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GENERAL NOTES

BUILDING CODES

1. DESIGN COMPLETES WITH CHAPTER 16, SECTION 1609 OF THE FLORIDA BUILDING CODE 2004 EDITION, INCLUDING APPLICABLE WIND LOADS AND PROVISIONS OF ASCE 7
2. DESIGN COMPLETES WITH STANDARD BUILDING CODE 1999 EDITION & BOCA NATIONAL BUILDING CODE 1999 EDITION, UNIFORM BUILDING CODE 1997 EDITION AND INTERNATIONAL BUILDING CODE 2003 EDITION.
3. DESIGN COMPLETES WITH TEXAS DEPARTMENT OF INSURANCE WINDSTORM RESISTANCE GUIDE CURRENT EDITION.
 - * FOR IN-LAND AREAS USE 110 M.P.H. TABLES.
 - * FOR SEAWARD AREAS USE 120 M.P.H. TABLES.

STRENGTH OF MATERIALS

1. CONCRETE (STANDARD STONE AGGREGATE)
 - f' c = 3000 psi @ 28 DAYS
2. REINFORCED STEEL DEFORMED BARS ASTM A615 GRADE 60
3. ALUMINUM COMPONENTS
 - a. COMPOSITE PANELS Aluminum Alloy 3105 H14/H25
 - b. BEAMS Aluminum Alloy 6063-T6
 - c. Roof panel minimum core material 1.0# density Expanded Poly-Styrene.
 - d. All fasteners must be suitably coated, treated or stainless steel.
 - e. Minimum spacing for fasteners shall be four times the nominal fastener diameter and fasteners shall not be placed within four fastener diameters of any edge.

THERMAL BARRIER REQUIREMENTS

1. FOAM CORE COMPOSITE PANELS WHEN USED IN THE CONSTRUCTION OF A DWELLING OR AN ADDITION WHICH IS OPEN TO AN EXISTING DWELLING (NO DOORS), SHALL BE SEPARATED FROM THE INTERIOR OF THE DWELLING BY AN APPROVED THERMAL BARRIER OF 1/2" GYPSUM WALL BOARD OR EQUIVALENT.

GLASS ROOMS

1. REFER TO SUPPLIED DESIGN INFORMATION ON EXTRUSIONS, PANEL CHARTS, CONNECTIONS AND FOUNDATIONS FOR SPECIFIC APPLICATIONS AS REQUIRED.
2. THE INFORMATION CONTAINED ON THE ENCLOSED SHEETS IS INTENDED AS A MINIMUM GENERAL GUIDELINE AND DOES NOT EXCLUDE THE USE OF ALTERNATE DETAILS WHERE ACCEPTED BY THE ENFORCING AGENCY AND/OR DESIGNED BY A PROFESSIONAL ENGINEER.
3. WALL MEMBERS AND COLUMNS SHALL BE CONSIDERED AS BOTH VERTICAL LOAD BEARING ELEMENTS AND AS MEMBERS SPANNING VERTICALLY TO RESIST THE SOLID WALL LOADS.
4. ROOF PANELS FOR THESE STRUCTURES SHALL BE DESIGNED FOR AN ENCLOSED OR PARTIALLY ENCLOSED STRUCTURE PER FBC REQUIREMENTS.

SCREEN ROOMS

1. REFER TO SUPPLIED DESIGN INFORMATION ON EXTRUSIONS, PANEL CHARTS, CONNECTIONS AND FOUNDATIONS FOR SPECIFIC APPLICATIONS AS REQUIRED.
2. THE INFORMATION CONTAINED ON THE ENCLOSED SHEETS IS INTENDED AS A MINIMUM GENERAL GUIDELINE AND DOES NOT EXCLUDE THE USE OF ALTERNATE DETAILS WHERE ACCEPTED BY THE ENFORCING AGENCY AND/OR DESIGNED BY A PROFESSIONAL ENGINEER.
3. POSTS AND COLUMNS SHALL BE CONSIDERED AS BOTH VERTICAL LOAD BEARING ELEMENTS AND AS MEMBERS SPANNING VERTICALLY TO RESIST LATERAL LOADS.
4. ROOF PANELS FOR THESE STRUCTURES SHALL BE DESIGNED FOR A "SCREEN ROOM" STRUCTURE PER FBC REQUIREMENTS.

COMPOSITE PANELS

1. COMPOSITE ROOF AND WALL PANELS MAY BE INSTALLED OVER NEW OR EXISTING WOOD FRAME, STEEL FRAME OR MASONRY SUB-STRUCTURES.
2. COMPOSITE ROOF AND WALL PANELS COMPLY WITH CHAPTER 7 SECTION 708 OF THE FBC 2001 ED. & SBC 1999 ED.
3. COMPOSITE ROOF AND WALL PANELS COMPLY WITH CHAPTER 8 SECTION 803, CLASS A INTERIOR FINISH, OF THE FBC 2001 ED. & SBC 1999 ED.
4. COMPOSITE ROOF AND WALL PANELS COMPLY WITH CHAPTER 26 SECTION 2603 OF THE FBC 2001 ED. & SBC 1999 ED.
5. SEE "THERMAL BARRIER REQUIREMENTS" LISTED ABOVE.

WINDOWS & DOORS

1. STRUCTURAL ALUMINUM SUPPORT AND FRAMING MEMBERS USED IN NEW CONSTRUCTION OR RETROFIT OF GLASS PANE WINDOWS AND/OR DOORS UNDER NEW OR EXISTING ALUMINUM PANEL ROOFS SHALL COMPLY WITH THE DESIGN REQUIREMENTS OF THE FBC, SBC & BOCA.
2. GLASS PANE WINDOW AND/OR ALUMINUM DOOR ROOM ENCLOSURES SHALL COMPLY WITH THE ELECTRICAL REQUIREMENTS OF THE N.E.C.
3. ALUMINUM PRIME WINDOWS & SLIDING GLASS DOORS SHALL COMPLY WITH A.N.S.I./A.A.A. VOLUNTARY SPECIFICATIONS 101-88.
4. POLY VINYL CHLORIDE PRIME WINDOWS AND SLIDING GLASS DOORS SHALL COMPLY WITH A.N.S.I./A.A.A. VOLUNTARY SPECIFICATIONS 10108B.
5. GLASS PANE WINDOW AND/OR DOOR ROOM ENCLOSURES CONSTRUCTED UNDER NEW OR EXISTING PITCHED COMPOSITE PANEL ROOFS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN (7'-0")
6. ALL EXIT/ENTRY DOORS IN GLASS PANE WINDOW ENCLOSURES SHALL BE A MINIMUM OF ONE AND ONE HALF INCH (1.5") THICK PRIME ALUMINUM DOORS. DOOR GLASS SHALL COMPLY WITH REQUIREMENTS OF THE FBC, SBC & BOCA.
7. ALL WINDOWS & DOORS SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS FOR WOOD FRAME CONSTRUCTION EXCEPT THAT #10 SHEET METAL SCREWS SHALL BE SUBSTITUTED FOR WOOD FASTENERS.
8. WINDOWS & DOORS WITH IMPACT GLASS (SIMONTON STORM BREAKER) MAY BE USED IN LIEU OF STORM PANELS IN WIND-BORNE DEBRIS AREAS.

MASTER FILE ENGINEERING

1. STRUCTALL BUILDING SYSTEMS STANDARD ENGINEERING MAY BE MASTER FILED WITH WRITTEN PERMISSION FROM STRUCTALL.
2. WHEN SUBMITTING ENGINEERING FOR MASTER FILING, A SIGNED LETTER FROM STRUCTALL BUILDING SYSTEMS MUST BE INCLUDED WITH THIS ENGINEERING PACKET.
3. LOCAL AND COUNTY BUILDING DEPARTMENTS MAY SPECIFY TO EXCLUDE SECTIONS OF THIS ENGINEERING PACKET FROM MASTER FILING.

MOBILE/MANUFACTURED HOMES

1. MOBILE / MANUFACTURED HOMES SHALL REQUIRE "FOURTH WALL" CONSTRUCTION, UNLESS BUILT AFTER 1994 & THE MANUFACTURER CERTIFIES IN WRITING THAT THE MOBILE / MANUFACTURED HOME MAY BE ATTACHED TO IN A STRUCTURAL MANNER.
2. FOR "FOURTH WALL" CONSTRUCTION SEE DETAILS A2, B2, D1, D2 & D4 ON SHEET CD2, SHEET CD3 & TABLE 3.3 ON SHEET PC1.

LICENSED IN-HOUSE ENGINEERING

REGISTERED STATES

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U.C. # 60409
U.C. # 18187
U.C. # 16689
U.C. # 23458
U.C. # 76926
U.C. # 029116

INDEX, GENERAL NOTES & LICENCES
For STRUCTALL BUILDING SYSTEMS, INC.
STANDARD ENGINEERING BOOK
Engineered by Lawrence E. Bennett P.E.

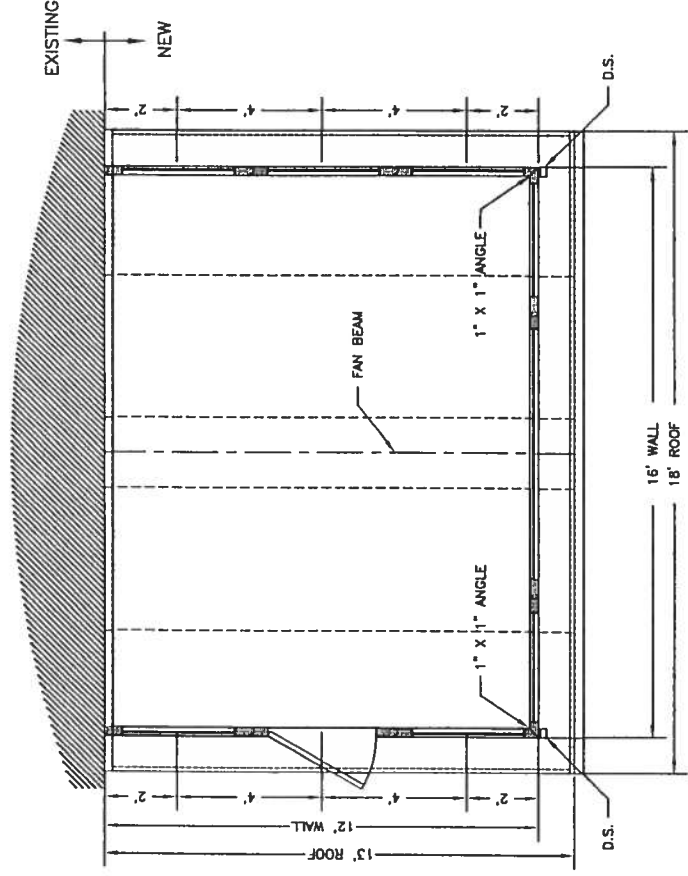
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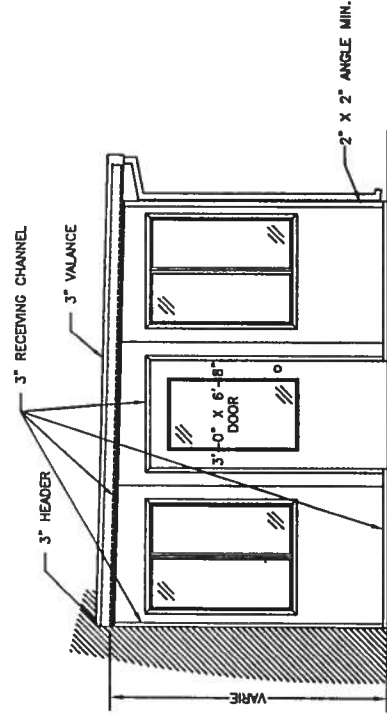
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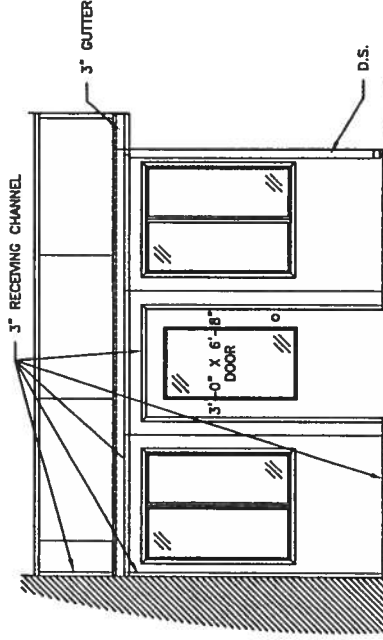
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PLAN-SHED ROOF



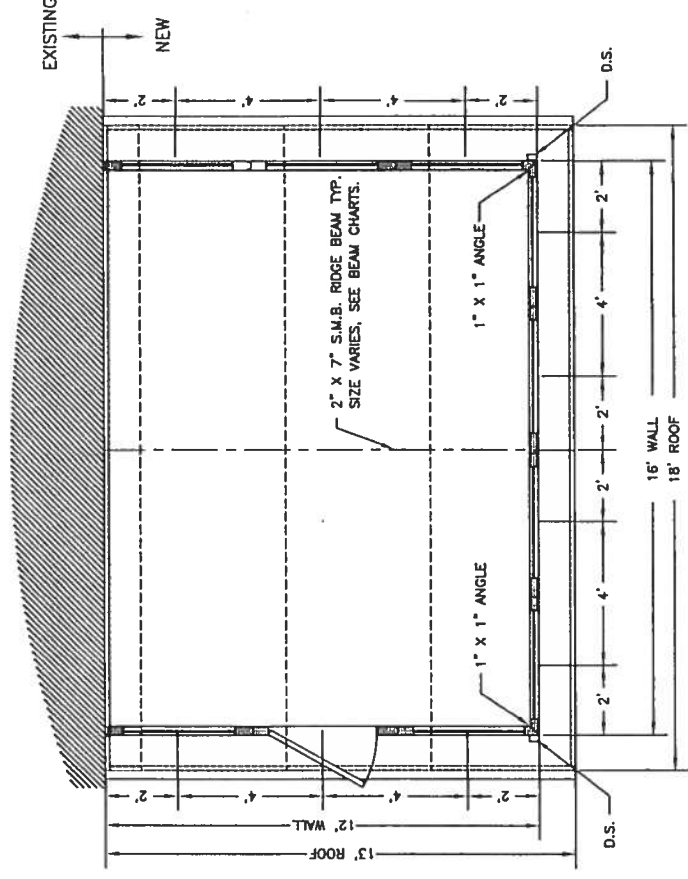
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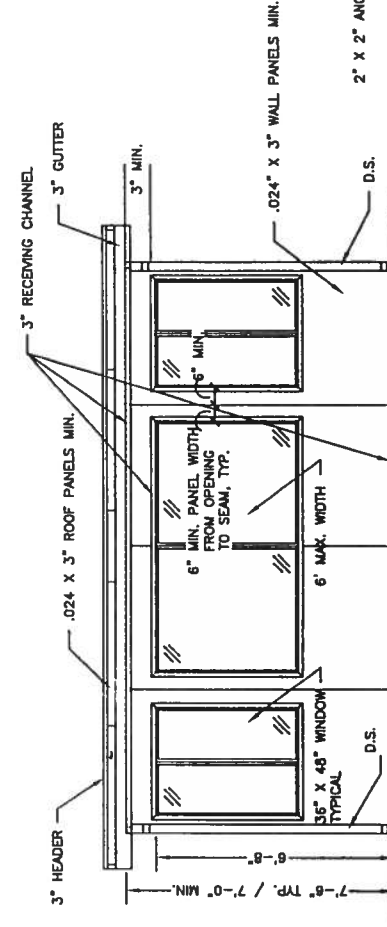
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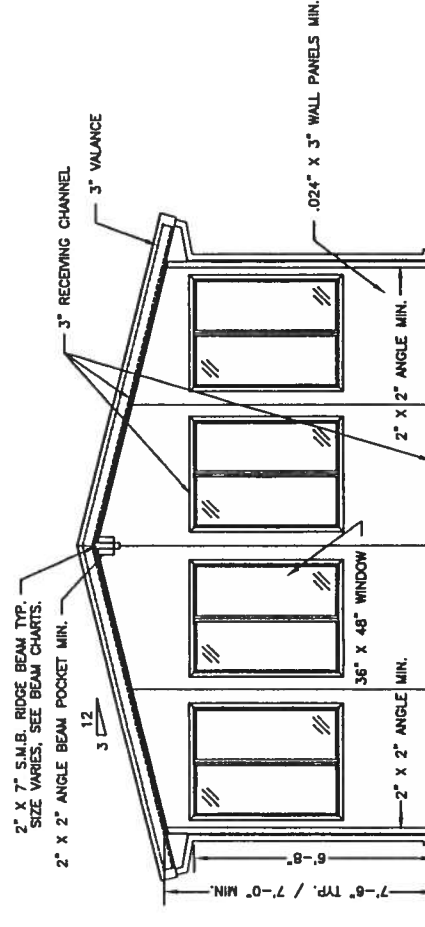
DRAWINGS PRESENTED, REPRESENT
A TYPICAL ROOM SIZE AND DESIGN.
AS ROOM DIMENSIONS VARY, SIZING
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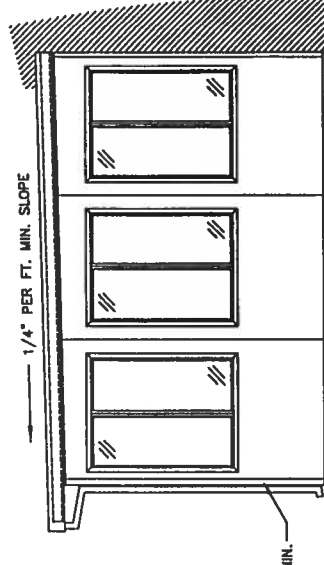
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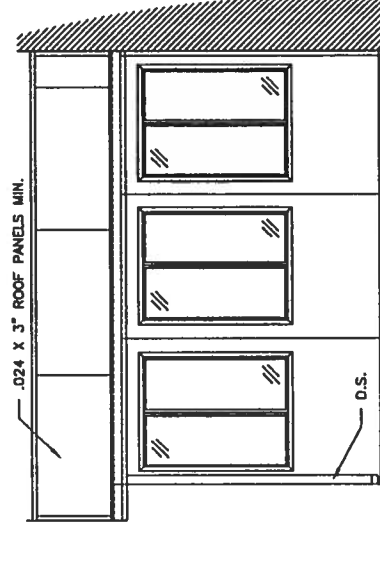
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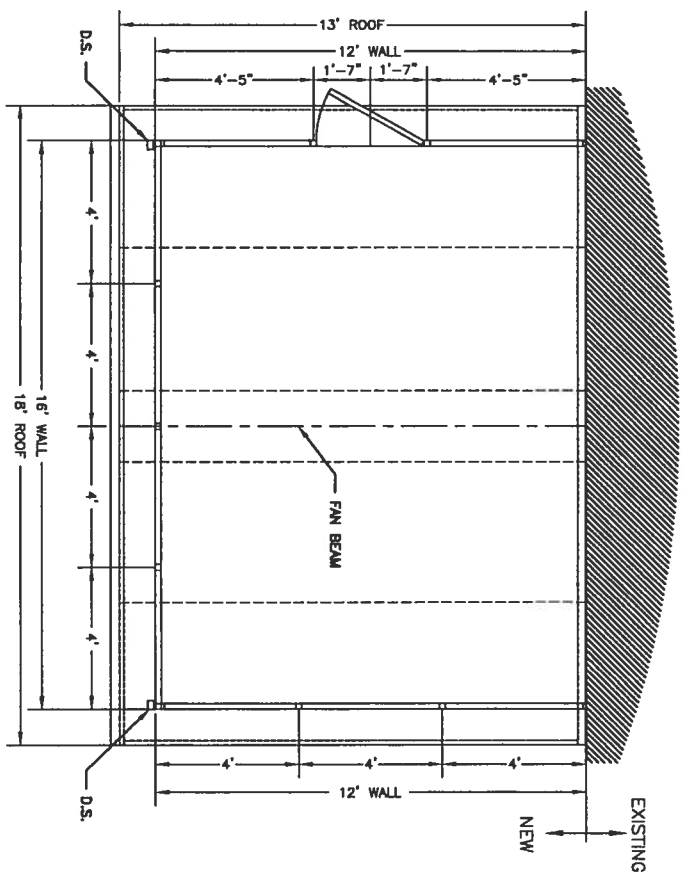
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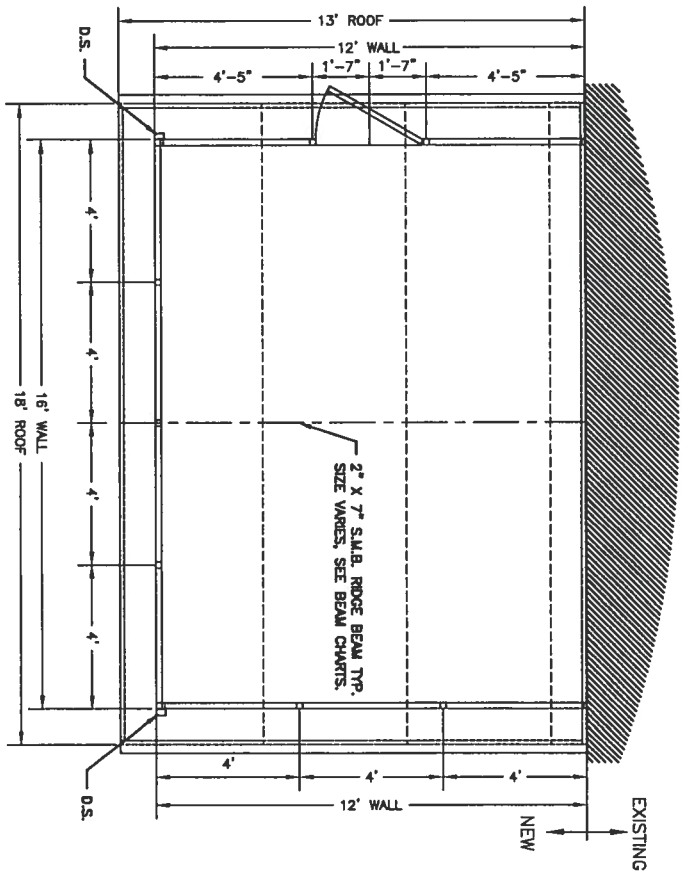
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RIGHT ELEVATION-GABLE ROOF

