 1) L = Span Length
- 2) All spans listed in the tables are for equally spaced distances between supports or anchor points.
- 3) Hollow extrusions shall not be spliced.
- 4) Single span beams shall only be spliced at the quarter points and splices shall be staggered.

SPAN EXAMPLES FOR SECTION 3 TABLES
 SCALE: N.T.S.



ALLOWABLE BEAM SPLICE LOCATIONS
 SCALE: 1/8" = 1'-0"

SINGLE SPAN BEAM SPLICE @ 1/4 POINT OF BEAM SPAN ALL SPLICES SHALL BE STAGGERED ON EACH SIDE OF SELF MATING BEAM PLATE TO BE SAME THICKNESS AS BEAM WEB PLATE CAN BE INSIDE OR OUTSIDE BEAM OR LAP CUT DENOTES SCREW PATTERN NOT NUMBER OF SCREWS



HEIGHT 2 x (d - 50") LENGTH

Screw Size	d5 (in.)	Minimum Distance and Spacing of Screws		Gusset Plate Thickness	
		Edge To Center	Center To Center	Beam Size	Thickness
#8	0.16	3/8	7/16	2" x 7" x 0.095" x 0.120"	1/16" = 0.063"
#10	0.19	3/8	1/2	2" x 8" x 0.072" x 0.224"	1/8" = 0.125"
#12	0.21	7/16	9/16	2" x 9" x 0.072" x 0.224"	1/8" = 0.125"
#14 @ 1/4"	0.25	1/2	5/8	2" x 9" x 0.082" x 0.306"	1/8" = 0.125"
5/16"	0.313	5/8	3/4	2" x 10" x 0.092" x 0.369"	1/4" = 0.25"

* Refers to each side of splice.
 ** Use for 2" x 4" and 2" x 6" also

Note:

1. All gusset plates shall be a minimum 5052 H-32 Alloy or have a minimum yield of 23 ksi

TYPICAL BEAM SPLICE DETAIL
 SCALE: 1" = 1'-0"

Table 3B.1.2-110 Allowable Edge Beam Spans - Snap Sections
Glass & Modular Rooms
For 3 second wind gust at 110 MPH velocity; using design load of 23 #/SF (58 #/SF for Max. Cantilever)
Aluminum Alloy 6063 T-6

Load Width (ft.)	2" x 2" x 0.044" Snap Extrusion				2" x 3" x 0.045" Snap Extrusion			
	1 & 2 Span	3 Span	4 Span	Max. Cantilever	1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	4:0" d	5:10" d	5:10" b	1:2" d	6:4" d	7:8" d	7:5" b	1:7" d
6	4:5" d	5:6" d	5:4" b	1:2" d	5:11" d	7:0" d	6:9" b	1:6" d
7	4:2" d	5:1" d	4:11" b	1:1" d	5:8" d	6:6" d	6:3" b	1:5" d
8	4:0" d	4:9" d	4:7" b	1:0" d	5:5" d	6:1" b	5:11" b	1:5" d
9	3:10" d	4:6" d	4:4" b	0:11" d	5:2" d	5:9" d	5:7" b	1:4" d
10	3:9" d	4:3" d	4:1" b	0:11" d	4:10" d	5:5" d	5:3" b	1:3" d
11	3:7" d	4:1" d	3:11" b	0:11" d	4:8" d	5:2" d	4:10" b	1:3" d
12	3:6" d	3:11" b	3:9" b	0:11" d	4:5" d	4:11" b	4:10" b	1:2" d
Load Width (ft.)	2" x 2" x 0.044" Snap Extrusion				2" x 2" x 0.044" Snap Extrusion			
	1 & 2 Span	3 Span	4 Span	Max. Cantilever	1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	7:1" d	8:7" d	8:4" b	2:0" d	7:1" d	8:4" b	8:1" b	1:11" d
6	7:6" d	8:2" d	7:8" b	1:10" d	7:1" d	8:4" b	8:1" b	1:10" d
7	7:1" d	7:11" d	7:8" b	1:10" d	6:3" d	7:2" d	7:2" b	1:9" d
8	6:4" d	7:5" d	7:2" b	1:9" d	6:3" d	7:2" d	7:2" b	1:9" d
9	6:3" d	7:0" d	6:9" b	1:8" d	5:11" d	6:5" d	6:5" b	1:8" d
10	5:11" d	6:8" d	6:5" b	1:7" d	5:11" d	6:5" d	6:5" b	1:7" d
11	5:4" d	6:4" d	6:2" b	1:7" d	4:8" d	6:2" d	6:2" b	1:6" d
12	5:5" d	6:1" b	5:10" b	1:6" d	4:8" d	6:2" d	6:2" b	1:6" d

Notes:
1. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
2. Spans may be interpolated.

Table 3B.1.2-120 Allowable Edge Beam Spans - Snap Sections
Glass & Modular Rooms
For 3 second wind gust at 120 MPH velocity; using design load of 27 #/SF (43 #/SF for Max. Cantilever)
Aluminum Alloy 6063 T-6

Load Width (ft.)	2" x 2" x 0.044" Snap Extrusion				2" x 3" x 0.045" Snap Extrusion			
	1 & 2 Span	3 Span	4 Span	Max. Cantilever	1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	4:5" d	5:6" d	5:4" b	1:2" d	6:0" d	7:1" d	6:10" b	1:6" d
6	4:2" d	5:1" d	4:11" b	1:1" d	5:4" d	6:6" d	6:3" b	1:5" d
7	3:11" d	4:8" d	4:6" b	1:0" d	5:4" d	6:6" d	6:3" b	1:4" d
8	3:10" d	4:5" d	4:3" b	0:11" d	5:0" d	5:7" d	5:5" b	1:4" d
9	3:9" d	4:2" d	3:11" b	0:11" d	4:9" d	5:4" d	5:1" b	1:3" d
10	3:6" d	3:11" b	3:9" b	0:11" d	4:6" d	5:0" d	4:10" b	1:3" d
11	3:4" d	3:9" b	3:7" b	0:10" d	4:3" d	4:7" d	4:8" b	1:2" d
12	3:2" d	3:7" b	3:5" b	0:10" d	4:1" d	4:7" d	4:5" b	1:2" d
Load Width (ft.)	2" x 2" x 0.044" Snap Extrusion				2" x 2" x 0.044" Snap Extrusion			
	1 & 2 Span	3 Span	4 Span	Max. Cantilever	1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	7:7" d	8:3" d	8:5" b	1:11" d	7:7" d	8:3" d	8:5" b	1:11" d
6	7:1" d	7:11" d	7:8" b	1:10" d	6:7" d	7:4" d	7:1" b	1:9" d
7	6:7" d	7:4" d	7:1" b	1:9" d	6:7" d	7:4" d	7:1" b	1:9" d
8	6:2" d	6:10" d	6:8" b	1:8" d	5:10" d	6:3" d	6:3" b	1:7" d
9	5:10" d	6:6" d	6:3" d	1:7" d	5:10" d	6:3" d	6:3" d	1:7" d
10	5:6" d	6:2" d	5:11" b	1:6" d	4:8" d	6:2" d	6:2" b	1:6" d
11	5:3" d	5:10" d	5:8" d	1:6" d	4:8" d	6:2" d	6:2" d	1:6" d
12	5:0" d	5:7" d	5:5" d	1:5" d	4:8" d	6:2" d	6:2" d	1:5" d

Notes:
1. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
2. Spans may be interpolated.

Table 3B.1.2-130 Allowable Edge Beam Spans - Snap Sections
Glass & Modular Rooms
For 3 second wind gust at 130 MPH velocity; using design load of 32 #/SF (50 #/SF for Max. Cantilever)
Aluminum Alloy 6063 T-6

Load Width (ft.)	2" x 2" x 0.044" Snap Extrusion				2" x 3" x 0.045" Snap Extrusion			
	1 & 2 Span	3 Span	4 Span	Max. Cantilever	1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	4:3" d	5:1" d	4:11" b	1:1" d	5:8" d	6:6" d	6:4" b	1:4" d
6	3:11" d	4:8" d	4:6" b	1:0" d	5:4" d	6:6" d	6:4" b	1:4" d
7	3:9" d	4:4" d	4:2" b	0:11" d	4:11" d	5:6" d	5:4" b	1:4" d
8	3:7" d	4:0" d	3:11" b	0:11" d	4:7" d	5:2" d	4:11" b	1:3" d
9	3:5" d	3:10" d	3:8" b	0:11" d	4:4" d	4:10" d	4:8" b	1:2" d
10	3:3" d	3:7" d	3:6" b	0:10" d	4:2" d	4:7" d	4:6" b	1:2" d
11	3:1" d	3:5" d	3:4" b	0:10" d	3:11" d	4:5" d	4:3" b	1:1" d
12	2:11" d	3:3" d	3:2" d	0:10" d	3:9" d	4:3" d	4:1" b	1:1" d
Load Width (ft.)	2" x 2" x 0.044" Snap Extrusion				2" x 2" x 0.044" Snap Extrusion			
	1 & 2 Span	3 Span	4 Span	Max. Cantilever	1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	7:2" d	7:11" d	7:9" b	1:10" d	7:2" d	7:11" d	7:9" b	1:10" d
6	6:6" d	7:3" d	7:1" b	1:9" d	6:6" d	7:3" d	7:1" b	1:9" d
7	6:0" d	6:9" d	6:6" b	1:8" d	5:8" d	6:6" d	6:6" b	1:8" d
8	5:8" d	6:4" d	6:1" b	1:7" d	5:4" d	6:1" d	6:1" b	1:7" d
9	5:4" d	6:1" d	5:11" b	1:6" d	5:4" d	6:1" d	6:1" b	1:6" d
10	5:1" d	5:8" d	5:5" b	1:5" d	4:10" d	5:5" d	5:5" b	1:5" d
11	4:10" d	5:5" d	5:2" d	1:5" d	4:10" d	5:5" d	5:5" d	1:5" d
12	4:7" d	5:2" d	4:11" b	1:4" d	4:7" d	5:2" d	4:11" b	1:4" d

Notes:
1. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
2. Spans may be interpolated.