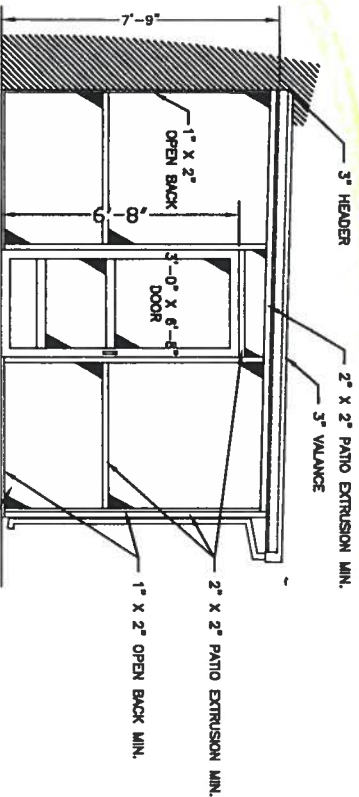


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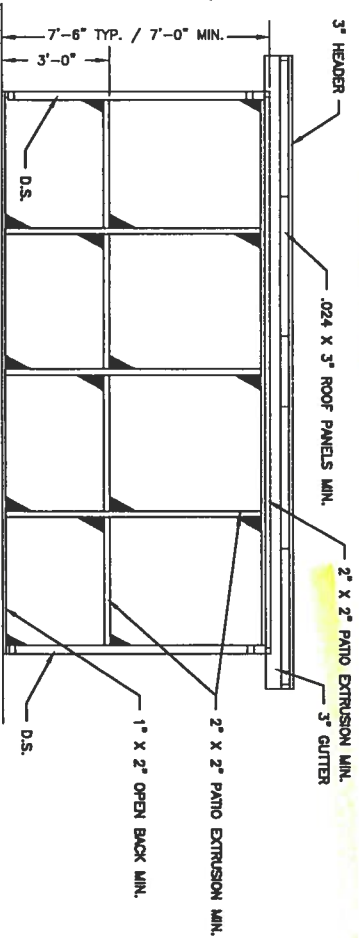


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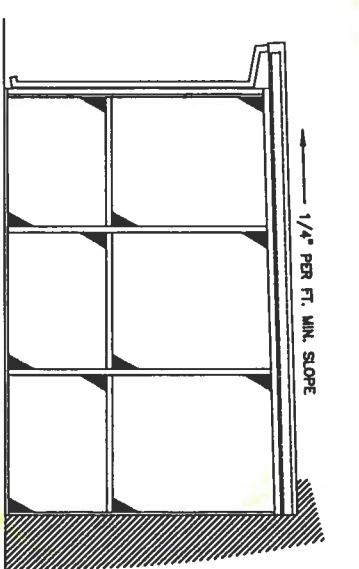
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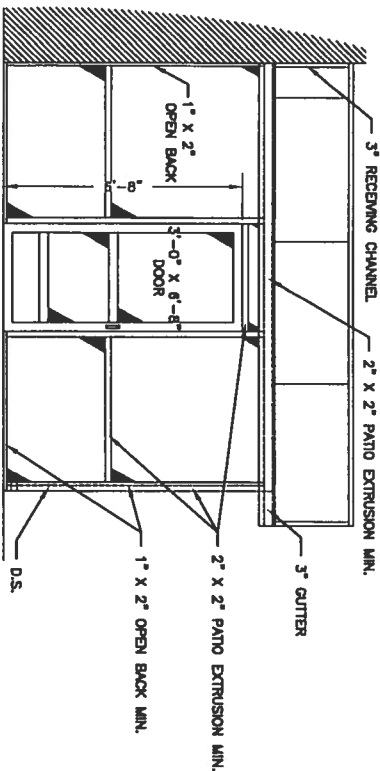
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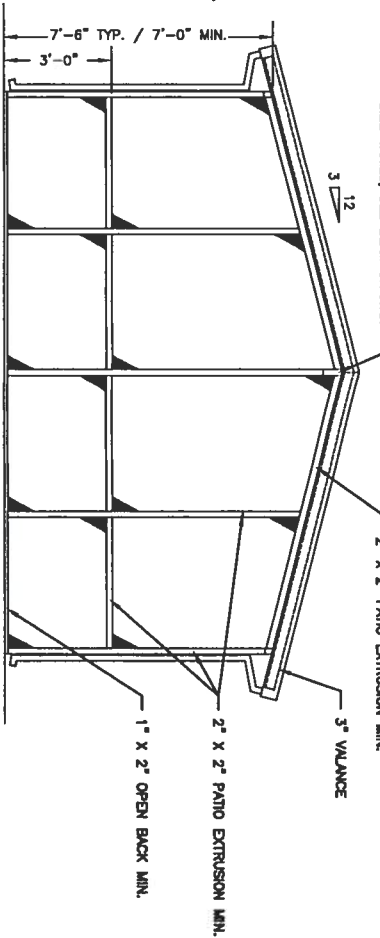
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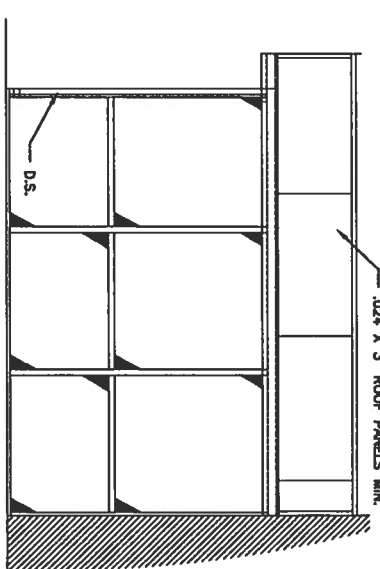
RIGHT ELEVATION-SHED ROOF



LEFT ELEVATION-GABLE ROOF



FRONT ELEVATION-GABLE ROOF



RIGHT ELEVATION-GABLE ROOF

NOTE:
Refer to WS1 page for Screen Wall Section Detail.
Refer to BC1 page for max. Beam Span Chart.
Refer to PC2 page for Max. Length of Uprights for Screen Rooms.

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PE2

Project No. 101ENG.
Date: 01-01-03
Drawn: SRD
Reviewed:

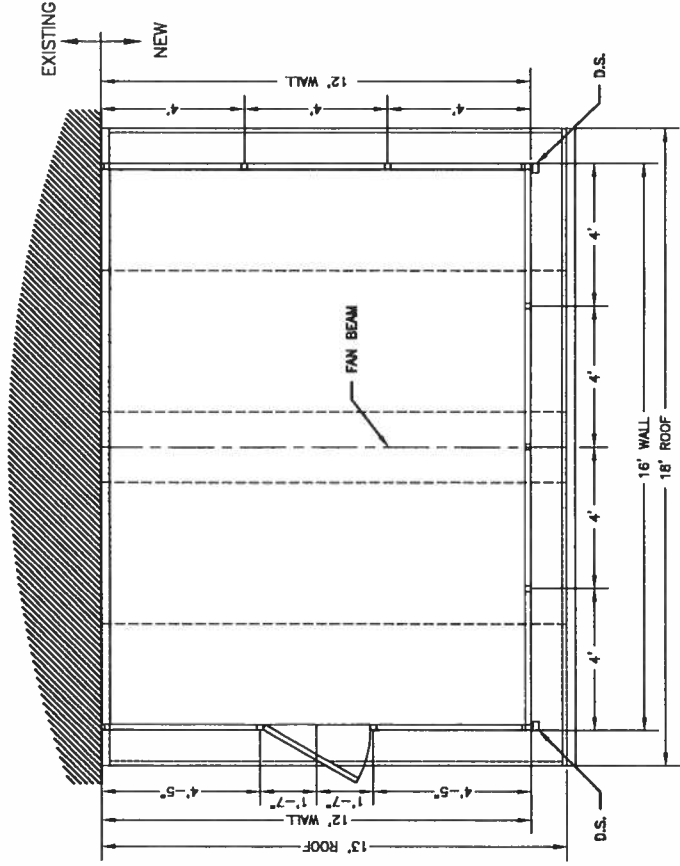
16' X 12' TYP 2" SCREEN ROOM
OR VINYL ROOM
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Engineered by Lawrence E. Bennett

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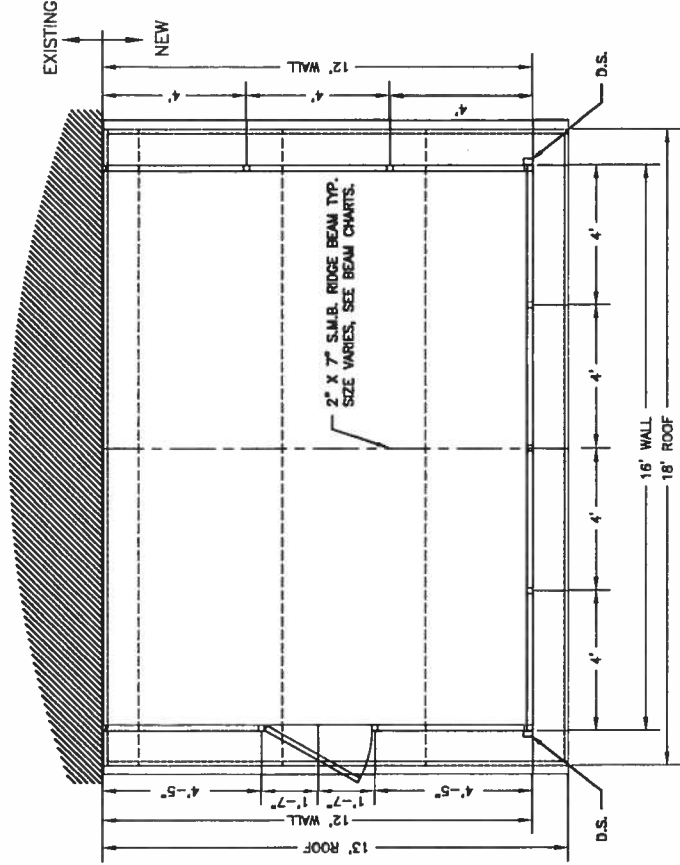


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NOTE:
REFER TO WS1 PAGE FOR SCREEN WALL SECTION DETAIL
REFER TO BC1 PAGE FOR MAX BEAM SPAN CHART.
REFER TO PC2 PAGE FOR MAX. LENGTH OF UPRIGHTS IN SCREEN ROOMS.



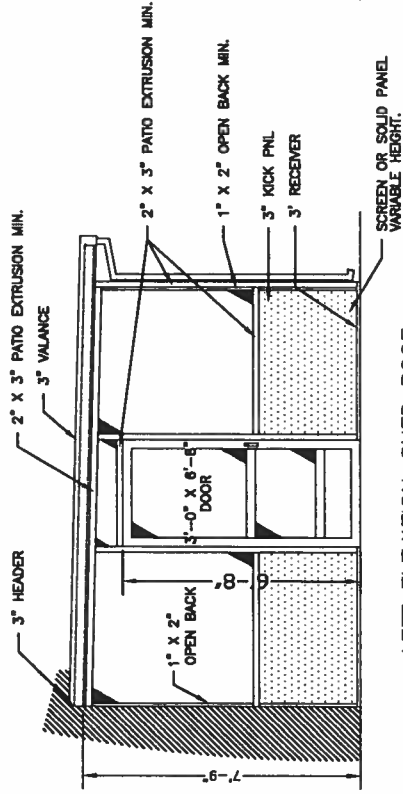
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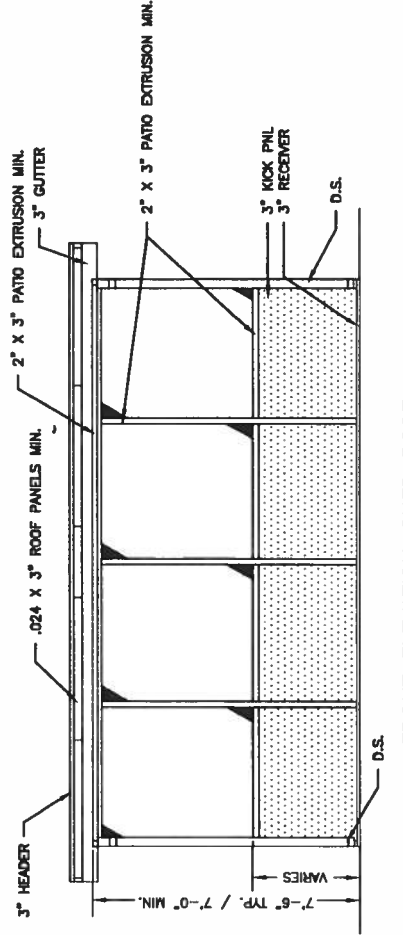
PLAN-GABLE ROOF

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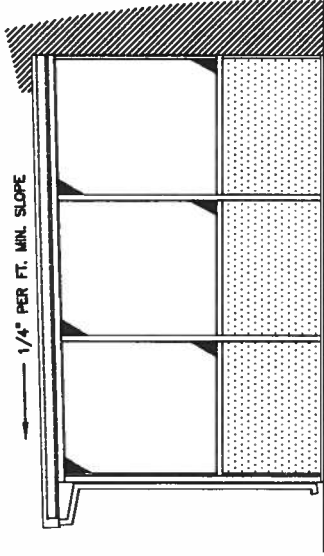
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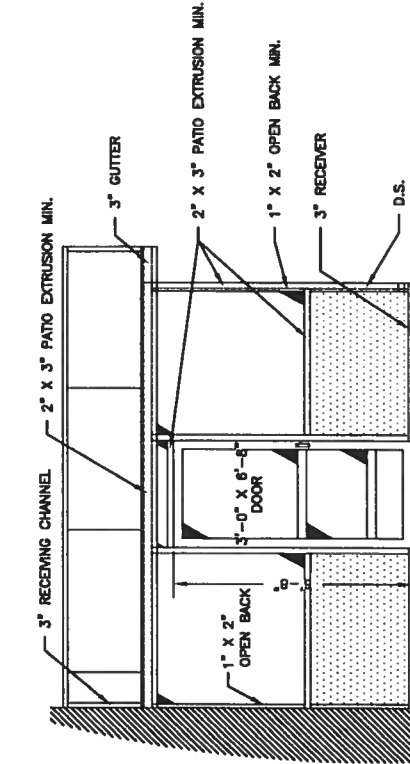
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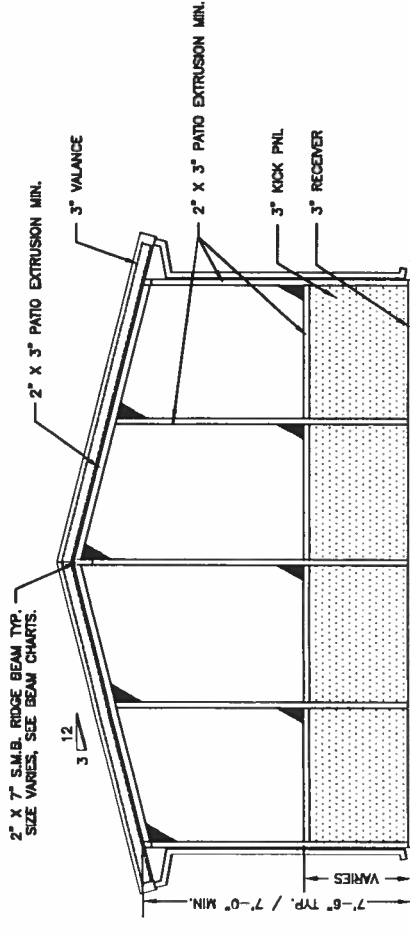
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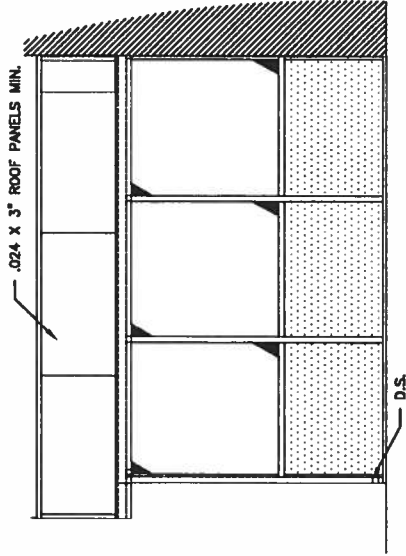
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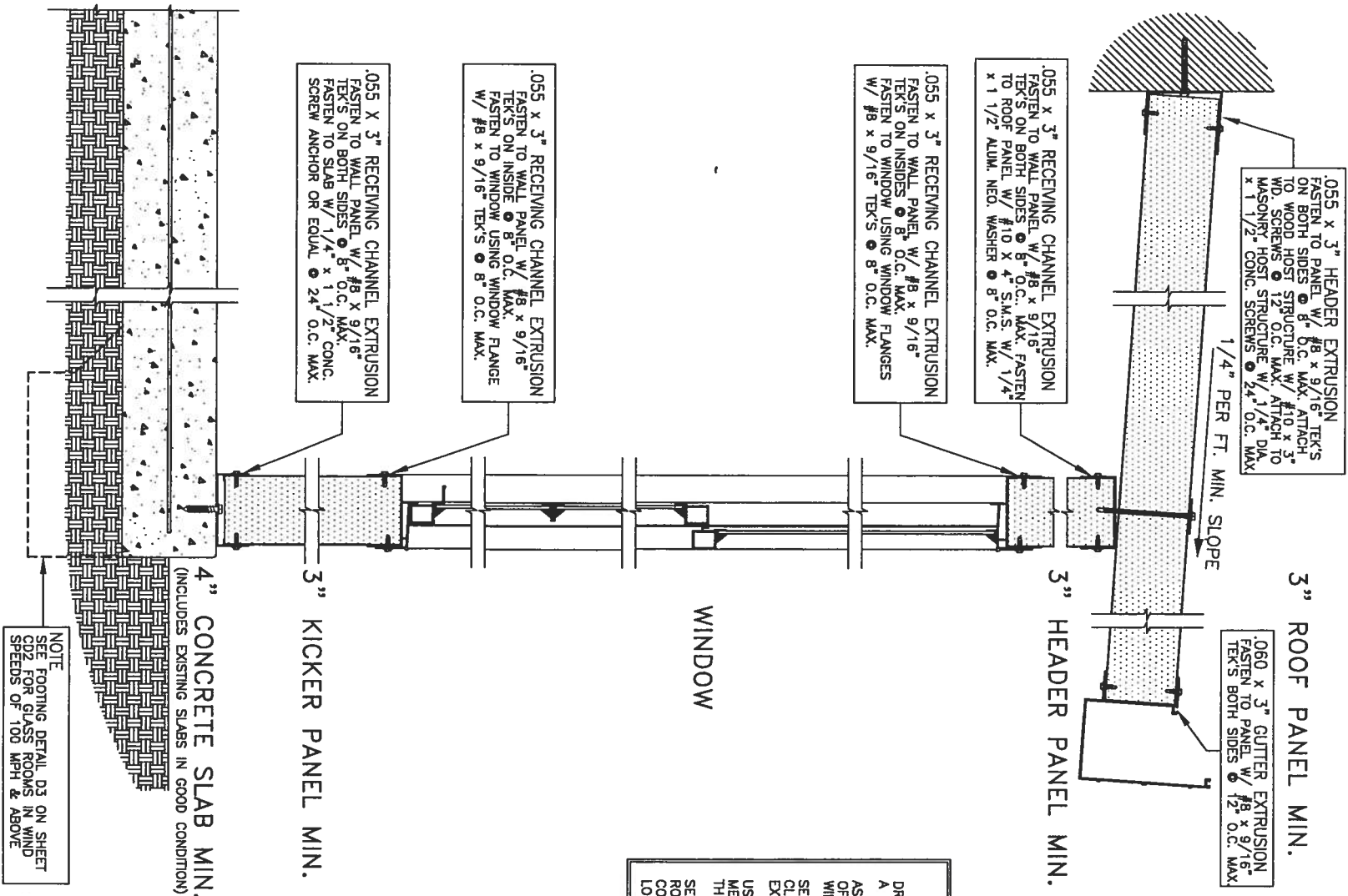
LEFT ELEVATION-GABLE ROOF



FRONT ELEVATION-GABLE ROOF



RIGHT ELEVATION-GABLE ROOF



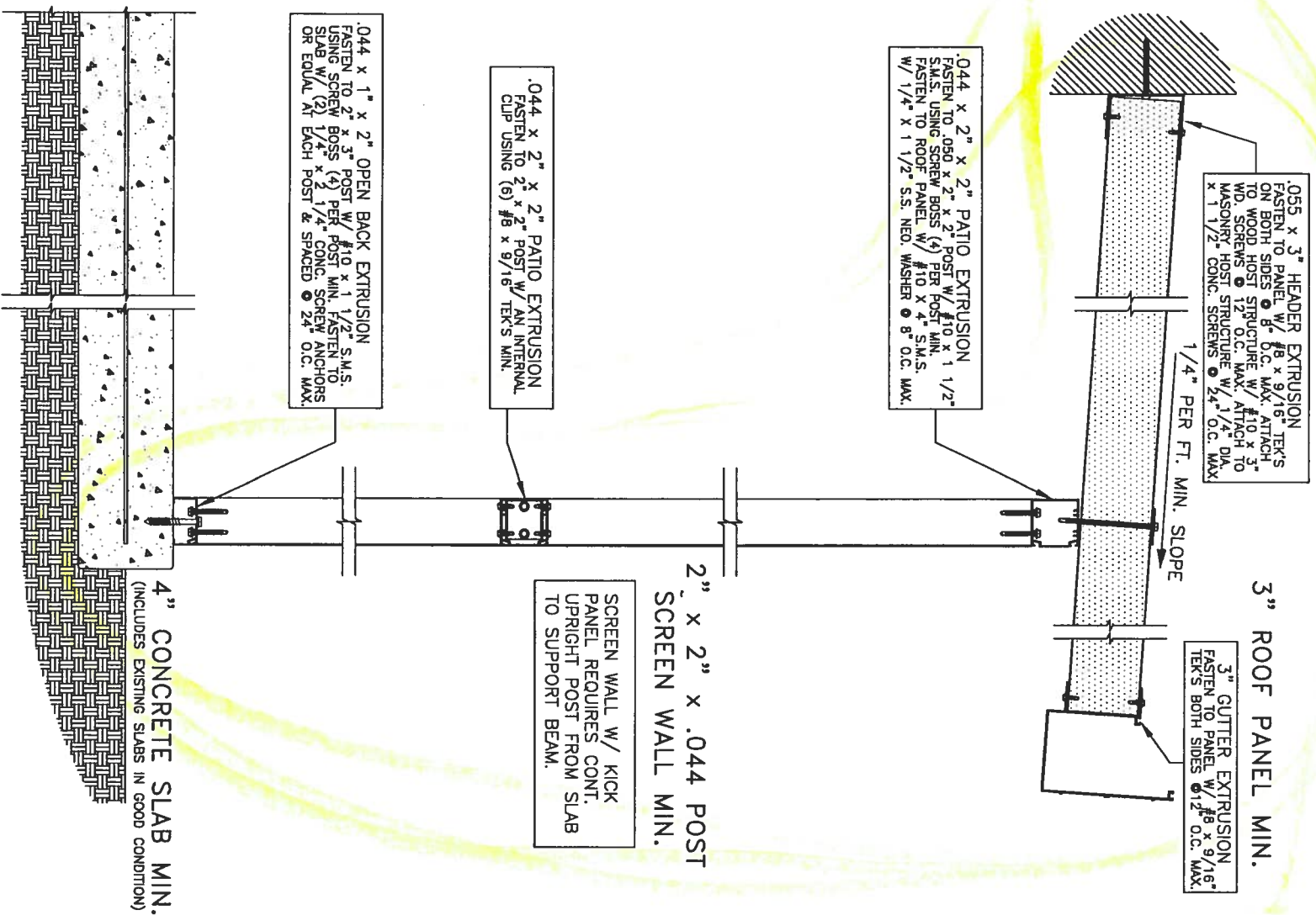
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LOCATION, TYPE, SIZE AND SPACING.



TYPICAL GLASS ROOM WALL SECTION

TYPICAL SCREEN ROOM WALL SECTION

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TYPICAL GLASS ROOM WALL SECTION
TYPICAL SCREEN ROOM WALL SECTION
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Project No.	101E6
Date	01-01-03
Owner	SRD
Revised	

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WS1

NOTE: Thermo Mullions (A; B) are recommended for insulated glass rooms. Use Non-Thermo Mullions (A1; B1) for screen rooms and glass rooms that are

Figure - A

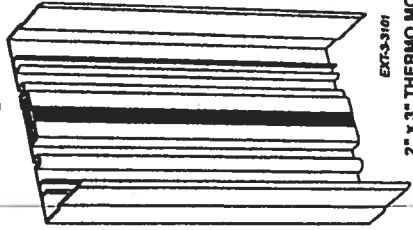


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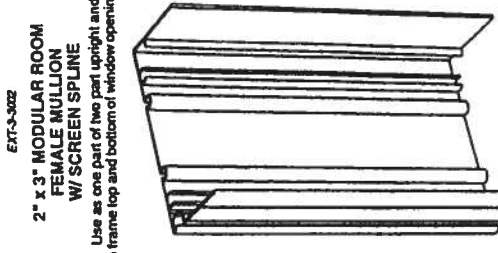


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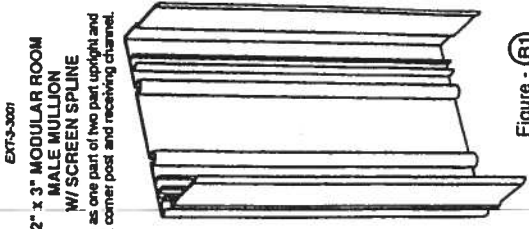


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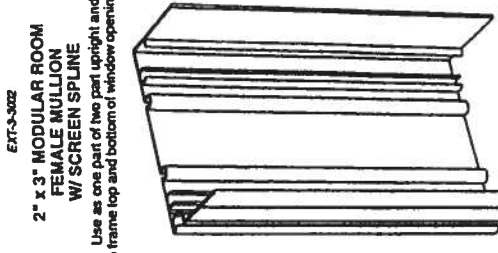


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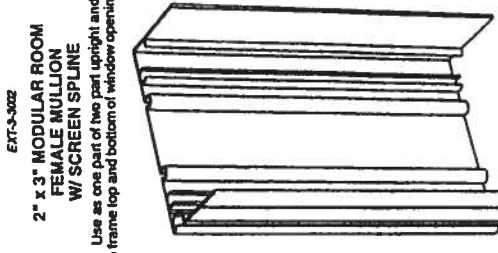


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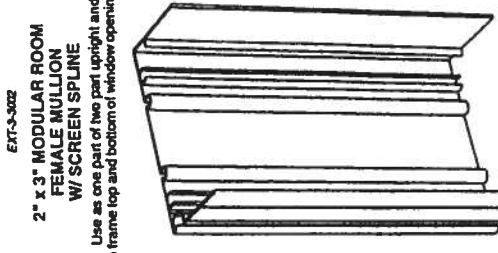


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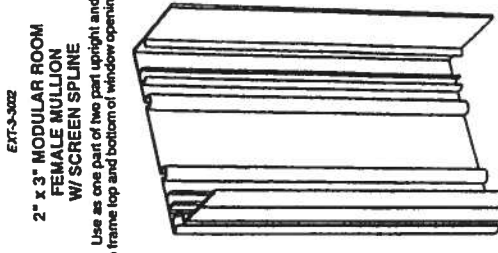


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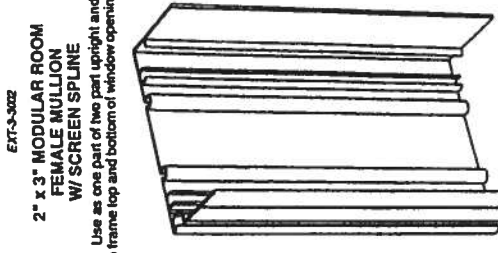


Figure - I

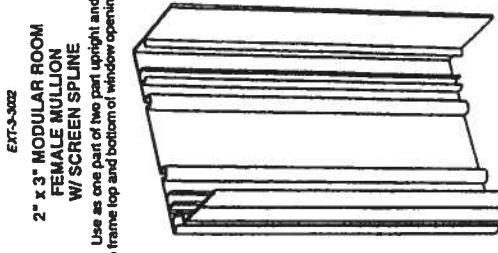


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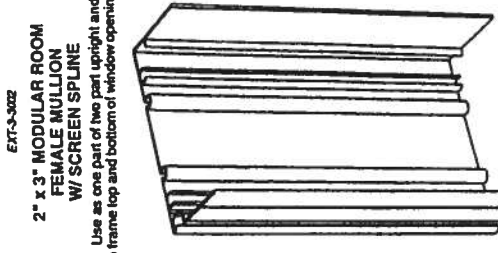


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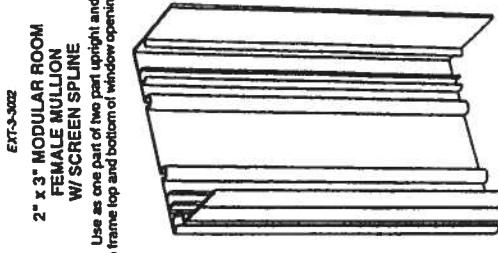


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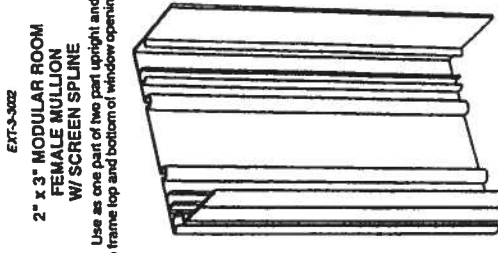


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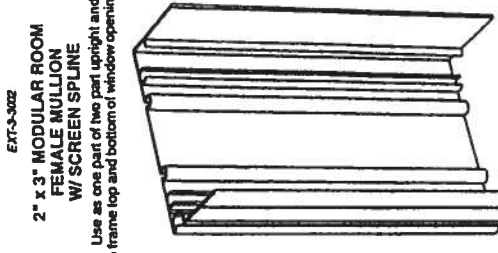


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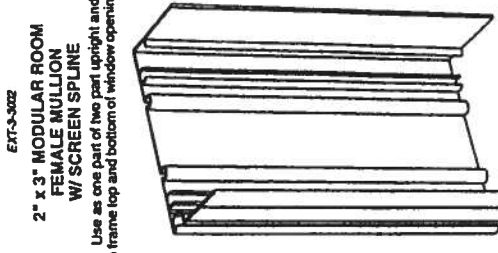


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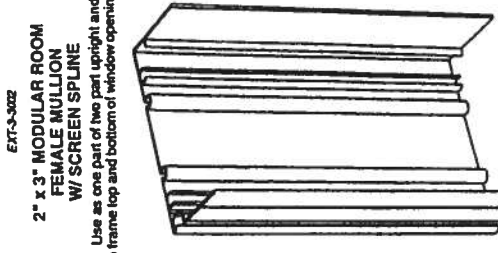


Figure - P

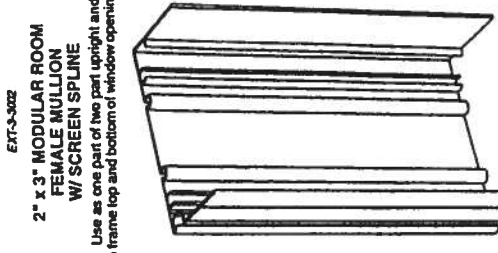


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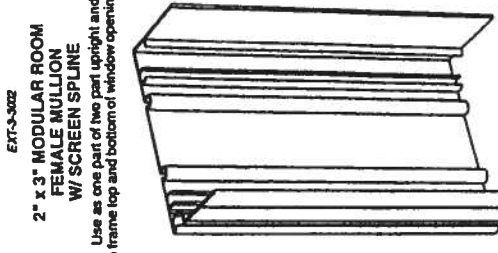


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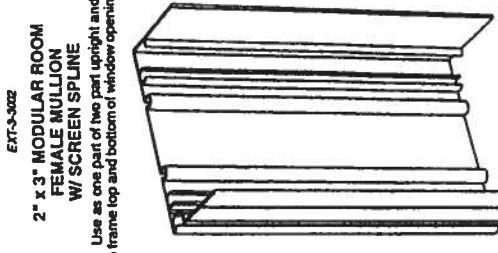


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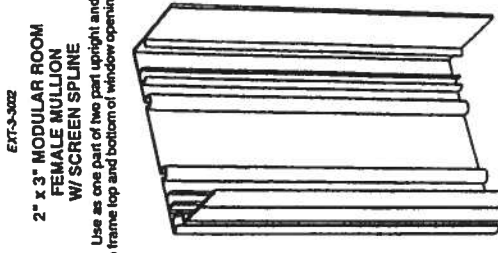


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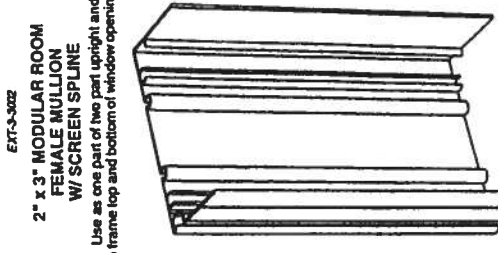


Figure - U

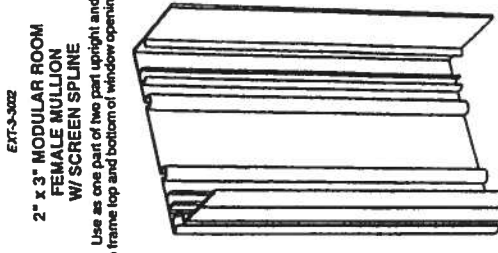


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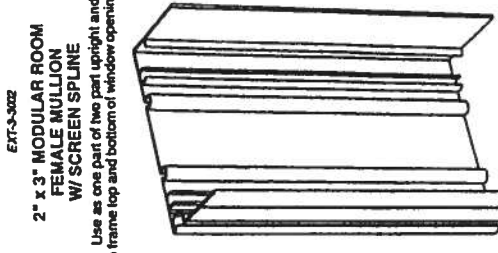


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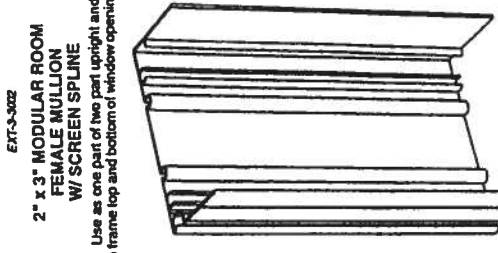


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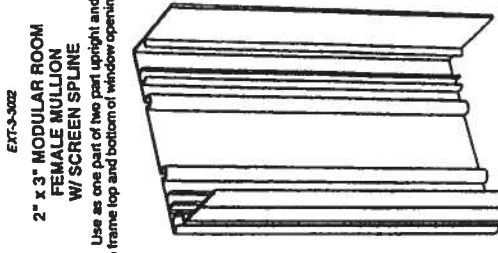


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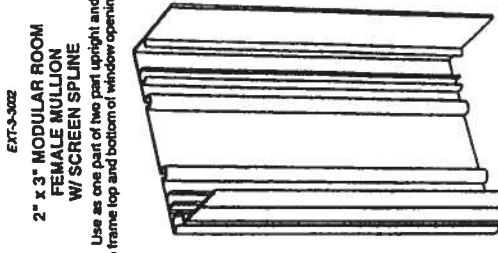


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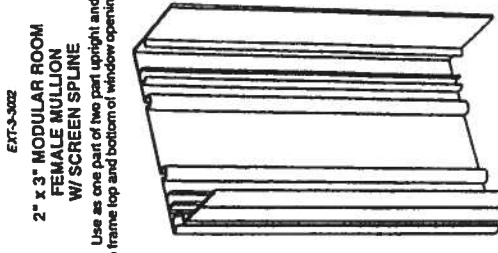


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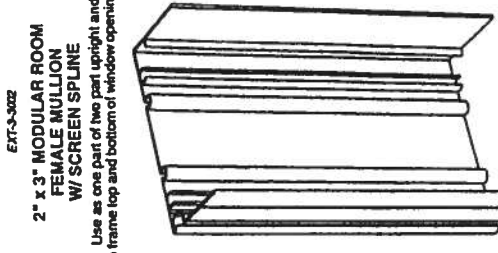


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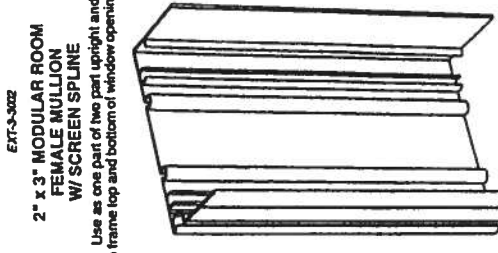


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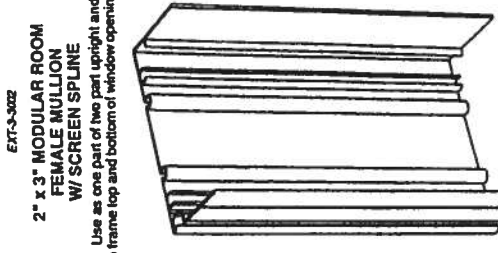


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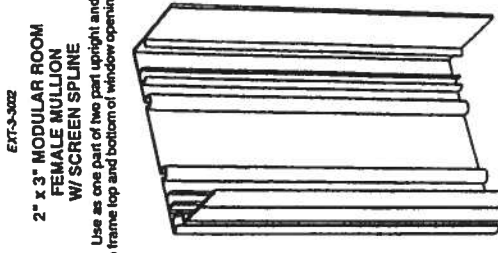


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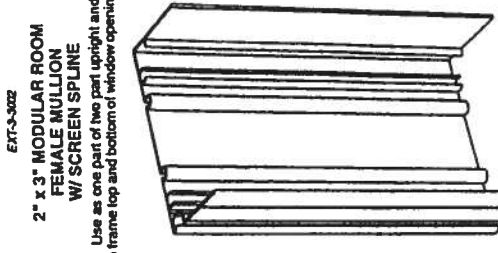


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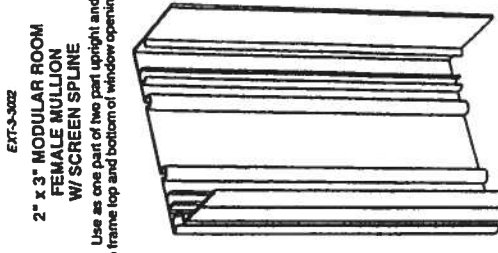


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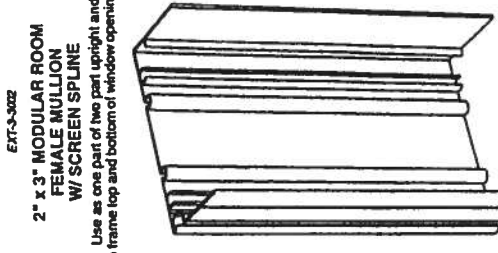


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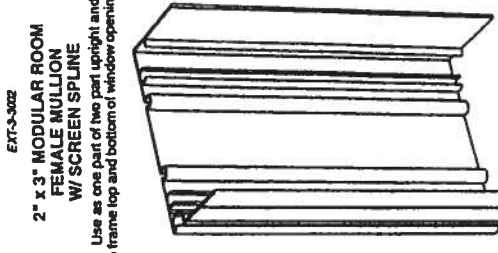


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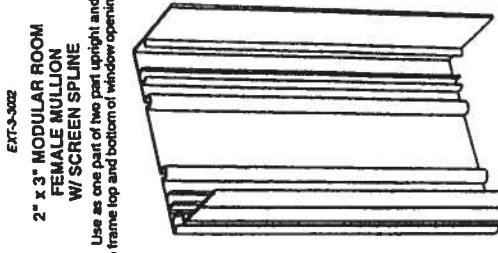


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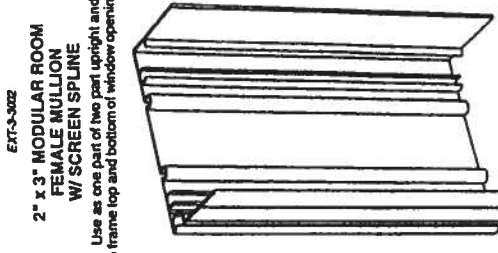


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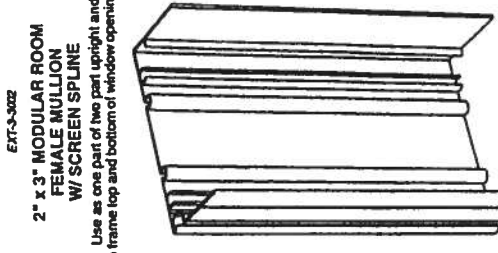


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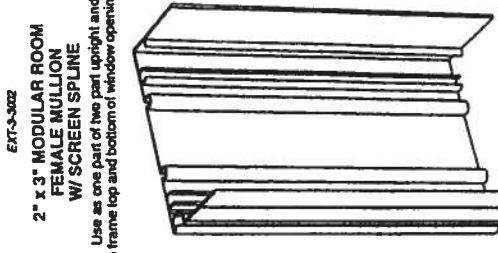


Figure - AM

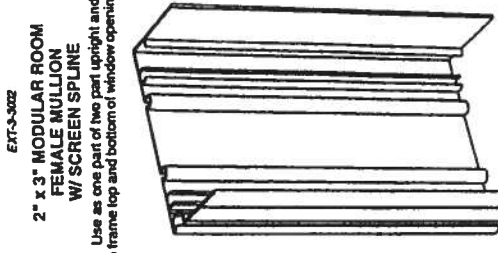


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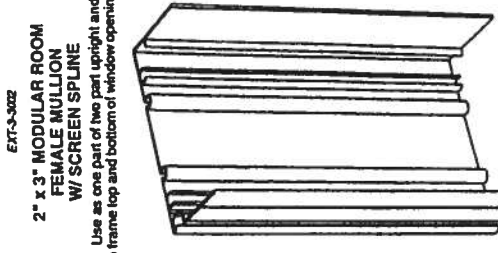


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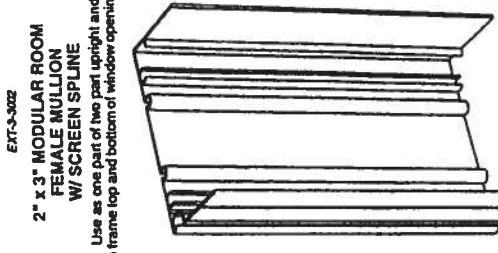


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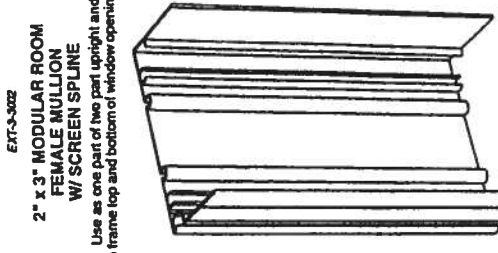