Table 3B.1.2-140A Allowable Edge Beam Spans - Snap Sections
Glass & Modular Rooms
For 3 second wind gust at 140A MPH velocity; using design load of 37 #/SF (58 #/SF for Max. Cantilever)
Aluminum Alloy 6063 T-6

Load Width (ft.)	2" x 2" x 0.044" Snap Extrusion				2" x 3" x 0.045" Snap Extrusion			
	1 & 2 Span	3 Span	4 Span	Max. Cantilever	1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	4:0" d	4:9" d	4:7" b	1:0" d	5:5" d	6:6" d	6:4" b	1:5" d
6	3:9" d	4:4" d	4:2" d	0:11" d	5:1" d	6:1" d	5:9" b	1:4" d
7	3:7" d	4:0" d	3:10" b	0:11" d	4:10" d	5:6" d	5:4" b	1:3" d
8	3:4" d	3:9" d	3:7" d	0:10" d	4:7" d	5:2" d	4:11" b	1:2" d
9	3:2" d	3:6" d	3:5" d	0:10" d	4:4" d	4:10" d	4:8" b	1:2" d
10	2:11" d	3:4" d	3:3" d	0:10" d	4:2" d	4:7" d	4:6" b	1:1" d
11	2:10" d	3:2" d	3:1" d	0:9" d	3:11" d	4:5" d	4:3" b	1:1" d
12	2:9" d	3:1" d	2:11" b	0:9" d	3:9" d	4:3" d	4:1" b	1:0" d
Load Width (ft.)	2" x 2" x 0.044" Snap Extrusion				2" x 2" x 0.044" Snap Extrusion			
	1 & 2 Span	3 Span	4 Span	Max. Cantilever	1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	6:8" d	7:5" d	7:2" d	1:9" d	6:8" d	7:5" d	7:2" d	1:9" d
6	6:1" d	6:9" d	6:7" d	1:9" d	6:1" d	6:9" d	6:7" d	1:9" d
7	5:7" d	6:3" d	6:1" b	1:7" d	5:7" d	6:3" d	6:1" b	1:7" d
8	5:3" d	5:10" d	5:8" d	1:6" d	4:11" d	5:8" d	5:8" d	1:6" d
9	4:11" d	5:6" d	5:4" d	1:5" d	4:11" d	5:6" d	5:4" d	1:5" d
10	4:8" d	5:3" d	5:1" d	1:5" d	4:8" d	5:3" d	5:1" d	1:5" d
11	4:6" d	5:0" d	4:10" d	1:4" d	4:6" d	5:0" d	4:10" d	1:4" d
12	4:3" d	4:10" d	4:8" d	1:4" d	4:3" d	4:10" d	4:8" d	1:4" d

Notes:
1. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
2. Spans may be interpolated.

Table 3B.1.3-110 Allowable Edge Beam Spans - Hollow Extrusions
For Screen Rooms Converted to or Typical Construction of Glass / Enclosed Rooms
For 3 second wind gust at 110 MPH velocity; using design load of 23 #/SF (36 #/SF for Max. Cantilever)
Aluminum Alloy 6063 T-6

Load Width (ft.)	2" x 2" x 0.044" w/ Snap Cap Attached				1" x 2" x 0.044" to 2" x 2" Existing			
	1 & 2 Span	3 Span	4 Span	Max. Cantilever	1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	5:3" d	6:3" d	5:6" b	1:4" d	5:8" d	7:1" d	6:11" b	1:6" d
6	4:11" d	5:8" d	5:6" b	1:3" d	5:8" d	6:6" d	6:3" b	1:5" d
7	4:8" d	5:3" d	5:1" b	1:2" d	5:4" d	6:0" d	5:10" b	1:4" d
8	4:5" d	4:11" d	4:9" b	1:2" d	5:0" d	5:8" d	5:5" b	1:4" d
9	4:2" d	4:8" d	4:6" b	1:1" d	4:9" d	5:4" d	5:2" b	1:3" d
10	3:11" d	4:5" d	4:3" b	1:1" d	4:6" d	5:0" d	4:10" b	1:3" d
11	3:9" d	4:2" d	4:1" b	1:0" d	4:4" d	4:10" d	4:8" b	1:2" d
12	3:7" d	4:0" d	3:10" b	0:11" d	4:1" d	4:7" d	4:5" b	1:2" d
Load Width (ft.)	2" x 2" x 0.044" w/ Snap Cap Attached				1" x 2" x 0.044" to 2" x 2" Existing			
	1 & 2 Span	3 Span	4 Span	Max. Cantilever	1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	7:5" d	8:5" d	8:2" d	1:11" d	7:5" d	8:5" d	8:2" d	1:11" d
6	6:11" d	7:8" d	7:5" b	1:9" d	6:11" d	7:8" d	7:5" b	1:9" d
7	6:4" d	7:2" d	6:11" b	1:8" d	5:11" d	6:5" d	6:5" d	1:7" d
8	5:11" d	6:8" d	6:5" b	1:7" d	5:7" d	6:3" d	6:3" d	1:7" d
9	5:7" d	6:3" d	6:1" b	1:7" d	5:7" d	6:3" d	6:1" b	1:7" d
10	5:4" d	5:11" d	5:9" d	1:6" d	4:8" d	5:9" d	5:9" d	1:6" d
11	5:1" d	5:8" d	5:6" d	1:5" d	4:8" d	5:6" d	5:6" d	1:5" d
12	4:10" d	5:5" d	5:3" d	1:5" d	4:10" d	5:5" d	5:3" d	1:5" d

Notes:
1. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
2. Spans may be interpolated.

Table 3B.1.3-120 Allowable Edge Beam Spans - Hollow Extrusions
For Screen Rooms Converted to or Typical Construction of Glass / Enclosed Rooms
For 3 second wind gust at 120 MPH velocity; using design load of 27 #/SF (43 #/SF for Max. Cantilever)
Aluminum Alloy 6063 T-6

Load Width (ft.)	2" x 2" x 0.044" w/ Snap Cap Attached				1" x 2" x 0.044" to 2" x 2" Existing			
	1 & 2 Span	3 Span	4 Span	Max. Cantilever	1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	4:11" d	5:9" d	5:6" b	1:3" d	5:8" d	6:7" d	6:4" b	1:5" d
6	4:8" d	5:3" d	5:1" b	1:2" d	5:4" d	6:2" d	5:10" b	1:4" d
7	4:4" d	4:10" d	4:8" b	1:1" d	4:11" d	5:7" d	5:4" b	1:4" d
8	4:1" d	4:8" d	4:6" b	1:1" d	4:8" d	5:2" d	5:0" b	1:3" d
9	3:10" d	4:3" d	4:2" d	1:0" d	4:5" d	4:11" d	4:9" b	1:2" d
10	3:8" d	4:1" d	3:11" b	0:11" d	4:2" d	4:8" d	4:6" b	1:2" d
11	3:5" d	3:10" d	3:9" d	0:11" d	3:11" d	4:5" d	4:3" b	1:1" d
12	3:4" d	3:8" d	3:7" d	0:11" d	3:10" d	4:3" d	4:1" b	1:1" d
Load Width (ft.)	2" x 2" x 0.044" w/ Snap Cap Attached				1" x 2" x 0.044" to 2" x 2" Existing			
	1 & 2 Span	3 Span	4 Span	Max. Cantilever	1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	6:11" d	7:9" d	7:6" d	1:9" d	6:11" d	7:9" d	7:6" d	1:9" d
6	6:4" d	7:1" d	6:10" d	1:8" d	5:11" d	6:5" d	6:5" d	1:7" d
7	5:11" d	6:7" d	6:4" d	1:7" d	5:11" d	6:5" d	6:5" d	1:7" d
8	5:8" d	6:2" d	5:11" b	1:6" d	4:11" d	5:8" d	5:8" d	1:6" d
9	5:2" d	5:10" d	5:7" d	1:6" d	4:11" d	5:8" d	5:8" d	1:6" d
10	4:11" d	5:6" d	5:4" d	1:5" d	4:11" d	5:6" d	5:4" d	1:5" d
11	4:8" d	5:3" d	5:1" d	1:5" d	4:8" d	5:3" d	5:1" d	1:5" d
12	4:6" d	5:0" d	4:10" d	1:4" d	4:6" d	5:0" d	4:10" d	1:4" d

Table 3B.1.4-110 Allowable Spans For Fourth Wall or Miscellaneous Framing Beams for Glass & Modular Rooms
For 3 second wind gust at 110 MPH velocity; using design load of 23 #SF
Aluminum Alloy 6063 T-6