Figure - AQ

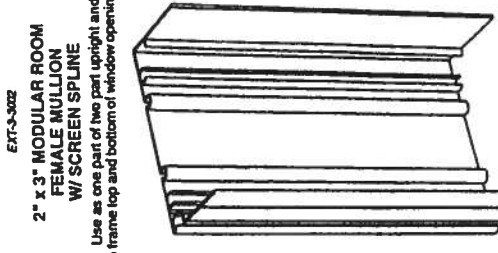


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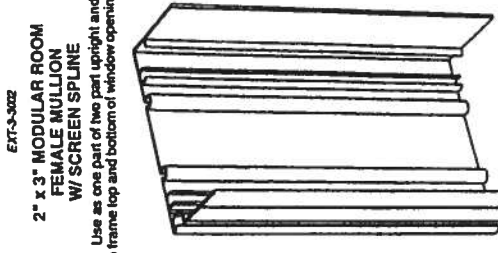


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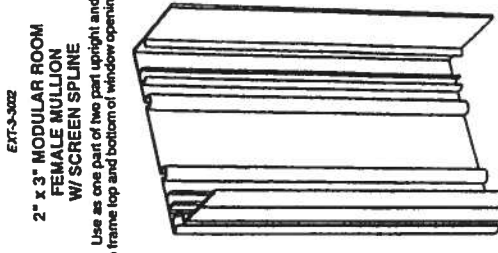


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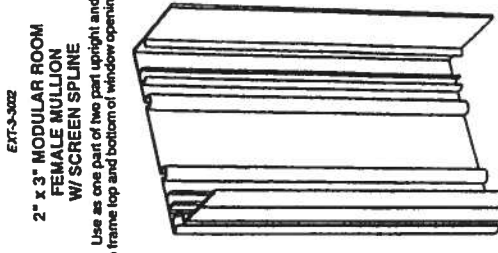


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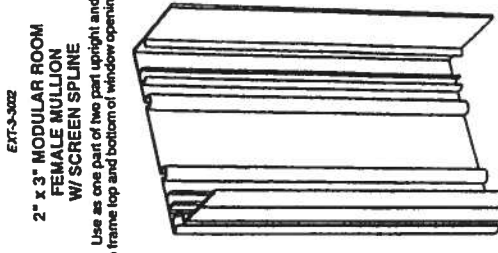


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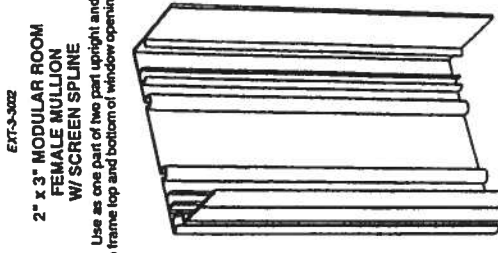


Figure - AW

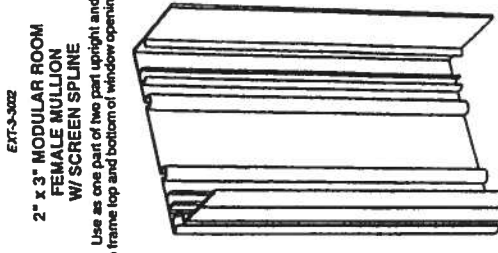


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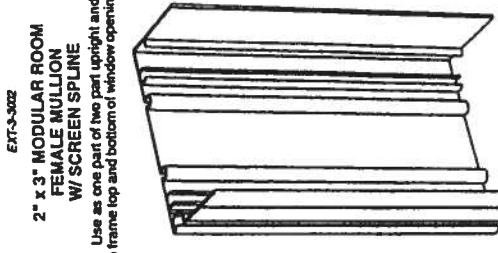


Figure - AY

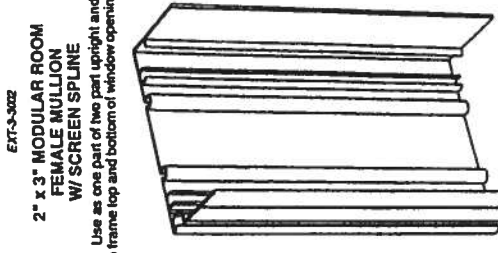


Figure - AZ

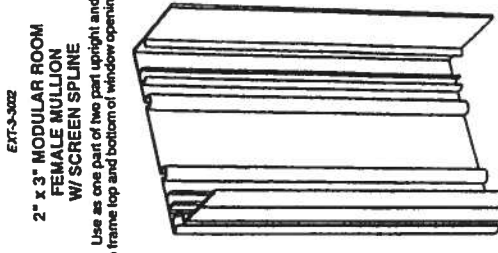


Figure - BA

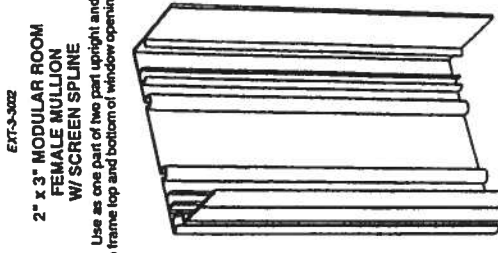


Figure - BB

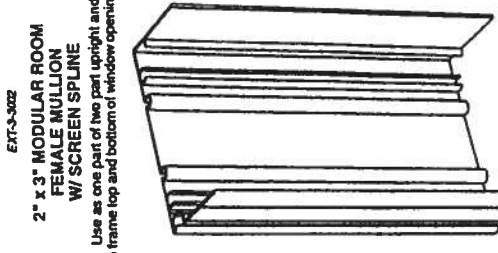


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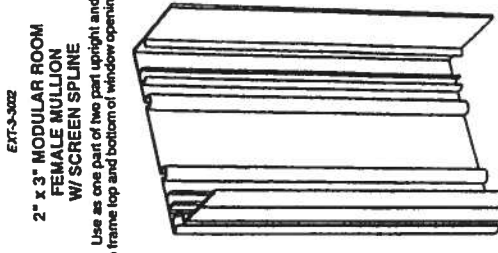


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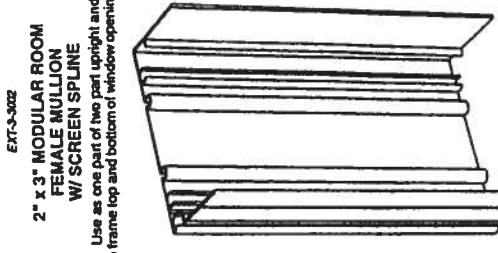


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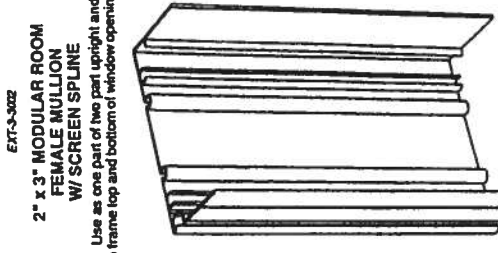


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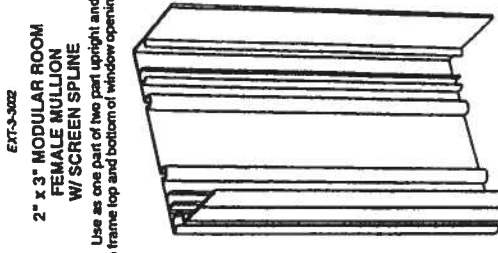


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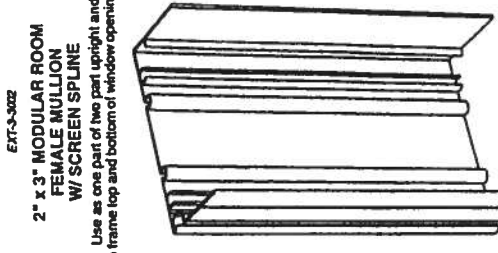


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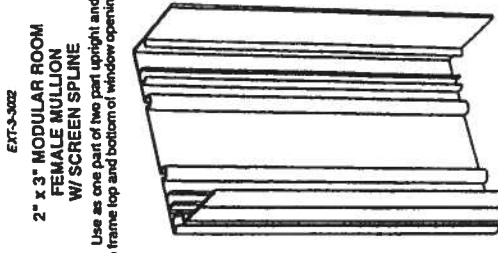


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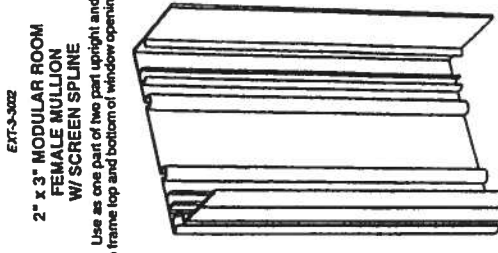


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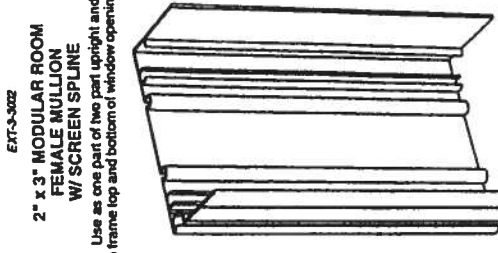


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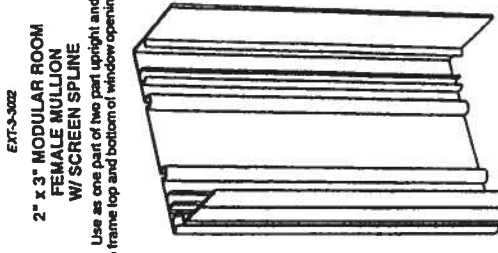


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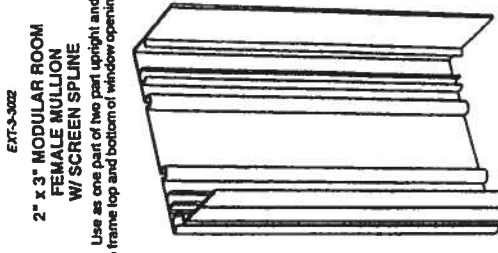


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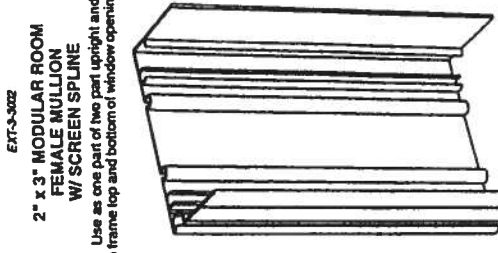


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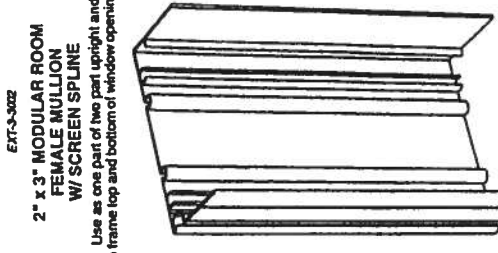


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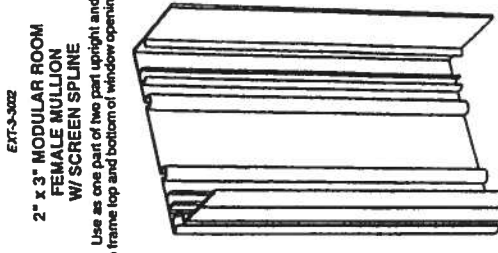


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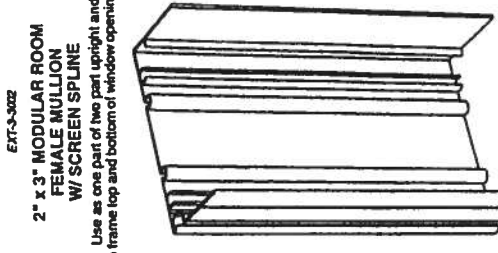


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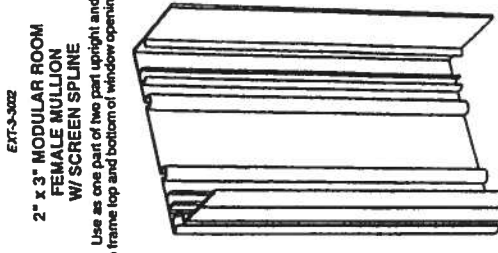


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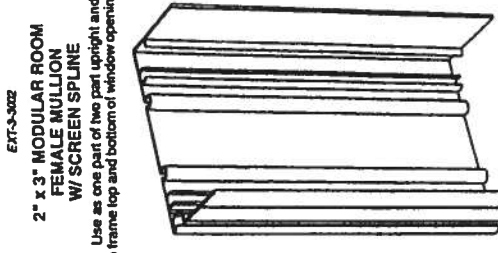


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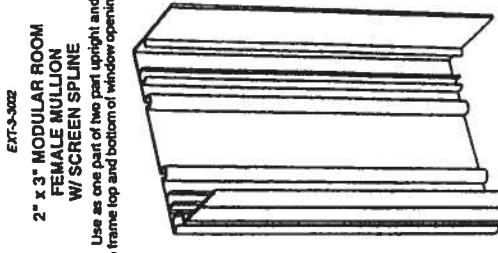


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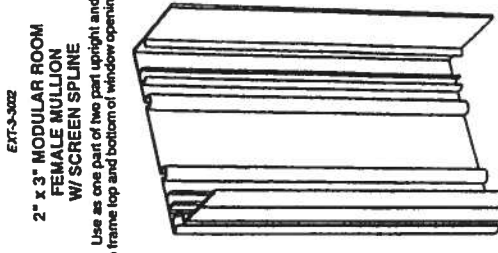


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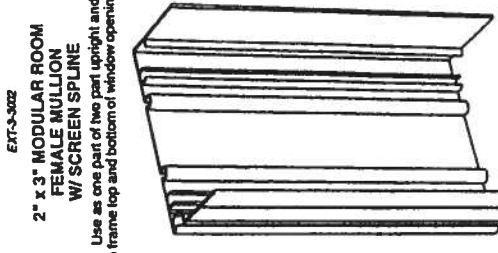


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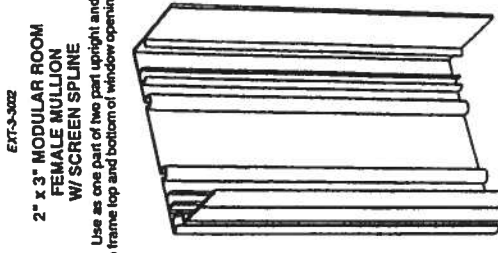


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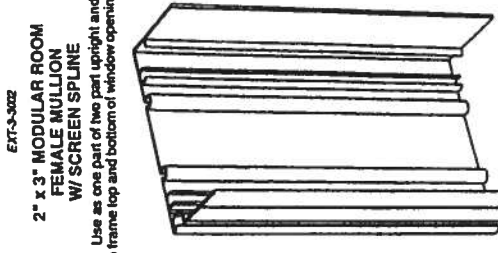


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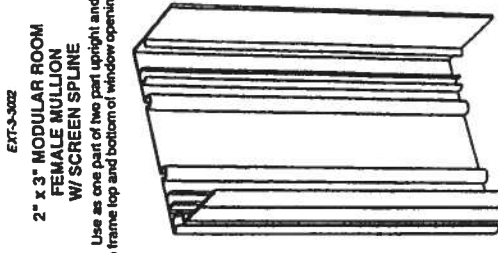


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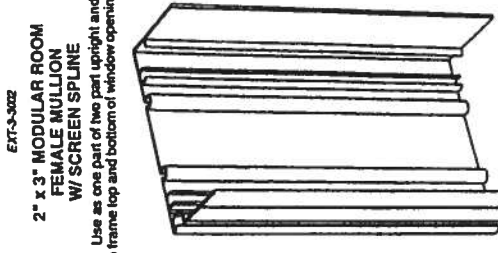


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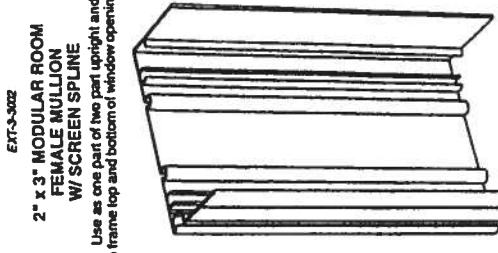


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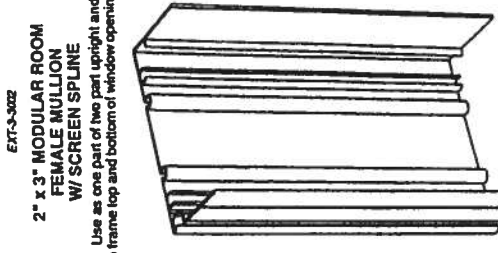


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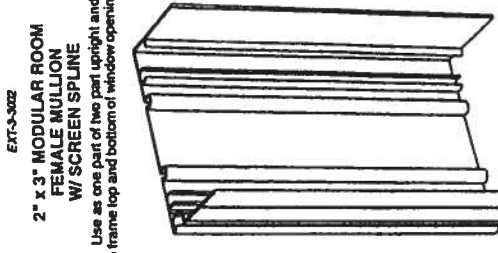


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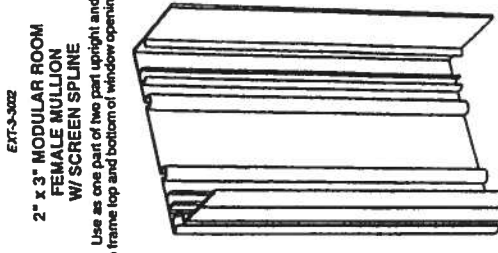


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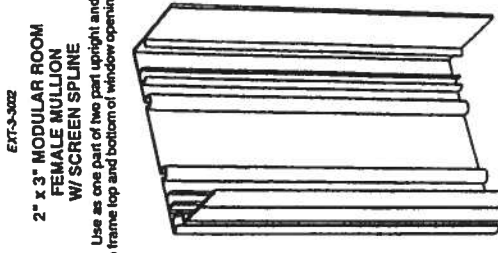


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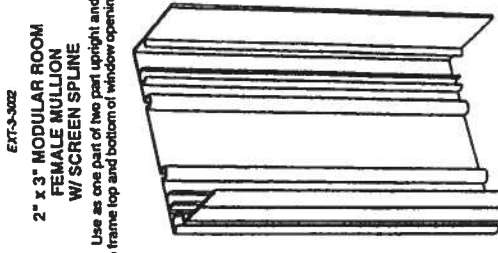


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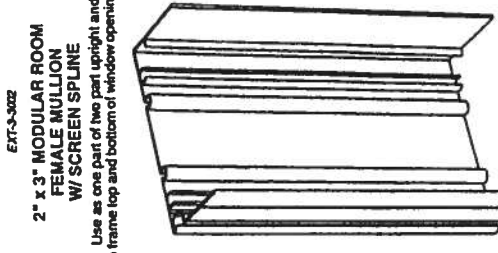


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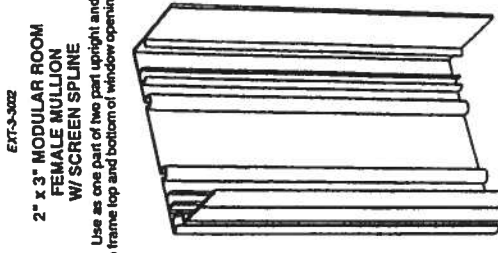


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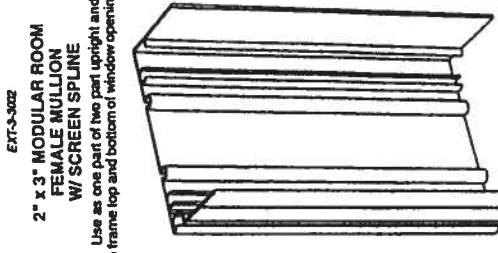


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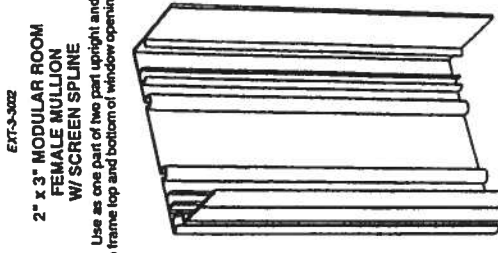


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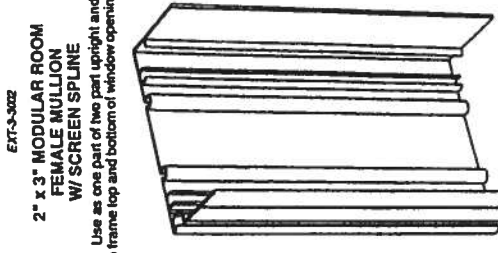


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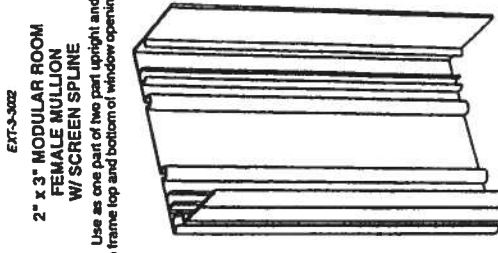


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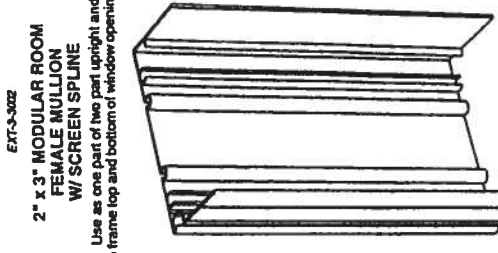


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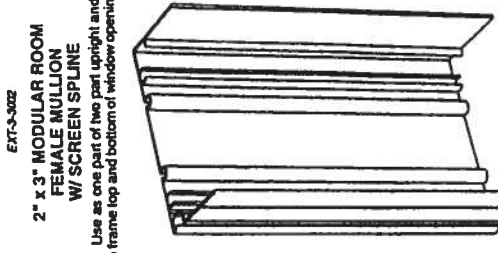


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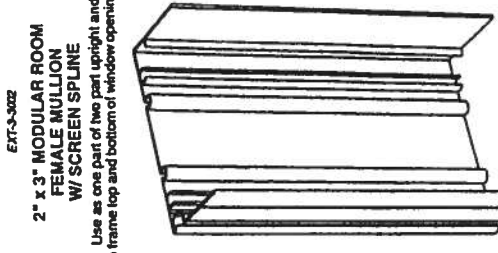


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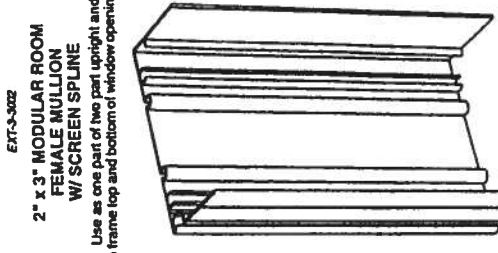


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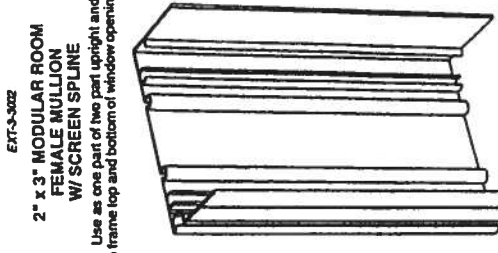


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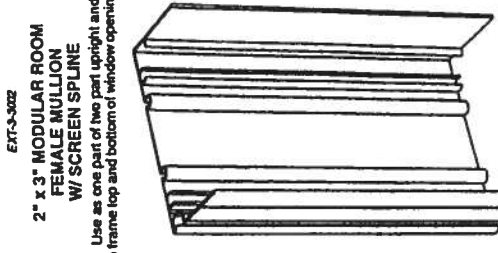


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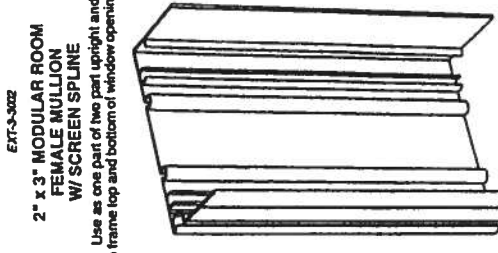


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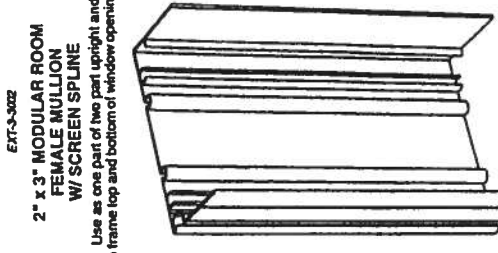


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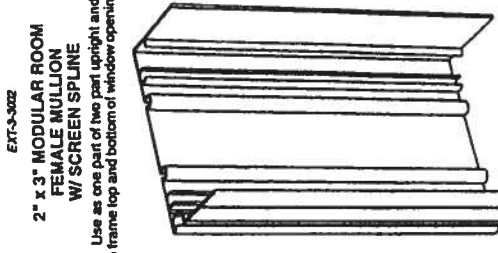


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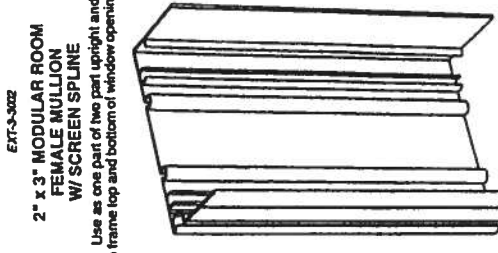


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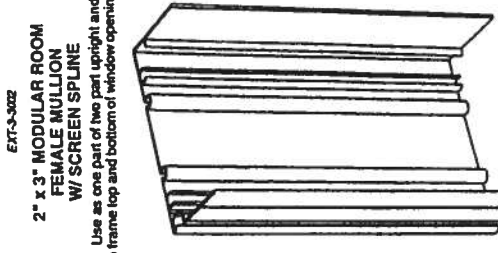


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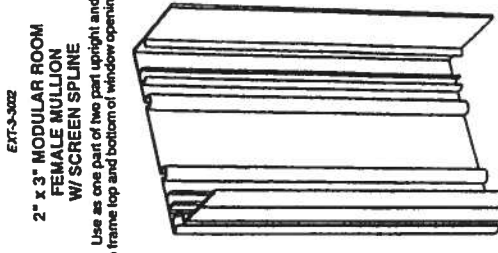
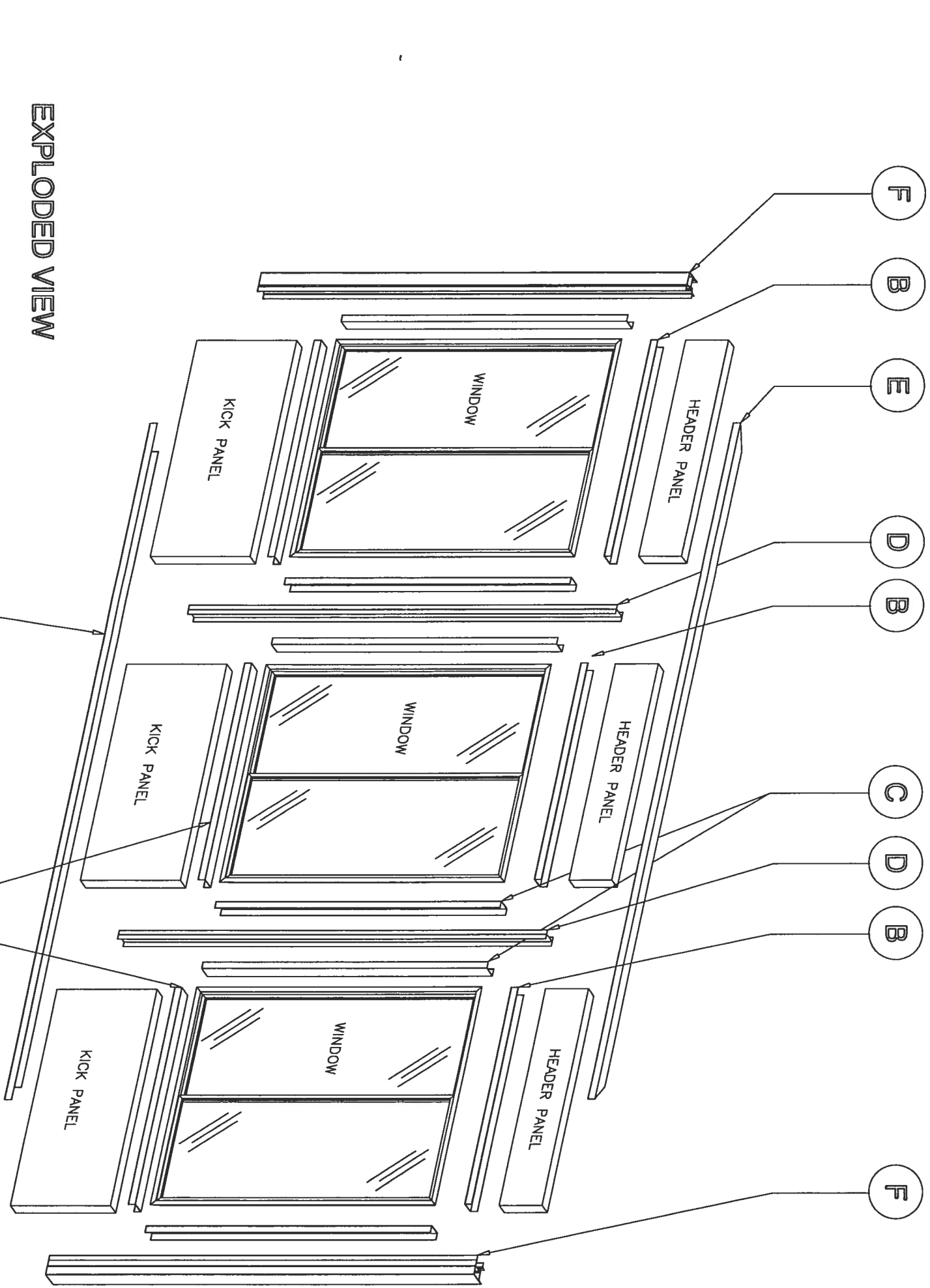
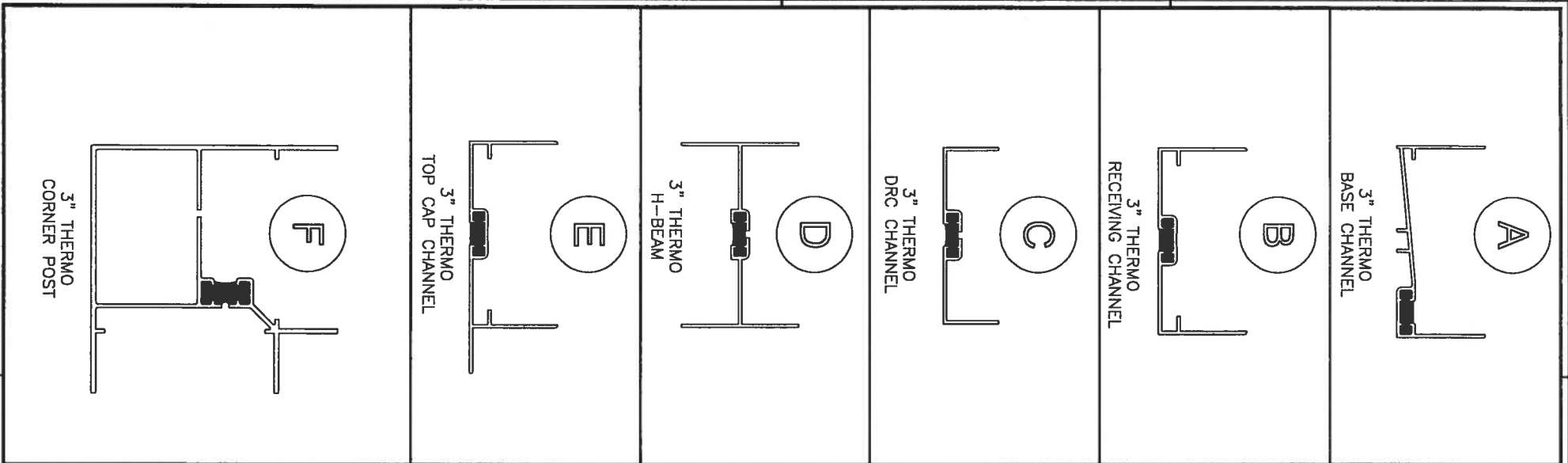


Figure - CX



NOTE:
WALL HEIGHT 10'-0" MAX.
SPACING BETWEEN UPRIGHTS 9'-0" MAX.
HEADER ABOVE DOOR AND/OR WINDOWS 6" MIN.
EXTRUSIONS & PANELS FASTEN W/ #8 X 9/16" @ 8" O.C. BOTH SIDES.

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CIVIL ENGINEER - DEVELOPMENT CONSULTANT
PO BOX 4368
SOUTH DAYTONA, FLORIDA 32121
TEL. (386) 767-4774

Project No. 101/Eng
Date: 01-07-03
Drawn: JRD
Reviewed: JRD

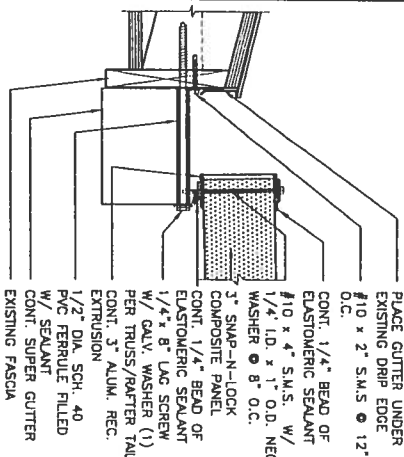
WS3

**3" H-BAR SYSTEM
TYPICAL WALL ASSEMBLY**
STANDARD ENGINEERING BOOK
Engineered by Lawrence E. Bennett

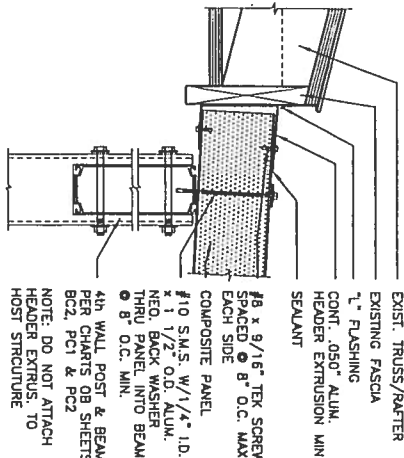
350 BURBANK ROAD
OLDSMAR, FLORIDA
34677



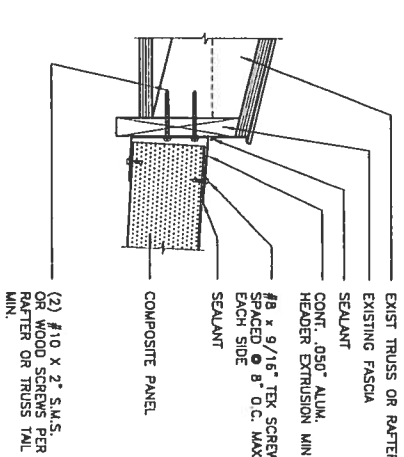
NATIONWIDE 1-800-969-3706
LOCAL 813-865-2827
FAX 813-865-8128



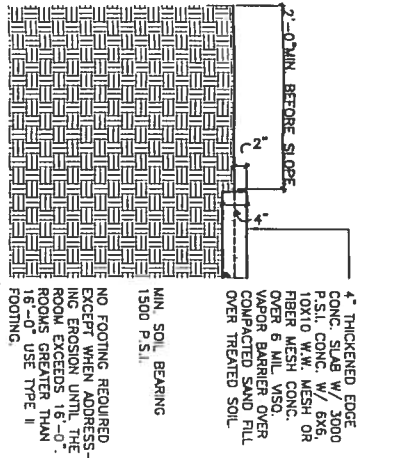
A1
PANEL ROOF TO EXISTING FASCIA w/ SUPER GUTTER
1 1/2" = 1'-0"
ROOF-38



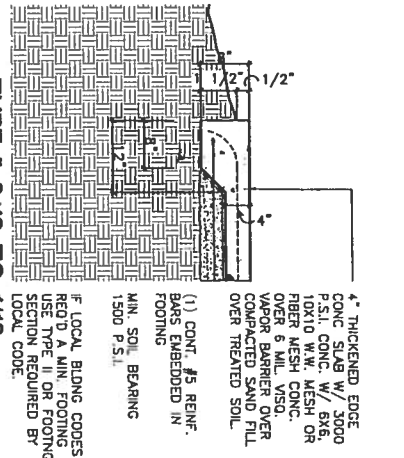
A2
ROOF PANEL TO MH FASCIA @ 4th WALL CARRY BEAM
1 1/2" = 1'-0"
ROOF-39



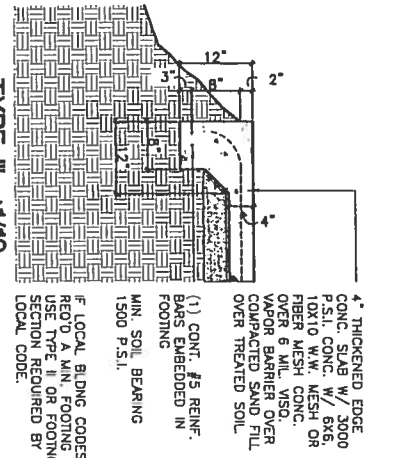
A3
ROOF PANEL TO FASCIA
1 1/2" = 1'-0"
ROOF-39



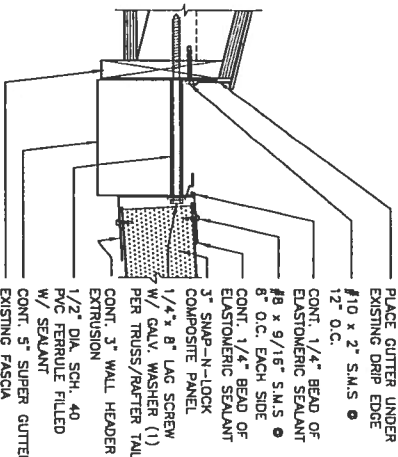
A4
TYPE I 0 - 2/12 FLAT SLOPE FOOTING
3/8" = 1'-0"
SLAB16



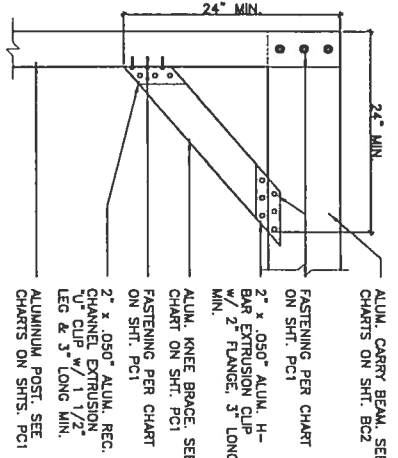
A5
TYPE II 2/12 TO 1/10 MODERATE SLOPE FOOTING
3/8" = 1'-0"
SLAB15



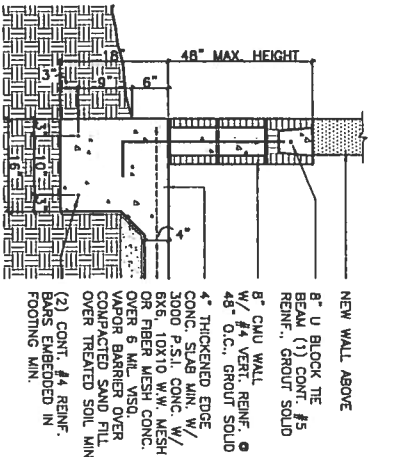
A6
TYPE III >1/10 STEEP SLOPE FOOTING
3/8" = 1'-0"
SLAB14



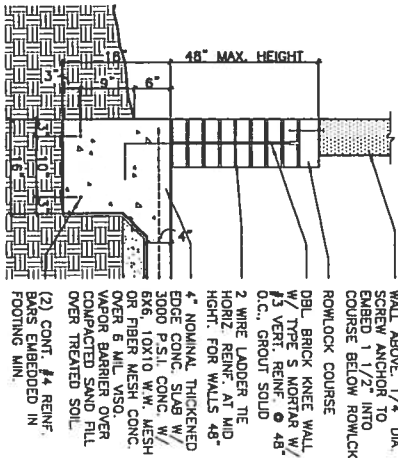
B1
PANEL ROOF TO EXIST. FASCIA w/ SUPER GUTTER
1 1/2" = 1'-0"
ROOF-32



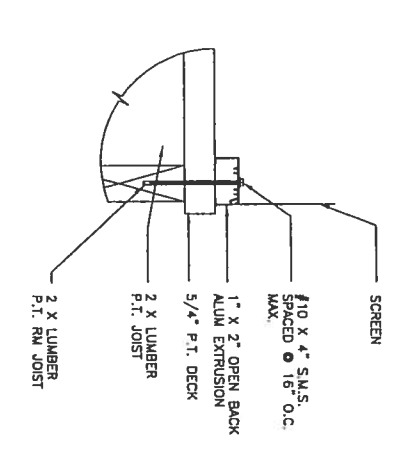
B2
KNEE BRACING @ POST TO BEAM (4th WALL FRAME)
3/4" = 1'-0"
PS1BMA32



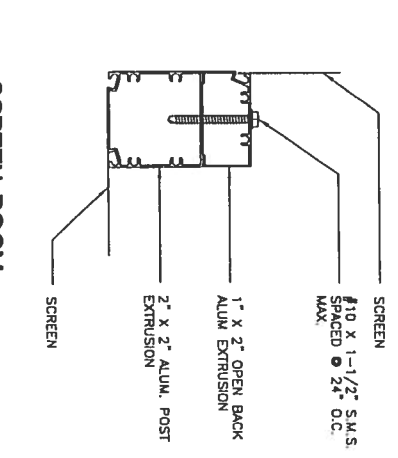
B3
FOOTING @ SLAB EDGE w/ CMU KNEE WALL
3/8" = 1'-0"
SLAB19



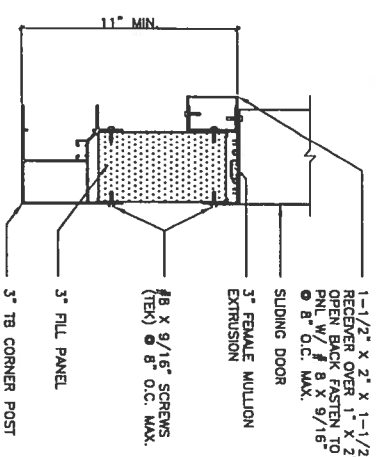
B4
FOOTING @ SLAB EDGE w/ BRICK KNEE WALL
3/8" = 1'-0"
SLAB19



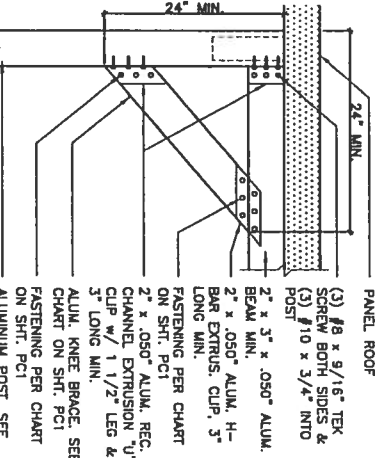
B5
SCREEN WALL TO DECK
3/8" = 1'-0"
FLAWM06