Single Self-Mating Beams	Tributary Load Width											
	4'-0"	6'-0"	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"
2" x 4" x 0.044 x 0.100"	9'-1" d	7'-11" d	7'-3" b	6'-5" b	5'-11" b	5'-5" b	5'-1" b	4'-10" b	4'-7" b	4'-4" b	4'-2" b	4'-0" b
2" x 5" x 0.050 x 0.100"	11'-4" d	9'-10" d	8'-11" b	7'-4" b	6'-9" b	6'-4" b	5'-11" b	5'-8" b	5'-5" b	5'-2" b	4'-11" b	4'-1" b
2" x 6" x 0.056 x 0.120"	13'-3" d	11'-7" d	10'-4" b	9'-3" b	8'-3" b	7'-10" b	6'-6" b	6'-1" b	5'-8" b	5'-5" b	5'-1" b	5'-9" b
2" x 7" x 0.055 x 0.120"	15'-1" d	13'-2" d	11'-8" b	10'-5" b	9'-5" b	8'-7" b	7'-9" b	7'-4" b	7'-0" b	6'-9" b	6'-5" b	6'-5" b
2" x 8" x 0.055 x 0.120"	18'-2" d	15'-11" d	14'-5" d	13'-5" d	12'-3" b	11'-8" b	10'-11" b	10'-4" b	9'-9" b	9'-4" b	8'-11" b	8'-4" b
2" x 8" x 0.072 x 0.224"	18'-8" d	16'-4" d	14'-10" d	13'-5" d	12'-3" b	11'-4" b	10'-8" b	10'-0" b	9'-6" b	9'-1" b	8'-8" b	8'-4" b
2" x 9" x 0.072 x 0.224"	20'-5" d	17'-11" d	16'-3" d	14'-7" d	13'-5" d	12'-4" d	11'-8" d	11'-0" d	10'-4" d	10'-0" d	9'-5" d	9'-0" d
2" x 9" x 0.092 x 0.306"	21'-3" d	18'-6" d	16'-10" d	14'-7" d	13'-5" d	12'-4" d	11'-8" d	11'-0" d	10'-4" d	10'-0" d	9'-5" d	9'-0" d
2" x 10" x 0.092 x 0.369"	25'-6" d	22'-4" d	20'-3" d	18'-10" d	17'-7" d	16'-3" d	15'-2" d	14'-4" d	13'-7" d	13'-1" d	12'-5" d	11'-11" d

Note:
1. It is recommended that the engineer be consulted on any miscellaneous framing beam that spans more than 40'.
2. Spans are based on 110 M.P.H. wind load plus dead load for framing.
3. Spans are measured from center of connection to fascia or wall connection.
4. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
5. Spans may be interpolated.

Table 3B.1.4-120 Allowable Spans For Fourth Wall or Miscellaneous Framing Beams for Glass & Modular Rooms
For 3 second wind gust at 120 MPH velocity; using design load of 27 #SF
Aluminum Alloy 6063 T-6

Single Self-Mating Beams	Tributary Load Width											
	4'-0"	6'-0"	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"
2" x 4" x 0.044 x 0.100"	8'-8" d	7'-7" d	6'-8" b	5'-11" b	5'-5" b	5'-0" b	4'-9" b	4'-5" b	4'-3" b	4'-0" b	3'-10" b	3'-8" b
2" x 5" x 0.050 x 0.100"	10'-8" d	9'-4" d	8'-3" b	7'-4" b	6'-9" b	6'-3" b	5'-10" b	5'-6" b	5'-3" b	4'-11" b	4'-9" b	4'-7" b
2" x 6" x 0.056 x 0.120"	12'-6" d	10'-11" d	9'-5" b	8'-6" b	7'-9" b	7'-3" b	6'-9" b	6'-4" b	6'-0" b	5'-9" b	5'-6" b	5'-3" b
2" x 7" x 0.055 x 0.120"	14'-3" d	12'-5" d	10'-9" b	9'-7" b	8'-9" b	8'-1" b	7'-7" b	7'-2" b	6'-9" b	6'-6" b	6'-2" b	5'-11" b
2" x 8" x 0.055 x 0.120"	17'-3" d	15'-1" d	13'-8" d	12'-8" d	12'-8" d	11'-4" b	10'-10" b	10'-1" b	9'-6" b	9'-0" b	8'-3" b	7'-11" b
2" x 8" x 0.072 x 0.224"	17'-8" d	15'-5" d	13'-10" b	12'-5" b	11'-4" b	10'-6" b	9'-3" b	9'-0" b	8'-4" b	8'-0" b	7'-7" b	7'-1" b
2" x 9" x 0.072 x 0.224"	19'-5" d	16'-11" d	15'-0" d	13'-5" d	12'-3" b	11'-4" b	10'-8" b	10'-0" b	9'-6" b	9'-1" b	8'-8" b	8'-4" b
2" x 9" x 0.092 x 0.306"	20'-1" d	17'-7" d	15'-11" d	14'-9" d	13'-6" d	12'-6" d	11'-0" d	10'-5" d	9'-1" d	8'-6" d	8'-2" d	7'-7" d
2" x 10" x 0.092 x 0.369"	24'-2" d	21'-2" d	19'-2" d	17'-9" d	16'-2" d	14'-11" b	14'-0" b	13'-3" b	12'-7" b	12'-1" b	11'-5" b	11'-0" b

Note:
1. It is recommended that the engineer be consulted on any miscellaneous framing beam that spans more than 40'.
2. Spans are based on 120 M.P.H. wind load plus dead load for framing.
3. Spans are measured from center of connection to fascia or wall connection.
4. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
5. Spans may be interpolated.

Table 3B.1.4-130 Allowable Spans For Fourth Wall or Miscellaneous Framing Beams for Glass & Modular Rooms
For 3 second wind gust at 130 MPH velocity; using design load of 32 #SF
Aluminum Alloy 6063 T-6

Single Self-Mating Beams	Tributary Load Width											
	4'-0"	6'-0"	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"
2" x 4" x 0.044 x 0.100"	8'-2" d	7'-1" b	6'-1" b	5'-6" b	4'-11" b	4'-8" b	4'-4" b	4'-1" b	3'-10" b	3'-6" b	3'-6" b	3'-5" b
2" x 5" x 0.050 x 0.100"	10'-1" d	8'-9" b	7'-7" b	6'-9" b	6'-2" b	5'-9" b	5'-4" b	5'-1" b	4'-9" b	4'-7" b	4'-4" b	4'-2" b
2" x 6" x 0.056 x 0.120"	11'-10" d	10'-1" b	8'-9" b	7'-10" b	7'-2" b	6'-7" b	6'-2" b	5'-10" b	5'-6" b	5'-3" b	5'-1" b	4'-10" b
2" x 7" x 0.055 x 0.120"	13'-6" d	11'-5" b	9'-10" b	8'-10" b	8'-1" b	7'-5" b	6'-7" b	6'-3" b	5'-11" b	5'-8" b	5'-6" b	5'-6" b
2" x 8" x 0.055 x 0.120"	16'-4" d	14'-3" d	12'-11" d	11'-9" d	10'-9" d	9'-11" b	9'-3" b	8'-4" b	7'-11" b	7'-7" b	7'-3" b	7'-3" b
2" x 8" x 0.072 x 0.224"	16'-9" d	14'-7" d	12'-9" d	11'-5" b	10'-3" b	9'-8" b	9'-0" b	8'-6" b	8'-1" b	7'-8" b	7'-4" b	7'-1" b
2" x 9" x 0.072 x 0.224"	18'-4" d	15'-11" d	13'-10" d	12'-4" d	11'-3" d	10'-5" d	9'-9" d	9'-3" d	8'-9" d	8'-4" d	7'-11" d	7'-8" d
2" x 9" x 0.092 x 0.306"	19'-0" d	16'-7" d	15'-1" d	13'-7" d	12'-5" d	11'-6" d	10'-9" d	9'-7" d	9'-2" d	8'-9" d	8'-5" d	8'-5" d
2" x 10" x 0.092 x 0.369"	22'-10" d	19'-11" d	18'-2" d	16'-4" b	14'-11" b	13'-9" b	12'-11" b	12'-2" b	11'-6" b	10'-11" b	10'-6" b	10'-1" b

Note:
1. It is recommended that the engineer be consulted on any miscellaneous framing beam that spans more than 40'.
2. Spans are based on 130 M.P.H. wind load plus dead load for framing.
3. Spans are measured from center of connection to fascia or wall connection.
4. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
5. Spans may be interpolated.

Table 3B.1.4-140 Allowable Spans For Fourth Wall or Miscellaneous Framing Beams for Glass & Modular Rooms
For 3 second wind gust at 140 MPH velocity; using design load of 37 #SF
Aluminum Alloy 6063 T-6

Single Self-Mating Beams	Tributary Load Width											
	4'-0"	6'-0"	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"
2" x 4" x 0.044 x 0.100"	7'-9" d	6'-7" b	5'-8" b	5'-1" b	4'-8" b	4'-4" b	4'-0" b	3'-10" b	3'-7" b	3'-5" b	3'-3" b	3'-2" b
2" x 5" x 0.050 x 0.100"	9'-8" d	8'-2" b	7'-1" b	6'-4" b	5'-9" b	5'-4" b	4'-11" b	4'-8" b	4'-5" b	4'-3" b	4'-1" b	3'-11" b
2" x 6" x 0.056 x 0.120"	11'-3" d	9'-5" b	8'-2" b	7'-3" b	6'-8" b	6'-2" b	5'-9" b	5'-2" b	4'-11" b	4'-8" b	4'-6" b	4'-6" b
2" x 7" x 0.055 x 0.120"	12'-10" d	10'-7" d	9'-2" b	8'-2" b	7'-6" b	6'-11" b	6'-6" b	6'-1" b	5'-10" b	5'-6" b	5'-4" b	5'-1" b
2" x 8" x 0.055 x 0.120"	15'-6" d	13'-7" d	12'-2" d	10'-11" b	9'-11" b	9'-3" b	8'-9" b	8'-2" b	7'-9" b	7'-4" b	6'-9" b	6'-9" b
2" x 8" x 0.072 x 0.224"	15'-11" d	13'-8" d	11'-10" b	10'-10" b	9'-11" b	8'-5" b	7'-11" b	7'-6" b	7'-2" b	6'-10" b	6'-7" b	6'-7" b
2" x 9" x 0.072 x 0.224"	17'-6" d	14'-10" d	12'-10" b	11'-6" b	10'-6" b	9'-9" b	9'-1" b	8'-7" b	8'-1" b	7'-9" b	7'-5" b	7'-2" b
2" x 9" x 0.092 x 0.306"	18'-1" d	15'-10" d	14'-1" d	12'-7" d	11'-6" d	10'-8" d	9'-1" d	8'-1" d	7'-9" d	7'-5" d	7'-2" d	7'-10" d
2" x 10" x 0.092 x 0.369"	21'-9" d	19'-0" d	16'-11" b	15'-2" b	13'-10" b	12'-10" b	11'-11" b	11'-4" b	10'-9" b	10'-3" b	9'-9" b	9'-5" b

Note:
1. It is recommended that the engineer be consulted on any miscellaneous framing beam that spans more than 40'.
2. Spans are based on 140 M.P.H. wind load plus dead load for framing.
3. Spans are measured from center of connection to fascia or wall connection.
4. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
5. Spans may be interpolated.