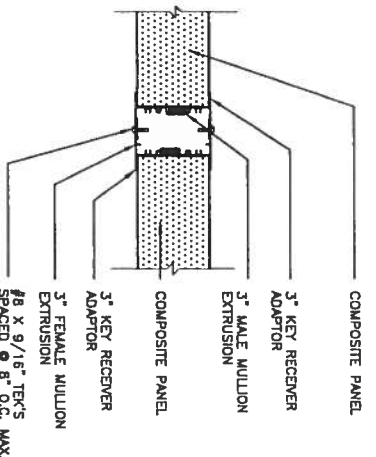
B6
SCREEN ROOM CORNER DETAIL
3/8" = 1'-0"
WALL10



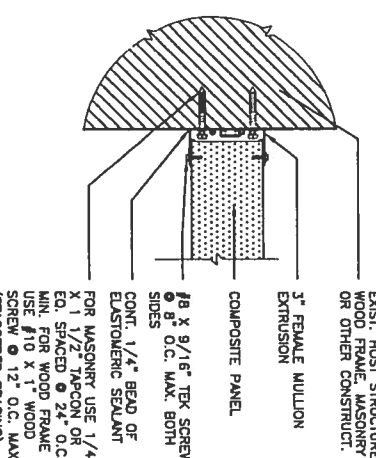
C1
3" MODULAR ROOM SLIDING DR TO CORNER
1 1/2" = 1'-0"
MRDTL01



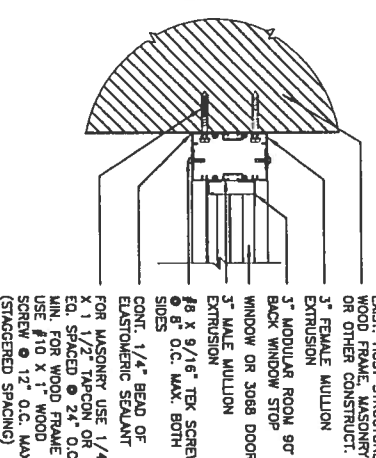
C2
KNEE BRACING @ BEAM PARALLEL TO PANELS
3/4" = 1'-0"
PS1BMA32



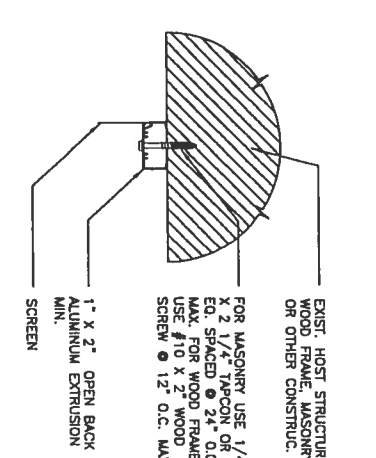
C3
3" MODULAR ROOM MALE/FEMALE MULLION CONN
1 1/2" = 1'-0"
MRDTL03



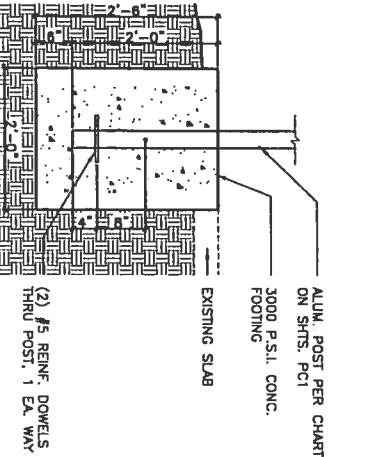
C4
3" MODULAR ROOM FILL PNL TO EXIST. STRUCT
1 1/2" = 1'-0"
MRDTL04



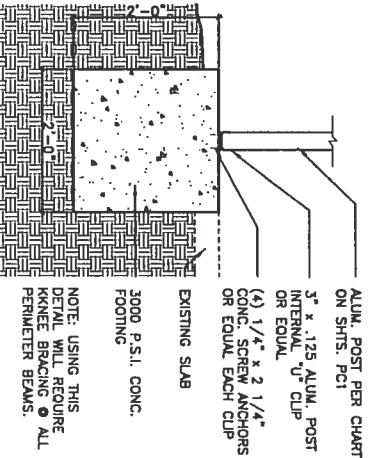
C5
3" MODULAR ROOM MODULE TO EXIST. STRUCT
1 1/2" = 1'-0"
MRDTL05



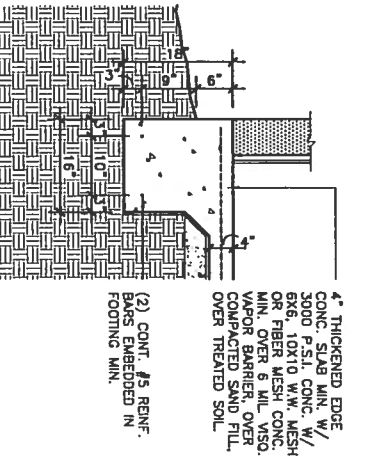
C6
SCREEN WALL @ HOST STRUCTURE
3/8" = 1'-0"
WALL11



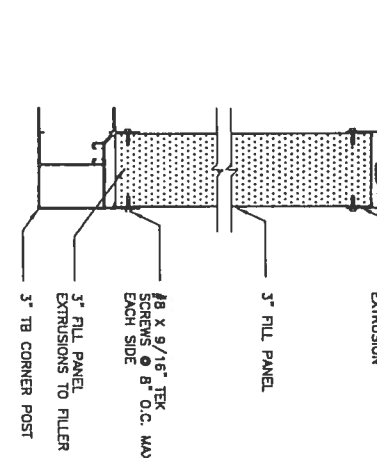
D1
POST TO FOOTING w/OUT BRACING (4th WALL FRAME)
3/8" = 1'-0"
SLAB47



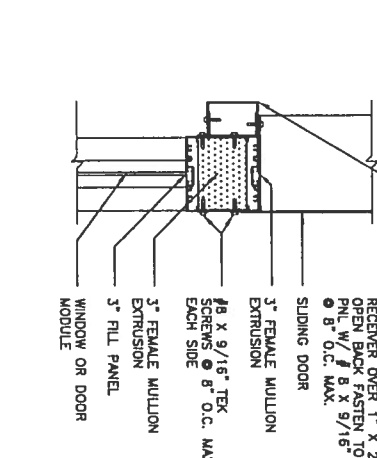
D2
POST TO FOOTING WITH BRACING (4th WALL FRAME)
3/8" = 1'-0"
SLAB47



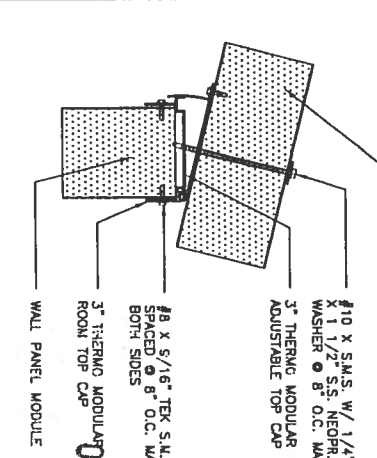
D3
GLASS ROOM EDGE FOOTING WINDS 100 MPH & ABOVE
3/8" = 1'-0"
SLAB12



D4
3" MODULAR ROOM FILL PNL @ CORNER POST
1 1/2" = 1'-0"
MRDTL02



D5
MODULAR ROOM WALL TO SLIDING DOOR
1 1/2" = 1'-0"
MRDTL07



D6
3" MODULAR ROOM WALL MODULE TO PNL ROOF
1 1/2" = 1'-0"
MRDTL06

SPLINE/HEADER (NON LOAD BEARING)

FASTEN TO EXISTING 2 X CONST.
W/ #10 x 2 1/2" WOOD SCREW
SPACED @ 24" O.C. MAX.

FASTEN TO O.S.B. PANEL W/
8d COMMON NAILS TOP & BOTTOM
SPACED @ 6" O.C. MAX.

FOR MAX. CLEAR SPAN SEE CHART BELOW

#12 WASHER HEAD PANEL SCREW

SPACED @ 8" O.C. MAX.

SIZE FASTENER TO PENETRATE
2x8 BEAM A DEPTH OF 2" MIN.

COMPOSITE PANEL

EXISTING MOBILE HOME

EXISTING 2 X LUMBER CONST.

.024 ALUM. METAL VAPOR BARRIER FACTORY BONDED TO UNDERSIDE OF PANEL

DBL. P.T. PINE 2x8

FASTEN TO POST W/ 3/8" x 5" LAG SCREWS
W/ WASHERS, (2) PER 2x8 END, (4) PER
INNER POST, (2) PER END POST MIN.

EXISTING MOBILE
HOME SUB-
STRUCTURE

EXISTING MOBILE
HOME ANCHOR

(2) .125" x 1" x 2" x 3 1/2" ALUM. ANGLES

FASTEN ANGLE TO THE SLAB W/ 1/4" DIA. X 2"
CONC. SCREW ANCHORS OR EQUAL (2) PER ANGLE
MIN., FASTEN ANGLE TO THE POST W/ (2) 1/4" x
1 1/2" LAG SCREWS, (2) PER ANGLE MIN.

EXISTING CONC. SLAB

4" NOMINAL THICKNESS W/ REINFORCING

P.T. PINE 4x4 POSTS
SPACED @ 8'-0" O.C. MAX.

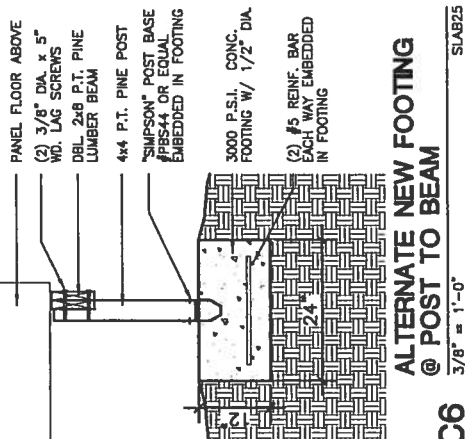
FOR WEATHER EXPOSED APPLICATION MIN.

#12 WASHER HEAD PANEL SCREW
SPACED @ 8" O.C. MAX.
SIZE FASTENER TO PENETRATE
2x8 BEAM A DEPTH OF 2" MIN.

2'-0" MAX.

2x8 SPF SPLINE
FASTEN TO O.S.B. PANEL
W/ 8d COMMON NAILS
TOP & BOTTOM
SPACED @ 6" O.C.

BREAKMETAL EDGE CAP
.024 ALUM. BREAKMETAL
FLOOR EDGE CAP. FASTEN
TO FLOOR PANEL W/ 8d
COMMON NAILS @ 6" O.C. MAX.



ALTERNATE NEW FOOTING
@ POST TO BEAM
C6 3/8" = 1'-0"

Double OSB Composite Panel Deck

1 1/2" = 1'-0"

MAXIMUM SPAN CHART FOR O.S.B. FLOOR PANEL FOR RESIDENTIAL ONLY

- * 4 1/2" O.S.B. PNL MAX SPAN 8'-0" @ 42.5 #/SQ.FT. LOAD.
- * 6 1/2" O.S.B. PNL MAX SPAN 12'-0" @ 42.5 #/SQ.FT. LOAD.
- * 8 1/2" O.S.B. PNL MAX SPAN 14'-0" @ 42.5 #/SQ.FT. LOAD.

NOTES

FOR WALL SYSTEM TO DECK CONNECTION
SEE DETAIL B3 ON PAGE CD1

DBL. OSB COMPOSITE PANEL DECKS SHALL
NOT TO BE USED IF TOP SIDE WILL BE
EXPOSED TO MOISTURE DUE TO WEATHER.
FLOOR FINISHES TO BE INSTALLED PER
MANUFACTURERS SPECIFICATIONS.

Lawrence E. Bennett
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
PO BOX 4368
SOUTH DAYTONA, FLORIDA 32121
TEL (386) 767-4774

Table 1 Allowable Edge Beam Spans - Hollow Extrusions
For Screen Rooms or Vinyl Rooms / Open or Partially Enclosed Structures
Aluminum Alloy 6063 T-6

Hollow Sections	Tributary Load Width "W" = Purlin Spacing					
	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"
Allowable Span "L" / bending "b" or deflection "d"						
2" x 2" x 0.044"	6'-2" b	5'-8" b	5'-3" b	4'-11" b	4'-7" b	4'-4" b
2" x 2" x 0.055"	6'-9" b	6'-2" b	5'-6" b	5'-4" b	5'-0" b	4'-6" b
3" x 2" x 0.045"	7'-1" d	6'-6" b	6'-0" b	5'-8" b	5'-4" b	5'-1" b
2" x 3" x 0.045"	8'-10" d	8'-4" d	7'-8" b	7'-2" b	6'-9" b	6'-5" b
2" x 4" x 0.050"	11'-2" b	10'-2" b	9'-5" b	8'-10" b	8'-4" b	7'-11" b

* For Maximum Spans at wind velocities other than 120 MPH, see Conversion Table 3A

Note:

1. Tables assume extrusion oriented with longer extrusion dimension parallel to applied load.
2. For high velocity wind zones convert to 130 MPH spans.

Example: To calculate maximum span "L" at 140 MPH wind velocity for:

2" x 2" x 0.044" Hollow Extrusion with Load Width = 8'

1. Find "L" at 120 MPH: L = 4'-11"
2. Convert "L" to decimal feet: L = 4'-11" = 4.92'
3. Select the appropriate multiplier from the conversion table 3A

- If the span is followed by "b" use Bending multiplier.
- If the span is followed by "d" use Deflection Multiplier.

4. Multiply "L" in decimal feet by appropriate multiplier.

"L" at 140 MPH is 4.92 x 0.87 = 4.28' = 4'-3"

Table 2 Allowable Beam Spans For Screen or Vinyl Rooms / Open or Partially Enclosed Structures
Aluminum Alloy 6063 T-6

For 3 second wind gust at velocity of 120 MPH or an applied load of 13 # / sq. ft. Exposure B

Single Self-Mating Beams	Tributary Load Width							
	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
Allowable Span "L" / bending "b" or deflection "d"								
2" x 4" x 0.044" x 0.100"	12'-6" d	11'-9" d	11'-2" d	10'-8" d	10'-3" d	9'-11" d	8'-7" d	8'-4" d
2" x 5" x 0.050" x 0.100"	15'-6" d	14'-7" d	13'-11" d	13'-3" d	12'-9" d	12'-4" d	11'-11" d	11'-7" d
2" x 6" x 0.050" x 0.120"	18'-2" d	17'-1" d	16'-3" d	15'-6" d	14'-11" d	14'-5" d	13'-11" d	13'-7" d
2" x 7" x 0.055" x 0.120"	20'-11" d	19'-8" d	18'-8" d	17'-10" d	17'-2" d	16'-7" d	16'-1" d	15'-7" d
2" x 8" x 0.072" x 0.224"	25'-11" d	24'-5" d	23'-2" d	22'-2" d	21'-4" d	20'-7" d	19'-11" d	18'-5" d
2" x 9" x 0.072" x 0.224"	28'-11" d	27'-3" d	25'-10" d	24'-9" d	23'-9" d	22'-11" d	22'-3" d	21'-7" d
2" x 10" x 0.092" x 0.369"	35'-3" d	33'-2" d	31'-6" d	30'-1" d	28'-11" d	27'-11" d	27'-1" d	26'-4" d

Double Self-Mating Beams	Tributary Load Width							
	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
Allowable Span "L" / bending "b" or deflection "d"								
2" x 8" x 0.072" x 0.224"	32'-8" d	30'-9" d	29'-3" d	27'-11" d	26'-11" d	25'-11" d	25'-2" d	24'-5" d
2" x 9" x 0.072" x 0.224"	36'-5" d	34'-3" d	32'-7" d	31'-2" d	29'-11" d	28'-11" d	28'-0" d	26'-6" d
2" x 10" x 0.092" x 0.369"	44'-5" d	41'-9" d	39'-8" d	37'-11" d	36'-6" d	35'-3" d	34'-2" d	33'-2" d

* For Maximum Spans at wind velocities other than 120 MPH, see Conversion Table 3B on the specification page for tables at the beginning of this section and example below.

Note:

1. It is recommended that the engineer be consulted on any carrier beam that spans more than 55'
2. Spans are based on 140 M.P.H. wind load plus dead load for framing.
3. Span is measured from center of connection to fascia or wall connection.
4. Above spans do not include length of knee brace. Add horizontal length of knee brace to above spans for total beam spans.
5. For high velocity wind zones convert to 130 MPH spans.

Example: To calculate maximum span "L" at 140 MPH wind velocity for:

2" x 2" x 0.044" Single Self Mating Beam with Load Width = 4'

1. Find "L" at 120 MPH: L = 10'-8"
2. Convert "L" to decimal feet: L = 10'-8" = 10.67'
3. Select the appropriate multiplier from the conversion table 3A found on the specification sheet at the beginning of this section.
- If the span is followed by "b" use Bending multiplier.
- If the span is followed by "d" use Deflection multiplier.
4. Multiply "L" in decimal feet by appropriate multiplier.

"L" at 140 MPH is 9.92 x 0.91 = 9.03' = 9'-0"

Conversion Table 3A Wind Zone Conversions for Open Rooms
From 120 MPH Wind Zone to Others Exposure B

Wind Zone MPH	Roofs			Walls		
	Applied Load (#/Sq.Ft.)	Deflection (d)	Bending (b)	Applied Load (#/Sq.Ft.)	Deflection (d)	Bending (b)
90 & 100	10	1.09	1.14	10	1.12	1.18
110	11	1.06	1.09	11	1.08	1.13
120	13	1.00	1.00	14	1.00	1.00
123	14	0.98	0.97	15	0.98	0.97
130	15	0.95	0.93	16	0.96	0.94
140	17	0.91	0.87	18	0.92	0.88
150	20	0.87	0.81	21	0.87	0.82

For Exposure C apply an additional multiplier of 0.85 to further reduce spans

Table 3

Allowable Spans for Ridge Beams with Self Mating Beams
For Screen Rooms or Vinyl Rooms / Open or Partially Enclosed Structures

For 3 second wind gust at velocity of 120 MPH or an applied load of 13 # / sq. ft. Exposure B

Self Mating Sections	Tributary Load Width "W" = Purlin Spacing					
	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"
Allowable Span "L" / bending "b" or deflection "d"						
2" x 4" x 0.044" x 0.100"	12'-11" b	11'-10" b	10'-11" b	10'-3" b	9'-8" b	9'-2" b
2" x 5" x 0.050" x 0.100"	16'-1" b	14'-8" b	13'-7" b	12'-9" b	11'-11" b	11'-5" b
2" x 6" x 0.050" x 0.120"	18'-7" b	16'-11" b	15'-8" b	14'-9" b	13'-10" b	13'-2" b
2" x 7" x 0.055" x 0.120"	21'-3" b	19'-5" b	17'-11" b	16'-9" b	15'-10" b	15'-0" b
2" x 8" x 0.072" x 0.224"	27'-7" b	25'-2" b	23'-4" b	21'-10" b	20'-7" b	19'-6" b
2" x 9" x 0.072" x 0.224"	30'-7" b	27'-11" b	25'-10" b	24'-2" b	22'-9" b	21'-7" b

* For Maximum Spans at wind velocities other than 120 MPH, see Conversion Table 3A

Notes:

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.

Example: To calculate maximum span "L" at 140 MPH wind velocity for:

2" x 2" x 0.044" Self Mating Section with Load Width = 8'

1. Find "L" at 120 MPH: L = 10'-3"
2. Convert "L" to decimal feet: L = 10'-3" = 10.25'
3. Select the appropriate multiplier from the conversion table 3A
- If the span is followed by "b" use Bending multiplier.
- If the span is followed by "d" use Deflection multiplier.
4. Multiply "L" in decimal feet by appropriate multiplier.

"L" at 140 MPH is 10.25 x 0.87 = 8.92' = 8'-11"



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FAX 813-855-8128

Aluminum Beam Span Charts
Open & Partially Enclosed Structures
STANDARD ENGINEERING BOOK
Engineered by Lawrence E. Bennett P.E.

Project No. 101ENG
Date: 01-01-05
Drawing: 5RD

BC1



Table 1 Allowable Edge Beam Spans - Hollow Extrusions
For Glass / Enclosed Rooms

Aluminum Alloy 6063 T-6
For 3 second wind gust at velocity of 120 MPH or an applied load of 28 # / sq. ft.* Exposure B

Hollow Sections	Tributary Load Width "W" = Purlin Spacing						
	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"
2" x 2" x 0.044"	4'-4" b	3'-11" b	3'-8" b	3'-5" b	3'-3" b	3'-1" b	2'-11" b
2" x 2" x 0.055"	4'-9" b	4'-4" b	4'-0" b	3'-9" b	3'-7" b	3'-4" b	3'-1" b
3" x 2" x 0.045"	5'-1" b	4'-7" b	4'-3" b	3'-11" b	3'-9" b	3'-7" b	3'-5" b
2" x 3" x 0.045"	6'-5" b	5'-11" b	5'-5" b	5'-1" b	4'-10" b	4'-7" b	4'-2" b
2" x 4" x 0.050"	7'-11" b	7'-2" b	6'-8" b	6'-3" b	5'-11" b	5'-7" b	5'-1" b

* For Maximum Spans at wind velocities other than 120 MPH, see Conversion Table 3B

Notes:

1. Tables assume extrusion oriented with longer extrusion dimension parallel to applied load.
2. For high velocity zones, convert to 130 MPH spans.

Example: To calculate maximum span 'L' at 140 MPH wind velocity for:

2" x 2" x 0.044" Hollow Extrusion with Load Width = 8'

1. Find 'L' at 120 MPH: L = 3'-5"
2. Convert 'L' to decimal feet: L = 3'-5" = 3.42
3. Select the appropriate multiplier from the conversion table 3B

- if the span is followed by 'b' use Bending multiplier.
- if the span is followed by 'd' use Deflection Multiplier.
- 4. Multiply 'L' in decimal feet by appropriate multiplier.