Table 3B.1.5-110 Allowable Spans For Ridge Beams with Self Mating Beams or Square Tubes
For 3 second wind gust at 110 MPH velocity; using design load of 23 #SF

Self Mating Sections	Tributary Load Width W _r = Purlin Spacing											
	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"
2" x 4" x 0.044 x 0.100"	10'-3" b	9'-4" b	8'-8" b	8'-1" b	7'-5" b	7'-3" b	6'-11" b	6'-7" b	6'-7" b	6'-1" b	5'-11" b	5'-7" b
2" x 5" x 0.050 x 0.100"	12'-6" b	11'-6" b	10'-8" b	9'-11" b	9'-5" b	8'-11" b	8'-6" b	8'-2" b	8'-2" b	7'-5" b	7'-1" b	6'-9" b
2" x 6" x 0.056 x 0.120"	14'-5" b	13'-4" b	12'-4" b	11'-7" b	10'-11" b	10'-4" b	9'-5" b	9'-5" b	8'-9" b	8'-2" b	7'-7" b	7'-3" b
2" x 7" x 0.055 x 0.120"	16'-5" b	15'-0" b	13'-0" b	12'-3" b	11'-8" b	11'-1" b	10'-7" b	10'-7" b	10'-1" b	9'-4" b	8'-9" b	8'-5" b
2" x 8" x 0.055 x 0.120"	21'-3" b	19'-5" b	17'-4" b	16'-6" b	15'-4" b	15'-0" b	14'-9" b	14'-2" b	13'-9" b	13'-9" b	13'-9" b	13'-9" b
2" x 8" x 0.072 x 0.224"	23'-1" b	21'-0" b	19'-5" b	18'-3" b	17'-2" b	16'-4" b	15'-6" b	14'-10" b	14'-10" b	14'-10" b	14'-10" b	14'-10" b
2" x 9" x 0.072 x 0.224"	25'-4" b	23'-1" b	21'-5" b	19'-11" b	18'-10" b	17'-11" b	17'-1" b	16'-4" b	16'-4" b	16'-4" b	16'-4" b	16'-4" b
2" x 10" x 0.092 x 0.369"	30'-5" b	27'-9" b	25'-9" b	24'-0" b	22'-8" b	21'-6" b	21'-6" b	21'-6" b	21'-6" b	21'-6" b	21'-6" b	21'-6" b

Note:
1. Glass Rooms. The addition of aluminum frame windows with glass panes that are designed to 110 M.P.H. wind load requirements to the above upright sizes increases the strength so that additional framing is not required.
2. Tables assume extrusion oriented with longer extrusion dimension parallel to applied load.
3. Spans may be interpolated.

Table 3B.1.5-120 Allowable Spans For Ridge Beams with Self Mating Beams
For 3 second wind gust at 120 MPH velocity; using design load of 27 #SF

Self Mating Sections	Tributary Load Width W _r = Purlin Spacing											
	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"
2" x 4" x 0.044 x 0.100"	9'-5" b	8'-7" b	7'-11" b	7'-5" b	7'-0" b	6'-8" b	6'-4" b	6'-1" b	6'-1" b	5'-7" b	5'-3" b	5'-3" b
2" x 5" x 0.050 x 0.100"	11'-6" b	10'-9" b	9'-10" b	9'-3" b	8'-8" b	8'-3" b	7'-10" b	7'-6" b	7'-6" b	7'-1" b	6'-7" b	6'-3" b
2" x 6" x 0.056 x 0.120"	13'-6" b	12'-4" b	11'-5" b	10'-8" b	10'-1" b	9'-5" b	9'-1" b	8'-9" b	8'-9" b	8'-4" b	8'-0" b	7'-6" b
2" x 7" x 0.055 x 0.120"	15'-2" b	13'-10" b	12'-10" b	12'-0" b	11'-4" b	10'-9" b	10'-3" b	9'-10" b	9'-10" b	9'-5" b	9'-1" b	8'-7" b
2" x 8" x 0.055 x 0.120"	20'-2" b	18'-5" b	17'-1" b	15'-11" b	15'-1" b	14'-3" b	13'-7" b	13'-0" b	13'-0" b	12'-8" b	12'-8" b	12'-8" b
2" x 8" x 0.072 x 0.224"	21'-3" b	19'-5" b	17'-1" b	15'-6" b	14'-7" b	13'-10" b	13'-3" b	13'-3" b	13'-3" b	13'-3" b	13'-3" b	13'-3" b
2" x 9" x 0.072 x 0.224"	23'-4" b	21'-4" b	19'-9" b	18'-5" b	17'-10" b	16'-5" b	16'-5" b	16'-5" b	16'-5" b	16'-5" b	16'-5" b	16'-5" b
2" x 10" x 0.092 x 0.369"	28'-1" b	25'-7" b	23'-9" b	22'-2" b	20'-11" b	19'-10" b	18'-11" b	18'-1" b	18'-1" b	18'-1" b	18'-1" b	18'-1" b

Note:
1. Glass Rooms. The addition of aluminum frame windows with glass panes that are designed to 120 M.P.H. wind load requirements to the above upright sizes increases the strength so that additional framing is not required.
2. Tables assume extrusion oriented with longer extrusion dimension parallel to applied load.
3. Spans may be interpolated.

Table 3B.1.5-130 Allowable Spans For Ridge Beams with Self Mating Beams
For 3 second wind gust at 130 MPH velocity; using design load of 32 #SF

Self Mating Sections	Tributary Load Width W _r = Purlin Spacing											
	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"
2" x 4" x 0.044 x 0.100"	8'-1" b	7'-4" b	6'-10" b	6'-4" b	5'-11" b	5'-8" b	5'-5" b	5'-2" b	5'-2" b	4'-11" b	4'-7" b	4'-7" b
2" x 5" x 0.050 x 0.100"	9'-11" b	9'-1" b	8'-5" b	7'-10" b	7'-5" b	7'-1" b	6'-9" b	6'-5" b	6'-5" b	6'-1" b		

Table 3B.2.1 Allowable Upright Heights, Chair Rail Spans or Header Spans
For Glass & Modular Rooms
Aluminum Alloy 6063 T-6

For 3 second wind gust at 110 MPH velocity; using design load of 18 MSF

Sections	Tributary Load Width "w" = Purlin Spacing									
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"
2" x 2" x 0.044" Hollow	6'-10" d	6'-6" d	6'-2" d	5'-11" d	5'-8" d	5'-5" d	5'-2" d	5'-0" d	4'-10" b	4'-8" b
2" x 2" x 0.055" Hollow	7'-3" d	6'-10" d	6'-7" d	6'-2" d	6'-0" d	5'-7" d	5'-4" d	5'-1" d	4'-11" b	4'-9" b
3" x 2" x 0.045" Hollow	7'-9" d	7'-4" d	7'-0" d	6'-5" d	6'-2" d	5'-9" d	5'-6" d	5'-3" d	5'-1" b	5'-1" b
3" x 2" x 0.070" Hollow	8'-8" d	8'-3" d	7'-11" d	7'-7" d	7'-4" d	7'-1" d	6'-11" d	6'-7" d	6'-7" d	6'-5" d
2" x 3" x 0.045" Hollow	9'-7" d	9'-1" d	8'-7" d	8'-4" b	8'-1" b	7'-10" b	7'-7" b	7'-4" b	7'-3" b	7'-0" b
2" x 3" x 0.050" S.M.B.	12'-5" d	11'-9" d	11'-0" b	10'-4" b	9'-10" b	9'-5" b	8'-11" b	8'-8" b	8'-4" b	8'-3" b
2" x 5" x 0.050" S.M.B.	17'-2" d	16'-4" d	15'-0" d	15'-0" d	13'-7" b	13'-0" b	13'-0" b	12'-1" b	11'-8" b	11'-8" b
2" x 5" x 0.055" S.M.B.	20'-1" d	19'-1" d	18'-3" d	17'-5" b	16'-6" b	15'-9" b	15'-1" b	14'-6" b	13'-11" b	13'-6" b
2" x 2" x 0.044" Snap	7'-4" d	7'-4" d	6'-11" d	6'-9" d	6'-6" d	6'-3" d	6'-2" d	5'-11" d	5'-7" d	5'-7" d
2" x 2" x 0.045" Snap	10'-4" d	9'-10" d	9'-1" d	8'-5" d	8'-4" d	7'-11" d	7'-8" d	7'-4" d	7'-4" d	7'-1" d
2" x 4" x 0.045" Snap	13'-1" d	12'-5" d	11'-11" d	11'-3" d	10'-8" d	10'-2" b	9'-9" d	9'-4" d	8'-11" b	8'-8" b