'L' at 140 MPH is 3.42' x 0.87 = 2.98' = 2'-11"

Table 3 Allowable Spans For Forth Wall or Carrier Beams For Glass Rooms / Enclosed Structures
Aluminum Alloy 6063 T-6

For 3 second wind gust at velocity of 120 MPH or an applied load of 28 # / sq. ft.* Exposure B

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"
2" x 4" x 0.044" x 0.100"	9'-11" b	8'-1" b	6'-11" b	6'-3" b	5'-9" b	4'-11" b	4'-8" b	4'-5" b	4'-3" b	4'-0" b	3'-11" b
2" x 5" x 0.050" x 0.100"	12'-3" b	10'-0" b	8'-8" b	7'-9" b	7'-1" b	6'-7" b	6'-2" b	5'-9" b	5'-3" b	5'-0" b	4'-10" b
2" x 6" x 0.050" x 0.120"	14'-2" b	11'-7" b	10'-0" b	8'-11" b	8'-2" b	7'-7" b	7'-1" b	6'-8" b	6'-0" b	5'-9" b	5'-7" b
2" x 7" x 0.055" x 0.120"	16'-2" b	13'-3" b	11'-5" b	10'-3" b	9'-4" b	8'-8" b	8'-1" b	7'-8" b	6'-11" b	6'-7" b	6'-4" b
2" x 8" x 0.072" x 0.224"	21'-0" b	17'-2" b	14'-10" b	13'-3" b	12'-2" b	11'-3" b	10'-6" b	9'-11" b	8'-11" b	8'-7" b	8'-3" b
2" x 9" x 0.072" x 0.224"	23'-3" b	19'-0" b	16'-6" b	14'-9" b	13'-5" b	12'-5" b	11'-8" b	10'-11" b	9'-11" b	9'-6" b	9'-2" b
2" x 10" x 0.092" x 0.369"	29'-8" b	24'-3" b	21'-0" b	18'-9" b	17'-2" b	15'-10" b	14'-10" b	14'-0" b	13'-3" b	12'-8" b	12'-1" b

* For Maximum Spans at wind velocities other than 120 MPH, see Conversion Table 3B on the specification page for tables at the beginning of this section and example below.

Double 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"
2" x 8" x 0.072" x 0.224"	29'-0" d	24'-3" b	20'-11" b	18'-9" b	17'-2" b	15'-10" b	14'-10" b	13'-11" b	13'-3" b	12'-8" b	12'-1" b
2" x 9" x 0.072" x 0.224"	32'-4" d	26'-11" b	23'-3" b	20'-10" b	19'-0" b	17'-7" b	16'-6" b	15'-6" b	14'-9" b	14'-1" b	13'-5" b
2" x 10" x 0.092" x 0.369"	39'-5" d	34'-4" b	29'-8" b	26'-7" b	24'-3" b	22'-5" b	21'-0" b	19'-10" b	18'-9" b	17'-11" b	17'-2" b

* For Maximum Spans at wind velocities other than 120 MPH, see Conversion Table 3B on the specification page for tables at the beginning of this section and example below.

Notes:

1. It is recommended that the engineer be consulted on any carrier beam that spans more than 55'
2. Spans are based on 140 M.P.H. wind load plus dead load for framing.
3. Span is measured from center of connection to fascia or wall connection.
4. Above spans do not include length of knee brace. Add horizontal length of knee brace to above spans for total beam spans.
5. For high velocity zones, convert to 130 MPH spans.

Example: To calculate maximum span 'L' at 140 MPH wind velocity for:

2" x 2" x 0.044" Single Self Mating Beam with Load Width = 10'

1. Find 'L' at 120 MPH: L = 6'-3"
2. Convert 'L' to decimal feet: L = 6'-3" = 6.25'
3. Select the appropriate multiplier from the conversion table 3B found on the specification sheet at the beginning of this section.
 - if the span is followed by 'b' use Bending multiplier.
 - if the span is followed by 'd' use Deflection multiplier.
4. Multiply 'L' in decimal feet by appropriate multiplier.

'L' at 140 MPH is 6.25' x 0.91 = 5.69' = 5'-8"

Conversion Table 3B Wind Zone Conversions Spans
for Enclosed Rooms

From 120 MPH Wind Zone to Others Exposure B

Wind Zone MPH	Roofs			Walls			Overhang		
	Applied Load (#/Sq.Ft.)	Deflection (d)	Bending (b)	Applied Load (#/Sq.Ft.)	Deflection (d)	Bending (b)	Applied Load (#/Sq.Ft.)	Deflection (d)	Bending (b)
90 & 100	19	1.14	1.21	22	1.13	1.21	28	1.11	1.16
110	23	1.07	1.10	27	1.06	1.09	32	1.06	1.09
120	28	1.00	1.00	32	1.00	1.00	38	1.00	1.00
123	30	0.98	0.97	34	0.98	0.96	41	0.98	0.96
130	32	0.96	0.94	37	0.95	0.93	45	0.95	0.92
140	37	0.91	0.87	43	0.91	0.86	52	0.90	0.85
150	43	0.87	0.81	50	0.86	0.80	60	0.86	0.80

For Exposure C apply an additional multiplier of 0.85 to further reduce spans

Table 2 Allowable Spans for Ridge Beams with Self Mating Beams
For Glass Rooms / Enclosed Structures

For 3 second wind gust at velocity of 120 MPH or an applied load of 28 # / sq. ft.* Exposure B

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

* For Maximum Spans at wind velocities other than 120 MPH, see Conversion Table 3B

Notes:

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.

Example: To calculate maximum height 'L' at 140 MPH wind velocity for:

2" x 2" x 0.044" Self Mating Section with Load Width = 8'

1. Find 'L' at 120 MPH: L = 6'-11"
2. Convert 'L' to decimal feet: L = 6'-11" = 5.92'
3. Select the appropriate multiplier from the conversion table 3B

- if the span is followed by 'b' use Bending multiplier.
- if the span is followed by 'd' use Deflection multiplier.
- 4. Multiply 'L' in decimal feet by appropriate multiplier.

'L' at 140 MPH is 6.92' x 0.87 = 6.02' = 6'-0"

WALL
Section of wall, upright supports, measured in feet.
1/2 the opening span each side of upright combined.
Load Width is equal to the upright spacing.

Load Width	Wind Speed in MPH/Applied Load in PSF									
	100/9	110/11	120/13	123/14	130/15	140/18	150/20	160/23	170/27	180/32
3'-0"	10'-5"	9'-5"	8'-8"	8'-4"	8'-1"	7'-4"	6'-11"	6'-1"		
3'-6"	8'-0"	8'-0"	8'-0"	7'-6"	7'-6"	6'-10"	6'-6"	6'-6"		
4'-0"	9'-0"	8'-2"	7'-5"	7'-3"	6'-11"	6'-4"	6'-1"	6'-1"		
4'-6"	8'-6"	7'-8"	7'-1"	6'-8"	6'-10"	6'-7"	6'-0"	5'-8"		
5'-0"	8'-1"	7'-4"	6'-8"	6'-6"	6'-6"	5'-8"	5'-5"	5'-5"		
5'-6"	7'-8"	6'-11"	6'-5"	6'-2"	5'-11"	5'-5"	5'-2"	5'-2"		
6'-0"	7'-4"	6'-8"	6'-1"	5'-11"	5'-8"	5'-2"	4'-11"	4'-11"		
6'-6"	7'-1"	6'-5"	5'-11"	5'-8"	5'-6"	5'-0"	4'-8"	4'-8"		
7'-0"	6'-10"	6'-2"	5'-8"	5'-6"	5'-3"	4'-10"	4'-7"	4'-7"		
7'-6"	6'-7"	5'-11"	5'-6"	5'-3"	5'-1"	4'-8"	4'-5"	4'-5"		

Load Width	Wind Speed in MPH/Applied Load in PSF									
	100/9	110/11	120/13	123/14	130/15	140/18	150/20	160/23	170/27	180/32
3'-0"	11'-4"	10'-3"	9'-5"	8'-9"	8'-5"	8'-0"	7'-7"	7'-1"	6'-7"	6'-3"
3'-6"	10'-6"	9'-6"	8'-9"	8'-5"	8'-2"	7'-5"	7'-1"	6'-7"	6'-3"	6'-0"
4'-0"	9'-10"	8'-11"	8'-2"	7'-11"	7'-7"	6'-11"	6'-7"	6'-3"	6'-0"	5'-8"
4'-6"	9'-3"	8'-5"	7'-9"	7'-5"	7'-2"	6'-7"	6'-3"	5'-11"	5'-8"	5'-5"
5'-0"	8'-10"	7'-11"	7'-4"	7'-1"	6'-10"	6'-3"	5'-11"	5'-8"	5'-5"	5'-2"
5'-6"	8'-5"	7'-7"	6'-11"	6'-8"	6'-6"	5'-11"	5'-8"	5'-5"	5'-2"	5'-0"
6'-0"	8'-0"	7'-3"	6'-8"	6'-5"	6'-3"	5'-8"	5'-5"	5'-2"	5'-0"	4'-10"
6'-6"	7'-8"	6'-11"	6'-5"	6'-2"	5'-11"	5'-8"	5'-5"	5'-2"	4'-11"	4'-8"
7'-0"	7'-5"	6'-8"	6'-2"	5'-11"	5'-9"	5'-3"	4'-11"	4'-8"	4'-5"	4'-2"
7'-6"	7'-2"	6'-6"	5'-11"	5'-9"	5'-7"	5'-1"	4'-10"	4'-7"	4'-4"	4'-1"

	100/9	110/11	120/13	123/14	130/15	140/16	150/18	160/20
Load	3'-0"	12'-2"	11'-3"	10'-5"	10'-0"	9'-8"	8'-10"	8'-4"
Wind Speed in MPH/Applied Load in PSI	3'-6"	11'-7"	10'-5"	9'-7"	9'-3"	8'-11"	8'-2"	7'-9"
	4'-0"	10'-2"	9'-9"	8'-11"	8'-8"	8'-4"	7'-8"	7'-3"
	4'-8"	10'-2"	9'-3"	8'-6"	8'-2"	7'-11"	7'-2"	6'-10"
	5'-0"	9'-8"	8'-9"	8'-0"	7'-9"	7'-8"	6'-10"	6'-6"
	5'-6"	9'-3"	8'-4"	7'-8"	7'-5"	7'-2"	6'-6"	6'-2"
	6'-0"	8'-10"	7'-11"	7'-4"	7'-1"	6'-10"	6'-3"	5'-11"
	6'-6"	8'-6"	7'-8"	7'-1"	6'-10"	6'-7"	5'-11"	5'-8"
	7'-0"	8'-2"	7'-5"	6'-7"	6'-7"	6'-4"	5'-9"	5'-6"
	7'-6"	7'-11"	7'-2"	6'-7"	6'-6"	6'-1"	5'-7"	5'-3"

3" x 2" x .045
Hollow Section
6063 T-6 Alloy

Load Width	Wind Speed in MPH/Applied Load in PSF			
	100/9	110/11	123/14	130/15
3'-0"	13'-8"	12'-9"	12'-1"	11'-11"
3'-6"	12'-8"	12'-2"	11'-5"	11'-0"
4'-0"	12'-5"	11'-10"	10'-7"	9'-11"
4'-6"	11'-11"	10'-11"	10'-1"	9'-5"
5'-0"	11'-6"	10'-5"	9'-7"	9'-3"
5'-6"	10'-11"	9'-11"	9'-2"	8'-10"
6'-0"	10'-5"	9'-6"	8'-9"	8'-5"
6'-6"	10'-1"	9'-2"	8'-5"	8'-1"
7'-0"	9'-8"	8'-10"	8'-1"	7'-10"
7'-6"	9'-5"	8'-6"	7'-10"	7'-3"
8'-0"	9'-1"	8'-2"	7'-6"	7'-0"
8'-6"	8'-8"	8'-0"	7'-2"	6'-8"
9'-0"	8'-4"	7'-8"	6'-10"	6'-4"
9'-6"	8'-0"	7'-4"	6'-6"	6'-0"
10'-0"	7'-6"	7'-0"	6'-2"	5'-8"
10'-6"	7'-2"	6'-8"	5'-8"	5'-4"
11'-0"	6'-8"	6'-4"	5'-4"	5'-0"
11'-6"	6'-4"	6'-0"	5'-0"	4'-8"
12'-0"	6'-0"	5'-6"	4'-8"	4'-4"
12'-6"	5'-6"	5'-2"	4'-4"	4'-0"
13'-0"	5'-2"	4'-8"	4'-0"	3'-8"
13'-6"	4'-8"	4'-4"	3'-8"	3'-4"
14'-0"	4'-4"	4'-0"	3'-4"	3'-0"
14'-6"	4'-0"	3'-6"	3'-0"	2'-8"
15'-0"	3'-6"	3'-2"	2'-8"	2'-4"
15'-6"	3'-2"	2'-8"	2'-4"	2'-0"
16'-0"	2'-8"	2'-4"	2'-0"	1'-8"
16'-6"	2'-4"	2'-0"	1'-8"	1'-4"
17'-0"	2'-0"	1'-8"	1'-4"	1'-0"
17'-6"	1'-8"	1'-4"	1'-0"	0'-10"
18'-0"	1'-4"	1'-0"	0'-10"	0'-6"
18'-6"	1'-0"	0'-10"	0'-6"	0'-2"
19'-0"	0'-10"	0'-6"	0'-2"	0'-0"
19'-6"	0'-6"	0'-2"	0'-0"	-0'-2"
20'-0"	0'-2"	0'-0"	-0'-2"	-0'-6"
20'-6"	-0'-2"	-0'-6"	-0'-6"	-1'-0"
21'-0"	-0'-6"	-1'-0"	-1'-0"	-1'-4"
21'-6"	-1'-0"	-1'-4"	-1'-4"	-1'-8"
22'-0"	-1'-4"	-1'-8"	-1'-8"	-2'-2"
22'-6"	-1'-8"	-2'-2"	-2'-2"	-2'-6"
23'-0"	-2'-2"	-2'-6"	-2'-6"	-3'-0"
23'-6"	-2'-6"	-3'-0"	-3'-0"	-3'-4"
24'-0"	-3'-0"	-3'-4"	-3'-4"	-3'-8"
24'-6"	-3'-4"	-3'-8"	-3'-8"	-4'-2"
25'-0"	-3'-8"	-4'-2"	-4'-2"	-4'-6"
25'-6"	-4'-2"	-4'-6"	-4'-6"	-5'-0"
26'-0"	-4'-6"	-5'-0"	-5'-0"	-5'-4"
26'-6"	-5'-0"	-5'-4"	-5'-4"	-5'-8"
27'-0"	-5'-4"	-5'-8"	-5'-8"	-6'-2"
27'-6"	-5'-8"	-6'-2"	-6'-2"	-6'-6"
28'-0"	-6'-2"	-6'-6"	-6'-6"	-7'-0"
28'-6"	-6'-6"	-7'-0"	-7'-0"	-7'-4"
29'-0"	-7'-0"	-7'-4"	-7'-4"	-7'-8"
29'-6"	-7'-4"	-7'-8"	-7'-8"	-8'-2"
30'-0"	-7'-8"	-8'-2"	-8'-2"	-8'-6"
30'-6"	-8'-2"	-8'-6"	-8'-6"	-9'-0"
31'-0"	-8'-6"	-9'-0"	-9'-0"	-9'-4"
31'-6"	-9'-0"	-9'-4"	-9'-4"	-9'-8"
32'-0"	-9'-4"	-9'-8"	-9'-8"	-10'-2"
32'-6"	-9'-8"	-10'-2"	-10'-2"	-10'-6"
33'-0"	-10'-2"	-10'-6"	-10'-6"	-11'-0"
33'-6"	-10'-6"	-11'-0"	-11'-0"	-11'-4"
34'-0"	-11'-0"	-11'-4"	-11'-4"	-11'-8"
34'-6"	-11'-4"	-11'-8"	-11'-8"	-12'-2"
35'-0"	-11'-8"	-12'-2"	-12'-2"	-12'-6"
35'-6"	-12'-2"	-12'-6"	-12'-6"	-13'-0"
36'-0"	-12'-6"	-13'-0"	-13'-0"	-13'-4"
36'-6"	-13'-0"	-13'-4"	-13'-4"	-13'-8"
37'-0"	-13'-4"	-13'-8"	-13'-8"	-14'-2"
37'-6"	-13'-8"	-14'-2"	-14'-2"	-14'-6"
38'-0"	-14'-2"	-14'-6"	-14'-6"	-15'-0"
38'-6"	-14'-6"	-15'-0"	-15'-0"	-15'-4"
39'-0"	-15'-0"	-15'-4"	-15'-4"	-15'-8"
39'-6"	-15'-4"	-15'-8"	-15'-8"	-16'-2"
40'-0"	-15'-8"	-16'-2"	-16'-2"	-16'-6"
40'-6"	-16'-2"	-16'-6"	-16'-6"	-17'-0"
41'-0"	-16'-6"	-17'-0"	-17'-0"	-17'-4"
41'-6"	-17'-0"	-17'-4"	-17'-4"	-17'-8"
42'-0"	-17'-4"	-17'-8"	-17'-8"	-18'-2"
42'-6"	-17'-8"	-18'-2"	-18'-2"	-18'-6"
43'-0"	-18'-2"	-18'-6"	-18'-6"	-19'-0"
43'-6"	-18'-6"	-19'-0"	-19'-0"	-19'-4"
44'-0"	-19'-0"	-19'-4"	-19'-4"	-19'-8"
44'-6"	-19'-4"	-19'-8"	-19'-8"	-20'-2"
45'-0"	-19'-8"	-20'-2"	-20'-2"	-20'-6"
45'-6"	-20'-2"	-20'-6"	-20'-6"	-21'-0"
46'-0"	-20'-6"	-21'-0"	-21'-0"	-21'-4"
46'-6"	-21'-0"	-21'-4"	-21'-4"	-21'-8"
47'-0"	-21'-4"	-21'-8"	-21'-8"	-22'-2"
47'-6"	-21'-8"	-22'-2"	-22'-2"	-22'-6"
48'-0"	-22'-2"	-22'-6"	-22'-6"	-23'-0"
48'-6"	-22'-6"	-23'-0"	-23'-0"	-23'-4"
49'-0"	-23'-0"	-23'-4"	-23'-4"	-23'-8"
49'-6"	-23'-4"	-23'-8"	-23'-8"	-24'-2"
50'-0"	-23'-8"	-24'-2"	-24'-2"	-24'-6"
50'-6"	-24'-2"	-24'-6"	-24'-6"	-25'-0"
51'-0"	-24'-6"	-25'-0"	-25'-0"	-25'-4"
51'-6"	-25'-0"	-25'-4"	-25'-4"	-25'-8"
52'-0"	-25'-4"	-25'-8"	-25'-8"	-26'-2"
52'-6"	-25'-8"	-26'-2"	-26'-2"	-26'-6"
53'-0"	-26'-2"	-26'-6"	-26'-6"	-27'-0"
53'-6"	-26'-6"	-27'-0"	-27'-0"	-27'-4"
54'-0"	-27'-0"	-27'-4"	-27'-4"	-27'-8"
54'-6"	-27'-4"	-27'-8"	-27'-8"	-28'-2"
55'-0"	-27'-8"	-28'-2"	-28'-2"	-28'-6"
55'-6"	-28'-2"	-28'-6"	-28'-6"	-29'-0"
56'-0"	-28'-6"	-29'-0"	-29'-0"	-29'-4"
56'-6"	-29'-0"	-29'-4"	-29'-4"	-29'-8"
57'-0"	-29'-4"	-29'-8"	-29'-8"	-30'-2"
57'-6"	-29'-8"	-30'-2"	-30'-2"	-30'-6"
58'-0"	-30'-2"	-30'-6"	-30'-6"	-31'-0"
58'-6"	-30'-6"	-31'-0"	-31'-0"	-31'-4"
59'-0"	-31'-0"	-31'-4"	-31'-4"	-31'-8"
59'-6"	-31'-4"	-31'-8"	-31'-8"	-32'-2"
60'-0"	-31'-8"	-32'-2"	-32'-2"	-32'-6"
60'-6"	-32'-2"	-32'-6"	-32'-6"	-33'-0"
61'-0"	-32'-6"	-33'-0"	-33'-0"	-33'-4"
61'-6"	-33'-0"	-33'-4"	-33'-4"	-33'-8"
62'-0"	-33'-4"	-33'-8"	-33'-8"	-34'-2"
62'-6"	-33'-8"	-34'-2"	-34'-2"	-34'-6"
63'-0"	-34'-2"	-34'-6"	-34'-6"	-35'-0"
63'-6"	-34'-6"	-35'-0"	-35'-0"	-35'-4"
64'-0"	-35'-0"	-35'-4"	-35'-4"	-35'-8"
64'-6"	-35'-4"	-35'-8"	-35'-8"	-36'-2"
65'-0"	-35'-8"	-36'-2"	-36'-2"	-36'-6"
65'-6"	-36'-2"	-36'-6"	-36'-6"	-37'-0"
66'-0"	-36'-6"	-37'-0"	-37'-0"	-37'-4"
66'-6"	-37'-0"	-37'-4"	-37'-4"	-37'-8"
67'-0"	-37'-4"	-37'-8"	-37'-8"	-38'-2"
67'-6"	-37'-8"	-38'-2"	-38'-2"	-38'-6"
68'-0"	-38'-2"	-38'-6"	-38'-6"	-39'-0"
68'-6"	-38'-6"	-39'-0"	-39'-0"	-39'-4"
69'-0"	-39'-0"	-39'-4"	-39'-4"	-39'-8"
69'-6"	-39'-4"	-39'-8"	-39'-8"	-40'-2"
70'-0"	-39'-8"	-40'-2"	-40'-2"	-40'-6"
70'-6"	-40'-2"	-40'-6"	-40'-6"	-41'-0"
71'-0"	-40'-6"	-41'-0"	-41'-0"	-41'-4"
71'-6"	-41'-0"	-41'-4"	-41'-4"	-41'-8"
72'-0"	-41'-4"	-41'-8"	-41'-8"	-42'-2"
72'-6"	-41'-8"	-42'-2"	-42'-2"	-42'-6"
73'-0"	-42'-2"	-42'-6"	-42'-6"	-43'-0"
73'-6"	-42'-6"	-43'-0"	-43'-0"	-43'-4"
74'-0"	-43'-0"	-43'-4"	-43'-4"	-43'-8"
74'-6"	-43'-4"	-43'-8"	-43'-8"	-44'-2"
75'-0"	-43'-8"	-44'-2"	-44'-2"	-44'-6"
75'-6"	-44'-2"	-44'-6"	-44'-6"	-45'-0"
76'-0"	-44'-6"	-45'-0"	-45'-0"	-45'-4"
76'-6"	-45'-0"	-45'-4"	-45'-4"	-45'-8"
77'-0"	-45'-4"	-45'-8"	-45'-8"	-46'-2"
77'-6"	-45'-8"	-46'-2"	-46'-2"	-46'-6"
78'-0"	-46'-2"	-46'-6"	-46'-6"	-47'-0"
78'-6"	-46'-6"	-47'-0"	-47'-0"	-47'-4"
79'-0"	-47'-0"	-47'-4"	-47'-4"	-47'-8"
79'-6"	-47'-4"	-47'-8"	-47'-8"	-48'-2"
80'-0"	-47'-8"	-48'-2"	-48'-2"	-48'-6"
80'-6"	-48'-2"	-48'-6"	-48'-6"	-49'-0"
81'-0"	-48'-6"	-49'-0"	-49'-0"	-49'-4"
81'-6"	-49'-0"	-49'-4"	-49'-4"	-49'-8"
82'-0"	-49'-4"	-49'-8"	-49'-8"	-50'-2"
82'-6"	-49'-8"	-50'-2"	-50'-2"	-50'-6"
83'-0"	-50'-2"	-50'-6"	-50'-6"	-51'-0"
83'-6"	-50'-6"	-51'-0"	-51'-0"	-51'-4"
84'-0"	-51'-0"	-51'-4"	-51'-4"	-51'-8"
84'-6"	-51'-4"	-51'-8"	-51'-8"	-52'-2"
85'-0"	-51'-8"	-52'-2"	-52'-2"	-52'-6"
85'-6"	-52'-2"	-52'-6"	-52'-6"	-53'-0"
86'-0"	-52'-6"	-53'-0"	-53'-0"	-53'-4"
86'-6"	-53'-0"	-53'-4"	-53'-4"	-53'-8"
87'-0"	-53'-4"	-53'-8"	-53'-8"	-54'-2"
87'-6"	-53'-8"	-54'-2"	-54'-2"	-54'-6"
88'-0"	-54'-2"	-54'-6"	-54'-6"	-55'-0"
88'-6"	-54'-6"	-55'-0"	-55'-0"	-55'-4"
89'-0"	-55'-0"	-55'-4"	-55'-4"	-55'-8"
89'-6"	-55'-4"	-55'-8"	-55'-8"	-56'-2"
90'-0"	-55'-8"	-56'-2"	-56'-2"	-56'-6"
90'-6"	-56'-2"	-56'-6"	-56'-6"	-57'-0"
91'-0"	-56'-6"	-57'-0"	-57'-0"	-57'-4"
91'-6"	-57'-0"	-57'-4"	-57'-4"	-57'-8"
92'-0"	-57'-4"	-57'-8"	-57'-8"	-58'-2"
92'-6"	-57'-8"	-58'-2"	-58'-2"	-58'-6"
93'-0"	-58'-2"	-58'-6"	-58'-6"	-59'-0"
93'-6"	-58'-6"	-59'-0"	-59'-0"	-59'-4"
94'-0"	-59'-0"	-59'-4"	-59'-4"	-59'-8"
94'-6"	-59'-4"	-59'-8"	-59'-8"	-60'-2"
95'-0"	-59'-8"	-60'-2"	-60'-2"	-60'-6"
95'-6"	-60'-2"	-60'-6"	-60'-6"	-61'-0"
96'-0"	-60'-6"	-61'-0"	-61'-0"	-61'-4"
96'-6"	-61'-0"	-61'-4"	-61'-4"	-61'-8"
97'-0"	-61'-4"	-61'-8"	-61'-8"	-62'-2"
97'-6"	-61'-8"	-62'-2"	-62'-2"	-62'-6"
98'-0"	-62'-2"	-62'-6"	-62'-6"	-63'-0"
98'-6"	-62'-6"	-63'-0"	-63'-0"	-63'-4"
99'-0"	-63'-0"	-63'-4"	-63'-4"	-63'-8"
99'-6"	-63'-4"	-63'-8"	-63'-8"	-64'-2"
100'-0"	-63'-8"	-64'-2"	-64'-2"	-64'-6"
100'-6"	-64'-2"	-64'-6"	-64'-6"	-65'-0"
101'-0"	-64'-6"	-65'-0"	-65'-0"	-65'-4"
101'-6"	-65'-0"	-65'-4"	-65'-4"	-65'-8"
102'-0"	-65'-4"	-65'-8"	-65'-8"	-66'-2"
102'-6"	-65'-8"	-66'-2"	-66'-2"	-66'-6"
103'-0"	-66'-2"	-66'-6"	-66'-6"	-67'-0"
103'-6"	-66'-6"	-67'-0"	-67'-0"	-67'-4"
104'-0"	-67'-0"	-67'-4"	-67'-4"	-67'-8"
104'-6"	-67'-4"	-67'-8"	-67'-8"	-68'-2"
105'-0"	-67'-8"	-68'-2"	-68'-2"	-68'-6"
105'-6"	-68'-2"	-68'-6"	-68'-6"	-69'-0"
106'-0"	-68'-6"	-69'-0"	-69'-0"	-69'-4"
106'-6"	-69'-0"	-69'-4"	-69'-4"	-69'-8"
107'-0"	-69'-4"	-69'-8"	-69'-8"	-70'-2"
107'-6"	-69'-8"	-70'-2"	-70'-2"	-70'-6"
108'-0"	-70'-2"	-70'-6"	-70'-6"	-71'-0"
108'-6"	-70'-6"	-71'-0"	-71'-0"	-71'-4"
109'-0"	-71'-0"	-71'-4"	-71'-4"	-71'-8"
109'-6"	-71'-4"	-71'-8"	-71'-8"	-72'-2"
110'-0"	-71'-8"	-72'-2"	-72'-2"	-72'-6"
110'-6"	-72'-2"	-72'-6"	-72'-6"	-73'-0"
111'-0"	-72'-6"	-73'-0"	-73'-0"	-73'-4"
111'-6"	-73'-0"	-73'-4"	-73'-4"	-73'-8"
112'-0"	-73'-4"	-73'-8"	-73'-8"	-74'-2"
112'-6"	-73'-8"	-74'-2"	-74'-2"	-74'-6"
113'-0"	-74'-2"	-74'-6"	-74'-6"	-75'-0"
113'-6"	-74'-6"	-75'-0"	-75'-0"	-75'-4"
114'-0"	-75'-0"	-75'-4"	-75'-4"	-75'-8"
114'-6"	-75'-4"	-75'-8"	-75'-8"	-76'-2"
115'-0"	-75'-8"	-76'-2"	-76'-2"	-76'-6"
115'-6"	-76'-2"	-76'-6"	-76'-6"	-77'-0"
116'-0"	-76'-6"	-77'-0"	-77'-0"	-77'-4"
116'-6"	-77'-0"	-77'-4"	-77'-4"	-77'-8"
117'-0"	-77'-4"	-77'-8"	-77'-8"	-78'-2"
117'-6"	-77'-8"	-78'-2"	-78'-2"	-78'-6"
118'-0"	-78'-2"	-78'-6"	-78'-6"	-79'-0"
118'-6"	-78'-6"	-79'-0"	-79'-0"	-79'-4"
119'-0"	-79'-0"	-79'-4"	-79'-4"	-79'-8"
119'-6"	-79'-4"	-79'-8"	-79'-8"	-80'-2"
120'-0"	-79'-8"	-80'-2"	-80'-2"	-80'-6"
120'-6"	-80'-2"	-80'-6"	-80'-6"	-81'-0"
121'-0"	-80'-6"	-81'-0"	-81'-0"	-81'-4"
121'-6"	-81'-0"	-81'-4"	-81'-4"	-81'-8"
122'-0"	-81'-4"	-81'-8"	-81'-8"	-82'-2"
122'-6"	-81'-8"	-82'-2"	-82'-2"	-82'-6"
123'-0"	-82'-2"	-82'-6"	-82'-6"	-83'-0"
123'-6"	-82'-6"	-83'-0"	-83'-0"	-83'-4"
124'-0"	-83'-0"	-83'-4"	-83'-4"	-83'-8"
124'-6"	-83'-4"	-83'-8"	-83'-8"	-84'-2"
125'-0"	-83'-8"	-84'-2"	-84'-2"	-84'-6"
125'-6"	-84'-2"	-84'-6"	-84'-6"	-85'-0"
126'-0"	-84'-6"	-85'-0"	-85'-0"	-85'-4"
126'-6"	-85'-0"	-85'-4"	-85'-4"	-85'-8"
127'-0"	-85'-4"	-85'-8"	-85'-8"	-86'-2"
127'-6"	-85'-8"	-86'-2"	-86'-2"	-86'-6"
128'-0"	-86'-2"	-86'-6"	-86'-6"	-87'-0"
128'-6"	-86'-6"	-87'-0"	-87'-0"	-87'-4"
129'-0"	-87'-0"	-87'-4"	-87'-4"	-87'-8"
129'-6"	-87'-4"	-87'-8"	-87'-8"	-88'-2"
130'-0"				