For 3 second wind gust at 120 MPH velocity; using design load of 22 MSF

Sections	Tributary Load Width "w" = Purlin Spacing									
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"
2" x 2" x 0.044" Hollow	6'-5" d	6'-1" d	5'-9" d	5'-9" d	5'-5" d	5'-2" d	4'-11" b	4'-8" b	4'-6" b	4'-3" b
2" x 2" x 0.055" Hollow	6'-9" d	6'-5" d	6'-2" d	5'-11" d	5'-8" d	5'-4" d	5'-2" d	4'-11" b	4'-8" b	4'-7" b
3" x 2" x 0.045" Hollow	7'-3" d	6'-10" d	6'-7" d	6'-4" d	6'-1" d	5'-11" d	5'-8" d	5'-5" d	5'-3" b	5'-1" b
3" x 2" x 0.070" Hollow	8'-1" d	7'-9" d	7'-5" d	7'-1" d	6'-10" d	6'-8" d	6'-5" d	6'-3" d	6'-1" d	5'-11" d
2" x 3" x 0.045" Hollow	8'-11" d	8'-4" b	7'-9" b	7'-4" b	6'-11" b	6'-8" b	6'-5" b	6'-3" b	6'-1" b	5'-8" b
2" x 3" x 0.050" S.M.B.	11'-5" d	10'-8" d	9'-11" d	9'-5" d	8'-11" d	8'-8" d	8'-5" d	8'-1" d	7'-10" d	7'-7" d
2" x 5" x 0.050" S.M.B.	16'-1" d	15'-3" d	14'-5" d	13'-7" d	12'-4" d	12'-4" d	11'-4" d	10'-11" d	10'-7" d	10'-3" d
2" x 5" x 0.055" S.M.B.	18'-10" d	17'-10" d	16'-8" d	15'-9" d	14'-3" d	13'-8" d	13'-1" d	12'-8" d	12'-2" d	12'-2" d
2" x 2" x 0.044" Snap	7'-2" d	6'-10" d	6'-6" d	6'-1" d	5'-10" d	5'-7" d	5'-5" d	5'-2" d	5'-2" d	5'-0" d
2" x 3" x 0.045" Snap	9'-8" d	9'-3" d	8'-10" d	8'-4" d	7'-10" d	7'-6" d	7'-2" d	6'-11" d	6'-8" d	6'-5" d
2" x 4" x 0.045" Snap	12'-3" d	11'-6" d	10'-9" d	10'-2" d	9'-8" d	9'-2" d	8'-9" d	8'-5" d	8'-2" d	7'-10" d

Notes:
1. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
2. Spans may be interpolated.

Table 3B.2.2 Allowable Upright Heights, Chair Rail Spans or Header Spans
For Glass & Modular Rooms
Aluminum Alloy 6063 T-6

For 3 second wind gust at 130 MPH velocity; using design load of 25 MSF

Sections	Tributary Load Width "w" = Purlin Spacing									
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"
2" x 2" x 0.044" Hollow	6'-1" d	5'-10" d	5'-7" d	5'-4" d	5'-2" d	5'-0" d	4'-10" d	4'-9" d	4'-7" d	4'-6" d
2" x 2" x 0.055" Hollow	6'-6" d	6'-2" d	5'-11" d	5'-8" d	5'-6" d	5'-4" d	5'-2" d	4'-10" d	4'-11" d	4'-9" d
3" x 2" x 0.045" Hollow	6'-11" d	6'-7" d	6'-4" d	6'-1" d	5'-10" d	5'-8" d	5'-6" d	5'-4" d	5'-3" d	5'-1" d
3" x 2" x 0.070" Hollow	7'-9" d	7'-5" d	7'-1" d	6'-10" d	6'-7" d	6'-4" d	6'-2" d	5'-10" d	5'-9" d	5'-7" d
2" x 3" x 0.045" Hollow	8'-7" d	8'-2" d	7'-10" d	7'-6" d	7'-3" d	7'-0" d	6'-8" d	6'-6" d	6'-3" d	6'-3" d
2" x 3" x 0.050" S.M.B.	11'-2" d	10'-7" d	10'-1" d	9'-5" d	9'-2" d	8'-11" d	8'-10" d	8'-7" d	8'-4" b	8'-0" b
2" x 5" x 0.050" S.M.B.	15'-5" d	14'-7" d	13'-11" d	13'-5" d	12'-11" d	12'-7" d	12'-3" d	11'-11" d	11'-7" d	11'-4" d
2" x 5" x 0.055" S.M.B.	18'-0" d	17-1" d	16-4" d	15-9" d	14-9" d	14-8" d	13-11" d	13-7" d	13-3" d	13-3" d
2" x 2" x 0.044" Snap	6'-11" d	6'-7" d	6'-3" d	6'-0" d	5'-10" d	5'-8" d	5'-6" d	5'-4" d	5'-2" d	5'-1" d
2" x 3" x 0.045" Snap	9'-4" d	8'-10" d	8'-5" d	8'-1" d	7'-10" d	7'-7" d	7'-5" d	7'-2" d	7'-0" d	6'-10" d
2" x 4" x 0.045" Snap	11'-9" d	11'-2" d	10'-8" d	10'-3" d	9'-11" d	9'-7" d	9'-4" d	9'-1" d	8'-10" d	8'-8" d

For 3 second wind gust at 140 MPH velocity; using design load of 29 MSF

Sections	Tributary Load Width "w" = Purlin Spacing									
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"
2" x 2" x 0.044" Hollow	5'-10" b	5'-4" b	5'-0" b	4'-9" b	4'-6" b	4'-3" b	4'-1" b	3'-11" b	3'-10" b	3'-8" b
2" x 2" x 0.055" Hollow	6'-2" d	5'-10" b	5'-6" b	5'-2" b	5'-1" b	4'-8" b	4'-6" b	4'-4" b	4'-2" b	4'-0" b
3" x 2" x 0.045" Hollow	6'-7" d	6'-3" d	5'-11" d	5'-8" d	5'-5" d	5'-2" d	4'-11" d	4'-8" d	4'-7" d	4'-5" d
3" x 2" x 0.070" Hollow	7'-5" d	7'-0" d	6'-9" d	6'-5" d	6'-1" d	5'-10" d	5'-7" d	5'-5" d	5'-3" b	5'-3" b
2" x 3" x 0.045" Hollow	7'-10" b	7'-3" b	6'-9" b	6'-5" b	6'-1" b	5'-9" b	5'-6" b	5'-2" b	4'-11" b	4'-11" b
2" x 3" x 0.050" S.M.B.	10'-0" b	9'-3" b	8'-8" b	8'-2" b	7'-9" b	7'-5" b	7'-1" b	6'-10" b	6'-7" b	6'-4" b
2" x 5" x 0.050" S.M.B.	14'-6" b	13'-5" b	12'-7" b	11'-10" b	11'-3" b	10'-9" b	10'-3" b	9'-10" b	9'-6" b	9'-2" b
2" x 5" x 0.055" S.M.B.	16'-10" b	15'-7" b	14'-7" b	13'-9" b	13'-0" b	12'-5" b	11'-11" b	11'-5" b	10'-11" b	10'-8" b
2" x 2" x 0.044" Snap	6'-7" d	6'-3" d	5'-11" d	5'-8" d	5'-4" d	5'-1" d	4'-11" d	4'-8" d	4'-8" d	4'-6" d
2" x 3" x 0.045" Snap	8'-10" d	8'-2" d	7'-8" d	7'-3" d	6'-10" d	6'-7" d	6'-4" d	6'-0" d	5'-7" d	5'-7" d
2" x 4" x 0.045" Snap	10'-10" b	10'-0" b	9'-5" b	8'-10" b	8'-5" b	7'-11" b	7'-8" b	7'-4" b	7'-1" b	6'-10" b

Notes:
1. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
2. Spans may be interpolated.

Table 3B.3.1-110 Allowable Upright Heights, Chair Rail Spans or Header Spans - Hollow Extrusions
For Screen Rooms Converted to Glass / Enclosed Rooms
Aluminum Alloy 6063 T-6

For 3 second wind gust at 110 MPH velocity; using design load of 18 MSF

Sections	Tributary Load Width "w" = Purlin Spacing									
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"
2" x 2" x 0.044" with Snap Cap attached	8'-7" d	8'-2" d	7'-9" d	7'-5" d	7'-0" d	6'-8" b	6'-5" b	6'-2" b	5'-11" b	5'-9" b
1" x 2" x 0.044" to 2" x 2" x Existing	9'-10" d	9'-4" d	8'-11" d	8'-6" b	8'-1" b	7'-8" b	7'-4" b	7'-1" b	6'-10" b	6'-7" b
2" x 2" x 0.044" to 2" x 2" x Existing	12'-1" d	11'-5" b	10'-8" b	10'-1" b	9'-6" b	9'-1" b	8'-8" b	8'-4" b	8'-1" b	7'-9" b
3" x 3" x 0.093" Sq. Tube	12'-9" d	12'-2" d	11'-7" d	11'-2" d	10'-9" d	10'-5" d	10'-2" d	9'-11" d	9'-8" d	9'-5" d
3" x 3" x 0.093" to (1)	13'-9" d	13'-1" d	12'-6" d	12'-0" d	11'-7" d	11'-3" d	11'-0" d	10'-7" d	10'-4" d	10'-2" d
1" x 3" x 0.044" Open Back (Load to 4" Direction)	13'-11" d	13'-3" d	12'-8" d	12'-2" d	11'-9" d	11'-5" d	11'-1" d	10'-10" d	10'-6" d	10'-3" d
3" x 3" x 0.125" Sq. Tube	14'-7" d	13'-10" d	13'-3" d	12'-8" d	12'-4" d	11'-11" d	11'-7" d	11'-3" d	10'-11" d	10'-6" d
3" x 3" x 0.093" to (2)	14'-7" d	13'-10" d	13'-3" d	12'-8" d	12'-4" d	11'-11" d	11'-7" d	11'-3" d	10'-11" d	10'-6" d
1" x 3" x 0.044" Open Back (Load to 4" Direction)	15'-5" d	14'-7" d	13'-11" d	13'-5" d	13'-1" d	12'-7" d	12'-3" d	11'-11" d	11'-6" d	11'-1" d
4" x 4" x 0.125" Sq. Tube	18'-10" d	17'-11" d	17'-1" d	16'-5" d	15'-10" d	15'-5" d	15'-1" d	14'-7" d	14'-2" d	13'-10" d

Notes:
* Load assumed to be applied in the direction normal to the specified side.
Spans may be interpolated.

Table 3B.3.1-120 Allowable Upright Heights, Chair Rail Spans or Header Spans - Hollow Extrusions
For Screen Rooms Converted to Glass / Enclosed Rooms
Aluminum Alloy 6063 T-6

For 3 second wind gust at 120 MPH velocity; using design load of 22 MSF

Sections	Tributary Load Width "w" = Purlin Spacing									
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"
2" x 2" x 0.044" with Snap Cap attached	8'-4" b	7'-9" b	7'-3" b	6'-10" b	6'-5" b	6'-2" b	5'-11" b	5'-8" b	5'-5" b	5'-3" b
1" x 2" x 0.044" to 2" x 2" x Existing	9'-2" d	8'-9" d	8'-2" d	7'-8" d	7'-3" d	6'-11" d	6'-8" d	6'-5" d	6'-2" d	5'-11" d
2" x 2" x 0.044" to 2" x 2" x Existing	11'-2" b	10'-4" b	9'-8" b	9'-1" b	8'-7" b	8'-3" b	8'-0" b	7'-10" b	7'-7" b	7'-0" b
3" x 3" x 0.093" Sq. Tube	11'-11" d	11'-4" d	10'-10" d	10'-5" d	10'-1" d	9'-9" d	9'-5" d	9'-3" d	9'-0" d	8'-9" d
3" x 3" x 0.093" to (1)	12'-10" d	12'-3" d	11'-8" d	11'-3" d	10'-10" d	10'-6" d	10'-2" d	9'-11" d	9'-8" d	9'-5" d
1" x 3" x 0.044" Open Back (Load to 4" Direction)	13'-1" d	12'-5" d	11'-10" d	11'-5" d	11'-0" d	10'-8" d	10'-4" d	10'-1" d	9'-10" d	9'-7" d
3" x 3" x 0.125" Sq. Tube	13'-8" d	12'-11" d	12'-5" d	11'-11" d	11'-6" d	11'-2" d	10'-10" d	10'-7" d	10'-3" d	10'-1" d
1" x 3" x 0.044" Open Back (Load to 4" Direction)	14'-5" d	13'-8" d	13'-1" d	12'-7" d	12'-2" d	11'-9" d	11'-3" b	10'-9" b	10'-5" b	10'-0" b
4" x 4" x 0.125" Sq. Tube	17'-7" d	16'-9" d	15'-11" d	15'-5" d	14'-10" d	14'-5" d	13'-11" d	13'-7" d	13'-3" d	12'-11" d

Notes:
* Load assumed to be applied in the direction normal to the specified side.
Spans may be interpolated.

Table 3B.3.1-130 Allowable Upright Heights, Chair Rail Spans or Header Spans - Hollow Extrusions
For Screen Rooms Converted to Glass / Enclosed Rooms
Aluminum Alloy 6063 T-6

For 3 second wind gust at 130 MPH velocity; using design load of 25 MSF

Sections	Tributary Load Width "w" = Purlin Spacing									
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"
2" x 2" x 0.044" with Snap Cap attached	8'-2" b	7'-7" b	7'-1" b	6'-8" b	6'-4" b	6'-0" b	5'-9" b	5'-6" b	5'-4" b	5'-2" b
1" x 2" x 0.044" to 2" x 2" x Existing	8'-5" b	7'-10" b	7'-3" b	6'-10" b	6'-6" b	6'-3" b	5'-11" b	5'-9" b	5'-6" b	5'-4" b
2" x 2" x 0.044" to 2" x 2" x Existing	9'-2" b	8'-5" b	7'-11" b	7'-5" b	7'-1" b	6'-9" b	6'-5" b	6'-2" b	5'-11" b	5'-9" b
3" x 3" x 0.093" Sq. Tube	11'-1" d	10'-6" d	10'-1" d	9'-6" d	9'-4" d	9'-1" d	8'-9" b	8'-5" b	8'-1" b	7'-10" b
3" x 3" x 0.093" to (1)	11'-11" d	11'-4" d	10'-10" d	10'-5" d	10'-1" d	9'-9" d	9'-6" d	9'-3" d	9'-0" d	8'-9" d
1" x 3" x 0.044" Open Back (Load to 4" Direction)	11'-3" x 0.044" Open Back (Load to 3" Direction)	12'-2" d	11'-7" d	11'-1" d	10'-7" d	10'-3" d	9'-11" d	9'-8" d	9'-5" d	9'-2" d
3" x 3" x 0.125" Sq. Tube	12'-2" d	11'-7" d	11'-1" d	10'-7" d	10'-3" d</					

Table 3B.5.1 Allowable Spans for Industry Standard Composite Roof Panels for Various Loads for 3" Modular Rooms

Wind Region	Enclosed			Overhang/ Cantilever	Wind Region	Enclosed			Overhang/ Cantilever
	span	span	span			span	span	span	
100 MPH	11'-5"	13'-8"	13'-3"	All	100 MPH	14'-6"	15'-2"	15'-6"	All
110 MPH	10'-6"	12'-6"	11'-5"	4'-0"	110 MPH	13'-3"	14'-3"	14'-3"	4'-0"
120 MPH	9'-5"	10'-10"	10'-6"	4'-1"	120 MPH	11'-5"	13'-5"	13'-0"	4'-0"
123 MPH	9'-5"	10'-7"	10'-3"	3'-11"	123 MPH	11'-2"	13'-1"	12'-6"	4'-0"
130 MPH	9'-0"	10'-1"	9'-9"	3'-3"	130 MPH	10'-8"	12'-5"	11'-6"	4'-0"
140 MPH	8'-4"	9'-4"	9'-0"	2'-11"	140 MPH	9'-11"	11'-1"	10'-8"	4'-1"
150 MPH	7'-5"	8'-5"	8'-4"	2'-10"	150 MPH	9'-2"	10'-3"	9'-11"	3'-4"

Note: Total roof panel width = room width + wall width + overhang.

Table 3B.5.2 Allowable Spans for Industry Standard Composite Wall Panels for Various Loads for 3" Modular Rooms

Wind Condition (MPH)	Upright Height for Various Load Conditions			
	100	110	120	130
Applied Load	15 #/Sq. Ft. 18 #/Sq. Ft. 22 #/Sq. Ft. 25 #/Sq. Ft. 29 #/Sq. Ft. 34 #/Sq. Ft.	18 #/Sq. Ft. 22 #/Sq. Ft. 25 #/Sq. Ft. 29 #/Sq. Ft. 34 #/Sq. Ft.	22 #/Sq. Ft. 25 #/Sq. Ft. 29 #/Sq. Ft. 34 #/Sq. Ft.	25 #/Sq. Ft. 29 #/Sq. Ft. 34 #/Sq. Ft.
Per Linear Foot of Wall	14'-2" 12'-11" 11'-8" 10'-11" 10'-2"	12'-11" 11'-8" 10'-11" 10'-2"	11'-8" 10'-11" 10'-2"	10'-11" 10'-2"

* Engineering properties of panel are in lineal feet of wall.

Table 3B.5.3 Allowable Wall / Upright Heights for Components of Complete Standard Room 3" Panel System for Enclosed Rooms

Wind Condition (MPH)	Upright Height for Various Load Conditions			
	100	110	120	130
Applied Load	15 #/Sq. Ft. 18 #/Sq. Ft. 22 #/Sq. Ft. 25 #/Sq. Ft. 29 #/Sq. Ft. 34 #/Sq. Ft.	18 #/Sq. Ft. 22 #/Sq. Ft. 25 #/Sq. Ft. 29 #/Sq. Ft. 34 #/Sq. Ft.	22 #/Sq. Ft. 25 #/Sq. Ft. 29 #/Sq. Ft. 34 #/Sq. Ft.	25 #/Sq. Ft. 29 #/Sq. Ft. 34 #/Sq. Ft.
Load Width	13'-11"	12'-9"	11'-6"	10'-0"
24"	9'-10"	8'-11"	8'-2"	7'-1"
48"	6'-11"	6'-4"	5'-9"	5'-0"
72"	5'-8"	5'-2"	4'-5"	4'-1"
Load Width	3" x 3" x 0.050" Extruded Corner Post 6063 T-6 Alloy	17'-2"	16'-1"	14'-11"
24"	14'-9"	13'-5"	12'-2"	11'-5"
48"	10'-5"	9'-6"	8'-7"	7'-8"
72"	8'-6"	7'-9"	7'-0"	6'-1"
Load Width	2" x 3" x 0.050" Mated Extrusion 6063 T-6 Alloy	17'-1"	16'-2"	14'-1"
24"	13'-10"	12'-8"	11'-5"	10'-9"
48"	9'-10"	8'-11"	8'-1"	7'-1"
72"	8'-0"	7'-4"	6'-7"	5'-9"
Load Width	2" x 3" x 0.050" Mated Extrusion with Male Adaptor (1) Slide 6063 T-6 Alloy	20'-8"	18'-8"	16'-3"
24"	15'-11"	14'-7"	13'-2"	12'-5"
48"	11'-4"	10'-4"	9'-4"	8'-2"
72"	9'-3"	8'-5"	7'-7"	6'-8"
Load Width	2" x 3" x 0.050" Mated Extrusion with Male Adaptor (2) Slide 6063 T-6 Alloy	23'-1"	20'-10"	19'-7"
24"	17'-10"	16'-4"	14'-9"	13'-10"
48"	12'-8"	11'-6"	10'-5"	9'-1"
72"	10'-4"	9'-5"	8'-6"	7'-5"

Note: Room projection may not exceed 16' from host structure.

Example: For 2" x 3" x 0.050" Mated Extrusions, Load Width = Upright Spacing, use Load Width to enter table.

For upright spacing of Load Width = 48" enter table on left @ 48" and read span under appropriate load.

Thus: For 100 M.P.H. Wind Load or Line Load of 15 #/Sq. Ft. and Load Width = 48":

Allowable Upright Height for a 2" x 3" x 0.050" Mated Extrusion: 9'-10"

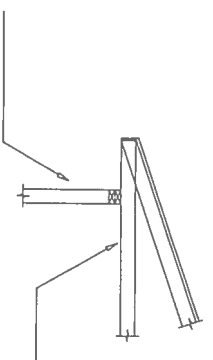
3B.8 Anchor Schedule for Composite Panel Room Components

Connection Description	80 - 100 MPH	110 - 130 MPH	140 - 150 MPH
Receiving channel to roof panel at front wall or at the receiving channel, 0.024" metal	#10 x (T+1/2") SMS 1 @ 6" from each side of the panel and 1 @ 12" O.C.	#10 x (T+1/2") SMS 1 @ 6" from each side of the panel and 1 @ 8" O.C.	#10 x (T+1/2") SMS 1 @ 6" from each side of the panel and 1 @ 6" O.C.
Receiving channel to wood deck at front wall, #2 pine framing	1 @ 6" from each end of receiving channel and 1 @ 24" O.C.	2 @ 6" from each end of receiving channel and 2 @ 24" O.C.	2 @ 6" from each end of receiving channel and 2 @ 24" O.C.
Receiving channel to concrete deck at front wall, 2,500 psi concrete	1 @ 6" from each end of receiving channel and 1 @ 32" O.C.	1 @ 6" from each end of receiving channel and 1 @ 24" O.C.	1 @ 6" from each end of receiving channel and 2 @ 24" O.C.
Receiving channel to uprights, headers and other wall connections	#8 x 3/4" SMS 1 @ 6" from each end of component and 1 @ 36" O.C.	#10 x 3/4" SMS 1 @ 4" from each end of component and 1 @ 24" O.C.	#14 x 3/4" SMS 1 @ 3" from each end of component and 1 @ 24" O.C.
0.024" metal	1 @ 36" O.C.	1 @ 24" O.C.	1 @ 24" O.C.
Receiving channel to existing wood beam, host structure, deck or infill connections to wood	1/4" x 1-1/2" lag 1 @ 6" from each end of component and 1 @ 30" O.C.	1/4" x 1-1/2" lag 1 @ 4" from each end of component and 1 @ 18" O.C.	3/8" x 1-1/2" Tapcon 1 @ 3" from each end of component and 1 @ 21" O.C.
Receiving channel to existing concrete beam, masonry wall, slab foundation, host structure, or infill connected to concrete.	1/4" x 1-3/4" Tapcon 1 @ 6" from each end of component and 1 @ 48" O.C.	1/4" x 1-1/2" Tapcon 1 @ 4" from each end of component and 1 @ 24" O.C.	3/8" x 1-1/2" Tapcon 1 @ 3" from each end of component and 1 @ 24" O.C.
Roof Panel to top of wall	1 @ 6" from each end of component & 1 @ 12" O.C.	1 @ 4" from each end of component & 1 @ 8" O.C.	1 @ 3" from each end of component & 1 @ 6" O.C.
a To wood	#10 x T + 1/2"	#10 x T + 1/2"	#10 x T + 1/2"
b To 0.05" aluminum	#10 x T + 1/2"	#10 x T + 1/2"	#10 x T + 1/2"

- Notes:
- The anchor schedule above is for mean roof height of 0-20' enclosed structure, exposure 'B', 1 = 1.0, maximum front wall projection from host structure of 16' with maximum overhang of 2', and 10' wall height. There is no restriction on room length. For structures exceeding this criteria consult the engineer.
 - Anchors through receiving channel into roof panels, wood, or concrete / masonry shall be staggered side to side at the required spacing.
 - Wood deck materials are assumed to be #2 pressure treated pine. For spruce, pine or fir decrease spacing of anchors by 0.75. Reduce spacing of anchors for "C" exposure by 0.83.
 - Concrete is assumed to be 2,500 psi @ 7 days minimum. For concrete strength other than 2,500 psi consult the engineer. Reduce anchor spacing for "C" exposure by 0.83.
 - Tapcon or equal masonry anchor may be used, allowable rating (not ultimate) must meet or exceed 411# for 1-1/2" embedment at minimum S4 spacing from concrete edges to center of anchor. Roof anchors shall require 1-1/4" fender washer.

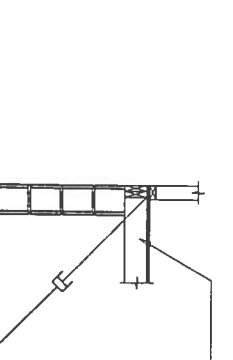
REMOVE VINYL SIDING AND SOFFIT ON THE WALL AND INSTALL SIMPSON CS-16 COIL STRAP OR EQUAL FROM TRUSS / RAFTER TO BOTTOM OF DOUBLE TOP PLATE JOIST @ EACH TRUSS / RAFTER

THE FLOOR, WALL, AND ROOF SYSTEM ARE THAT OF MOBILE / MANUFACTURED HOME



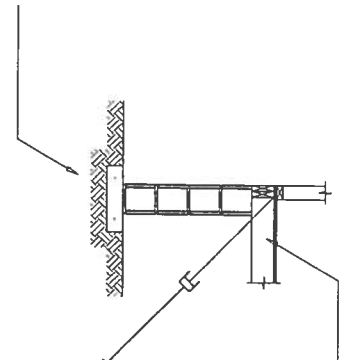
THE FLOOR, WALL, AND ROOF SYSTEM ARE THAT OF MOBILE / MANUFACTURED HOME

NAIL STRAP W/ 16d COMMON @ TRUSS RAFTER AND PERIMETER JOIST SCREW COIL STRAP TO SHEATHING W/ #8 x 1" DECK SCREWS @ 16" O.C. VERTICALLY REPLACE VINYL SIDING



THE FLOOR, WALL, AND ROOF SYSTEM ARE THAT OF MOBILE / MANUFACTURED HOME

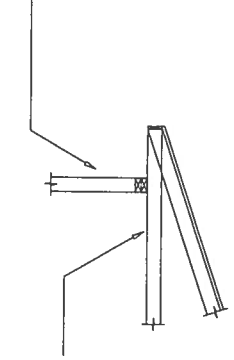
PROVIDE NEW 4", 6" OR 8" x 16" CMU PIER AND SOLID FOUNDATION BLOCK @ 5'-0" MAX. O.C. ALONG ATTACHMENT WALL



TYPICAL WALL SECTION FOR ATTACHMENT TO MOBILE / MANUFACTURED HOME

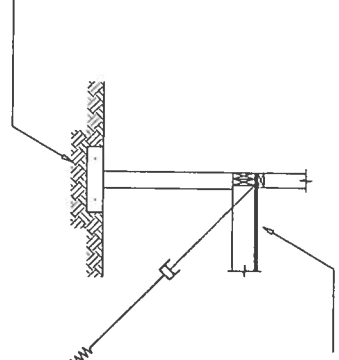
SCALE: 1/4" = 1'-0"

REMOVE VINYL SIDING AND SOFFIT ON THE WALL AND INSTALL SIMPSON CS-16 COIL STRAP OR EQUAL FROM TRUSS / RAFTER TO BOTTOM OF DOUBLE TOP PLATE JOIST @ EACH TRUSS / RAFTER



THE FLOOR, WALL, AND ROOF SYSTEM ARE THAT OF MOBILE / MANUFACTURED HOME

NAIL STRAP W/ 16d COMMON @ TRUSS RAFTER AND PERIMETER JOIST SCREW COIL STRAP TO SHEATHING W/ #8 x 1" DECK SCREWS @ 16" O.C. VERTICALLY REPLACE VINYL SIDING



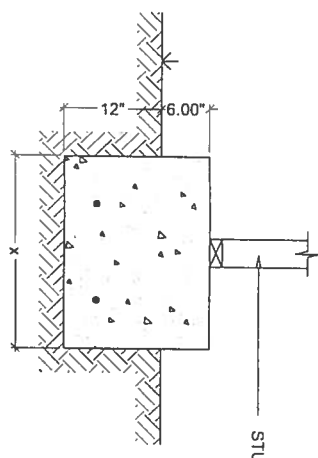
ALTERNATE: 4" x 4" P.T.P. POST W/ SIMPSON 4" x 4" POST BUCKET INSTALLED PER MANUFACTURERS SPECIFICATIONS TOP & BOTTOM

THE FLOOR, WALL, AND ROOF SYSTEM ARE THAT OF MOBILE / MANUFACTURED HOME

ALTERNATE WALL SECTION FOR ATTACHMENT TO MOBILE / MANUFACTURED HOME

SCALE: 1/4" = 1'-0"

INTERIOR BEAM (SEE TABLE 3B.1.4)



RIBBON FOOTING

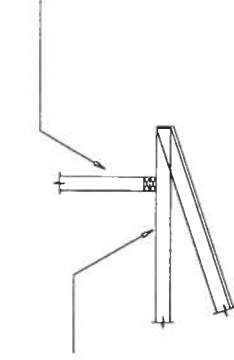
SCALE: 1/2" = 1'-0"

Minimum Ribbon Footing

Wind Zone	# / Sq. Ft.	x	Post Anchor @ 48" O.C.	Stud Anchors
100 - 123	+ 20 - 29	1'-1"	ABU 44	SP1 @ 16" O.C.
130 - 140A	+ 30 - 37	1'-4"	ABU 44	SPH @ 48" O.C.
140B - 150	+ 30 - 43	1'-9"	CBQ44 SDS2	SPH @ 32" O.C.

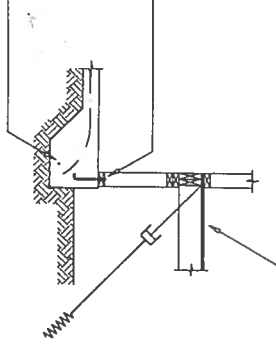
Maximum 16" projection from host structure. For stud walls use 1/2" x 6" L-bolts @ 48" O.C. and 2" square washers to attach sole plate to footing. Stud anchors shall be at the sole plate only and coil strap shall lap over the top plate on to the studs anchors and straps shall be per manufacturers specifications.

REMOVE VINYL SIDING AND SOFFIT ON THE WALL AND INSTALL SIMPSON CS-16 COIL STRAP OR EQUAL FROM TRUSS / RAFTER TO BOTTOM OF DOUBLE TOP PLATE JOIST @ EACH TRUSS / RAFTER



THE FLOOR, WALL, AND ROOF SYSTEM ARE THAT OF MOBILE / MANUFACTURED HOME

NAIL STRAP W/ 16d COMMON @ TRUSS RAFTER AND PERIMETER JOIST SCREW COIL STRAP TO SHEATHING W/ #8 x 1" DECK SCREWS @ 16" O.C. VERTICALLY REPLACE VINYL SIDING

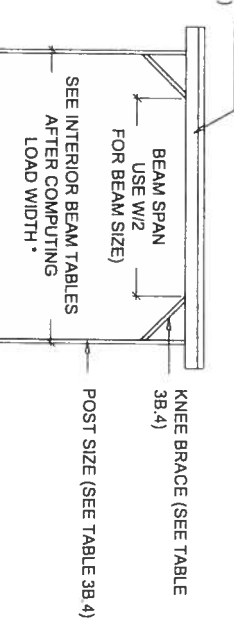


TYPE III FOOTING OR 16" x 24" RIBBON FOOTING W/ (2) #50 BARS, 2,500 PSI CONCRETE

8" L BOLT @ 32" O.C.

ALTERNATE WALL SECTION FOR ATTACHMENT TO MOBILE / MANUFACTURED HOME

SCALE: 1/4" = 1'-0"



TYPICAL SECTION "FOURTH" WALL FOR ADDITIONS ADJACENT TO A MOBILE/MANUFACTURED HOME

SCALE: 1/8" = 1'-0"

Extrusion Sizing Table:

Upright Size	Max. Beam Size	Knee Brace
2" x 2" x 0.036"	2" x 4"	2" x 2" x 0.036"
3" x 2" x 0.050"	2" x 4"	2" x 3" x 0.050"
3" x 3" x 0.060"	2" x 6" S.M.B.	2" x 3" x 0.050"
3" x 3" x 0.093"	2" x 6" S.M.B.	2" x 3" x 0.050"
3" x 3" x 0.125"	2" x 8" S.M.B.	3" x 3" x 0.093"

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FAX: (386) 767-6556

GLASS & MODULAR ROOMS
ALUMINUM STRUCTURES DESIGN MANUAL
2004 FLORIDA BUILDING CODE
MAY 2004 EDITION
SECTION 3B DETAILS

JAN 02 2008

SHEET SEAL

8

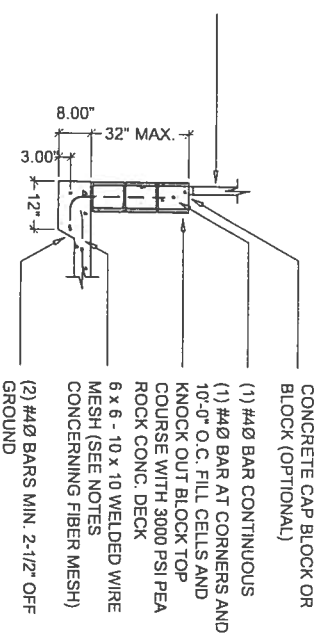
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OF 10

ANCHOR ALUMINUM FRAME TO WALL OR SLAB WITH 1/4" x 2-1/4" MASONRY ANCHOR WITHIN 8" OF POST AND 24" O.C. MAXIMUM

RIBBON OR MONOLITHIC FOOTING (IF MONOLITHIC SLAB IS USED SEE NOTES OF DETAILS THIS PAGE)

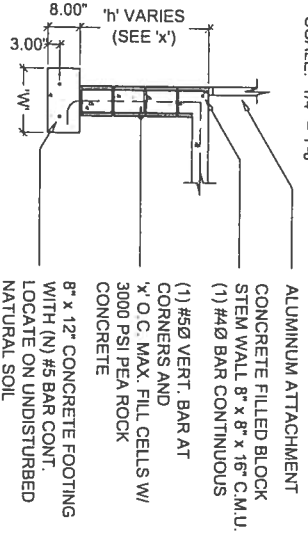
8" x 8" x 16" BLOCK WALL (MAX. 32')



KNEE WALL FOOTING FOR SCREENED OR GLASS ROOMS

SCALE: 1/4" = 1'-0"

h'	w'	N	x"
32"	12"	2	10'-0"
36"	12"	2	8'-0"
48"	18"	3	4'-0"



ALUMINUM ATTACHMENT

CONCRETE FILLED BLOCK STEM WALL 8" x 8" x 16" C.M.U.

(1) #4 BAR CONTINUOUS

(1) #5 VERT. BAR AT CORNERS AND

x' O.C. MAX. FILL CELLS W/ 3000 PSI PEA ROCK CONCRETE

8" x 12" CONCRETE FOOTING WITH (N) #5 BAR CONT. LOCATE ON UNDISTURBED NATURAL SOIL

NOTES:

- 3-1/2" concrete slab with 6 x 6 - 10 x 10 welded wire mesh or crack control fiber mesh. Fibermesh, InForce™ e3™ (formerly Fibermesh MD) per manufacturer's specification may be used in lieu of wire mesh. Visqueen vapor barrier under slabs having structures above compacted clean fill over (scarified) natural soil 90% density.
- Local code footing requirements shall be used in of the minimum footings shown. Orange County footings shall be a minimum of 12" x 16" with (2) #5Ø continuous bars for structures / buildings over 400 sq. ft.

RAISED PATIO FOOTING

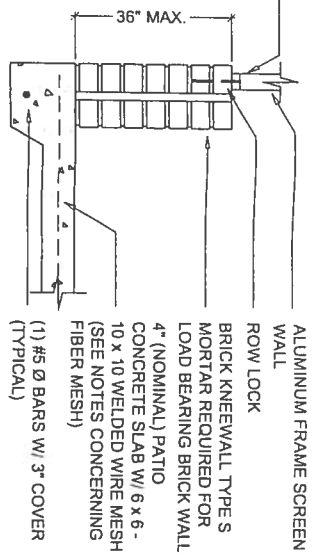
KNEE WALL FOOTING FOR SCREENED OR GLASS ROOMS

SCALE: 1/4" = 1'-0"

1/4" x 6" RAWL TAPPER THROUGH 1" x 2" AND ROW LOCK INTO FIRST COURSE OF BRICKS

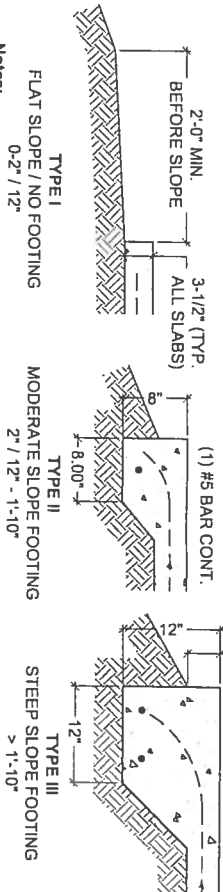
ALTERNATE CONNECTION OF SCREENED ENCLOSURE FOR BRICK OR OTHER NON-STRUCTURAL KNEE WALL

1" WIDE x 0.063" THICK STRAP @ EACH POST FROM POST TO FOOTING W/ (2) #10 x 3/4" S.M.S. STRAP TO POST AND (1) 1/4" x 1-3/4" TAPCON TO SLAB OR FOOTING



BRICK KNEE WALL AND FOUNDATION FOR SCREEN WALLS

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



Notes:

- The foundations shown are based on a minimum soil bearing pressure of 1,500 psi. Bearing capacity of soil shall be verified prior to placing the slab, by field soil test or a soil testing lab.
- The slab / foundation shall be cleared of debris, roots, and compacted prior to placement of concrete.
- No footing other than 3-1/2" (4" nominal) slab is required except when addressing erosion until the projection from the host structure of the carport or patio cover exceeds 20'-0". Then a minimum of a Type II footing is required. All slabs shall be 3-1/2" (4" nominal) thick.
- Monolithic slabs and footings shall be minimum 2,500 psi concrete with 6 x 6 - 10 x 10 welded wire mesh or crack control fiber mesh. Fibermesh, InForce™ e3™ (formerly Fibermesh MD) per manufacturer's specification may be used in lieu of wire mesh.
- If local building codes require a minimum footing use Type II footing or footing section required by local code. Local codes govern.
- If a carrier beam or fourth wall frame is required use a Type II footing minimum.

SLAB-FOOTING DETAILS

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