Load Width	Wind Speed in MPH/Applied Load in PSF
3'-0"	14'-1 12'-9" 12'-6" 12'-5" 11'-11" 10'-11" 10'-4"
3'-6"	13'-0" 11'-9" 11'-5" 11'-5" 11'-1" 10'-1" 9'-7"
4'-0"	12'-11" 11'-0" 10'-10" 10'-9" 10'-4" 9'-5" 8'-11"
4'-6"	11'-8" 10'-5" 10'-2" 10'-1" 9'-9" 8'-11" 8'-5"
5'-0"	10'-11" 9'-10" 9'-8" 9'-7" 9'-3" 8'-5" 8'-0"
5'-6"	10'-11" 9'-5" 9'-3" 9'-2" 8'-10" 8'-1" 7'-8"
6'-0"	9'-11" 8'-11" 8'-10" 8'-9" 8'-5" 7'-9" 7'-4"
6'-6"	9'-7" 8'-8" 8'-6" 8'-5" 8'-2" 7'-5" 7'-0"
7'-0"	9'-2" 8'-4" 8'-2" 8'-1" 7'-10" 7'-2" 6'-9"
7'-6"	8'-11" 8'-1" 7'-11" 7'-10" 7'-7" 6'-11" 6'-7"

STRUTAL®
BUILDING SYSTEMS

350 BLURBANK ROAD
OLDSMAR, FLORIDA
34677

NATIONWIDE LOCAL
FA

Allowable Upright Heights for "Screen Rooms"
STRUCTALL BUILDING SYSTEMS STANDARD ENGINEERING
 Engineered by **LAWRENCE E. BENNETT P.E.**
P.O. BOX 4368, S. Daytona, FL 32121, Tel. (386) 767-4774

None	Page
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WALL
Section of wall, upright supports, measured in feet.
1/2 the opening span each side of upright combined
Load Width is equal to the upright spacing

Load Width	Wind Speed in MPH/Applied Load in PSF									
	100/9	110/11	120/13	123/14	130/15	140/16	150/18	160/20	180/23	200/27
3'-0"	28'-10"	28'-1"	23'-11"	23'-11"	22'-4"	20'-5"	18'-4"			
3'-6"	26'-8"	24'-2"	22'-2"	21'-5"	20'-8"	18'-10"	17'-11"			
4'-0"	24'-11"	22'-7"	20'-9"	20'-0"	19'-4"	17'-8"	16'-9"			
4'-6"	23'-6"	21'-3"	19'-7"	18'-10"	18'-3"	16'-8"	15'-9"			
5'-0"	22'-4"	20'-2"	18'-7"	17'-11"	17'-3"	15'-8"	14'-11"			
5'-6"	21'-3"	19'-3"	17'-9"	17'-6"	16'-6"	15'-1"	14'-3"			
6'-0"	20'-5"	18'-5"	16'-11"	16'-4"	15'-9"	14'-5"	13'-8"			
6'-6"	19'-7"	17'-9"	16'-3"	15'-8"	15'-2"	13'-10"	13'-2"			
7'-0"	18'-10"	17'-1"	15'-8"	15'-2"	14'-7"	13'-4"	12'-8"			
7'-6"	18'-3"	16'-6"	15'-2"	14'-7"	14'-1"	12'-11"	12'-3"			

2" x 6" x .050 x .120
Self-priming Beam
8083 T-8 Alloy

Load Width	Wind Speed in MPH/Applied Load in PSF
3'-0"	120/10 110/11 120/13 123/14 130/15 140/16 150/20
3'-0"	12'-1" 11'-3" 10'-4" 9'-7" 8'-8" 8'-4" 8'-4"
3'-6"	11'-6" 10'-5" 9'-7" 9'-2" 8'-11" 8'-1" 7'-8"
4'-0"	10'-9" 9'-8" 8'-11" 8'-5" 8'-4" 7'-7" 7'-2"
4'-6"	10'-1" 9'-2" 8'-5" 7'-11" 7'-10" 7'-2" 6'-9"
5'-0"	9'-7" 8'-6" 7'-11" 7'-6" 7'-5" 6'-8" 6'-5"
5'-6"	9'-2" 8'-3" 7'-7" 7'-4" 7'-3" 6'-6" 6'-2"
6'-0"	8'-9" 7'-11" 7'-4" 7'-0" 6'-9" 6'-2" 5'-11"
6'-6"	8'-5" 7'-7" 7'-0" 6'-9" 6'-6" 5'-11" 5'-8"
7'-0"	8'-1" 7'-4" 6'-9" 6'-6" 6'-3" 5'-9" 5'-5"
7'-6"	7'-10" 7'-1" 6'-6" 6'-3" 6'-1" 5'-7" 5'-3"

Load	Wind Speed in MPH/Applied Load in PSI									
	100/9	110/11	120/13	123/14	130/15	140/18	150/20	160/22	170/25	180/28
3'-0"	15'-11"	14'-4"	13'-3"	12'-9"	12'-4"	11'-3"	10'-8"			
3'-6"	14'-8"	13'-4"	12'-3"	11'-9"	11'-5"	10'-5"	9'-10"			
4'-0"	13'-9"	12'-5"	11'-5"	11'-0"	10'-8"	9'-9"	9'-3"			
4'-6"	12'-11"	11'-8"	10'-9"	10'-5"	10'-1"	9'-2"	8'-8"			
5'-0"	12'-4"	11'-2"	10'-3"	9'-10"	9'-6"	8'-6"	8'-3"			
5'-6"	11'-9"	10'-7"	9'-8"	9'-5"	9'-1"	8'-4"	7'-10"			
6'-0"	11'-3"	10'-2"	9'-4"	9'-0"	8'-6"	7'-11"	7'-6"			
6'-6"	10'-9"	9'-8"	8'-11"	8'-6"	8'-4"	7'-8"	7'-3"			
7'-0"	10'-5"	8'-5"	8'-4"	8'-4"	8'-1"	7'-4"	6'-11"			
7'-6"	10'-1"	9'-1"	8'-4"	8'-1"	7'-9"	7'-1"	6'-8"			

Load Width	Wind Speed in MPH/Applied Load in PSF									
	10/9	11/10	12/13	14/14	15/15	16/16	17/17	18/18	19/20	20/20
3'-0"	19-5	16-7	16-2	15-7	15-1	13-9	13-9	13-0	13-0	
3'-8"	17-11	16-3	14-11	14-5	13-11	12-9	12-9	12-1	12-1	
4'-0"	16-10	15-3	13-5	13-3	13-0	11-11	11-11	11-3	11-3	
4'-8"	15-10	14-4	14-2	13-2	12-4	12-4	11-3	10-8	10-8	
5'-0"	15-1	13-7	12-6	12-1	11-8	10-8	10-8	10-1	10-1	
5'-6"	14-4	12-11	11-11	11-1	11-1	10-2	9-8	9-8	9-8	
6'-0"	13-9	12-5	11-5	11-1	10-8	9-8	9-3	9-3	9-3	
6'-6"	13-2	11-11	10-11	10-7	10-3	9-4	8-10	8-10	8-10	
7'-0"	12-9	11-8	10-7	10-2	9-10	8-11	8-6	8-6	8-6	
7'-8"	12-4	11-1	10-3	9-7	9-6	8-8	8-3	8-3	8-3	

STRUCTAL
BUILDING SYSTEMS

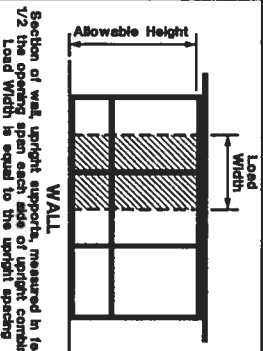
350 BURBANK ROAD
OLDSMAR, FLORIDA
34677

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Allowable Upright Heights for "Screen Rooms"
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None

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Notes

Charts show Maximum Upright Heights for Hollow Aluminum Extruded Sections used in "Enclosed" Structures.

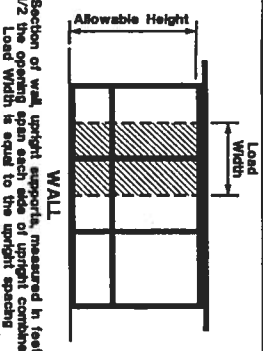
Structures classified as "Enclosed" contain solid walls & roofs w/ Glass glazed windows & doors in them, eg. Glass Rooms, Additions, Garages & Houses.

Chart indicates wind loading in miles per hour (MPH) & its equivalent load or applied load in pounds per square foot (PSF).

Spans listed are for Exposure B.

For Maximum Upright Heights for Exposure C, reduce values listed by multiplying by 0.85

Section of wall, upright supports, measured in feet. 1/2 the opening span each side of upright combined. Load Width is equal to the upright spacing	Allowable Height	Load Width	Wind Speed in MPH/Applied Load in PSF											
			100/5	110/8	120/12	123/23	130/25	140/29	150/34	160/39	170/44	180/49	190/54	200/59
2" x 2" x .044 Hollow Section 6063 T-6 Alloy		3'-0"	7-3	6-10	6-5	6-4	6-1	5-10	5-4	5-4	5-4	5-4	5-4	5-4
			3'-0"	6-11	6-6	6-1	5-11	5-9	5-4	5-4	5-4	5-4	5-4	5-4
			4'-0"	6-7	6-2	5-9	5-8	5-5	5-0	4-8	4-8	4-8	4-8	4-8
			4'-0"	6-4	5-11	5-5	5-4	5-1	4-9	4-4	4-4	4-4	4-4	4-4
			5'-0"	6-1	5-8	5-2	5-1	4-10	4-6	4-2	4-2	4-2	4-2	4-2
			5'-0"	5-11	5-5	4-11	4-10	4-7	4-3	3-11	3-9	3-9	3-9	3-9
			6'-0"	5-8	5-2	4-8	4-7	4-5	4-1	3-8	3-8	3-8	3-8	3-8
			6'-0"	5-6	5-0	4-6	4-5	4-3	3-11	3-10	3-6	3-6	3-6	3-6
			7'-0"	5-3	4-10	4-4	4-3	4-1	3-10	3-10	3-6	3-6	3-6	3-6
			7'-6"	5-1	4-8	4-3	4-1	3-11	3-8	3-8	3-6	3-6	3-6	3-6
			7'-6"	5-1	4-8	4-3	4-1	3-11	3-8	3-8	3-6	3-6	3-6	3-6
			7'-6"	5-1	4-8	4-3	4-1	3-11	3-8	3-8	3-6	3-6	3-6	3-6
2" x 2" x .045 Hollow Section 6063 T-6 Alloy		3'-0"	100/5	110/8	120/12	123/23	130/25	140/29	150/34	160/39	170/44	180/49	190/54	200/59
			3'-0"	7-3	7-3	7-3	6-11	6-7	6-3	5-11	5-11	5-11	5-11	5-11
			3'-0"	7-10	7-4	6-10	6-10	6-7	6-3	5-11	5-11	5-11	5-11	5-11
			4'-0"	7-6	7-0	6-7	6-7	6-4	5-11	5-7	5-7	5-7	5-7	5-7
			4'-0"	7-2	6-9	6-4	6-4	6-1	5-8	5-3	5-3	5-3	5-3	5-3
			5'-0"	6-11	6-6	6-1	6-1	5-10	5-5	4-11	4-11	4-11	4-11	4-11
			5'-0"	6-9	6-4	5-11	5-9	5-6	5-2	4-9	4-9	4-9	4-9	4-9
			6'-0"	6-6	6-2	5-8	5-6	5-3	4-11	4-6	4-6	4-6	4-6	4-6
			6'-0"	6-4	5-11	5-5	5-4	5-1	4-9	4-4	4-4	4-4	4-4	4-4
			7'-0"	6-2	5-10	5-3	5-1	4-11	4-7	4-2	4-2	4-2	4-2	4-2
			7'-6"	6-1	5-8	5-1	4-11	4-9	4-5	4-1	4-1	4-1	4-1	4-1
			7'-6"	6-1	5-8	5-1	4-11	4-9	4-5	4-1	4-1	4-1	4-1	4-1
2" x 3" x .045 Hollow Section 6063 T-6 Alloy		3'-0"	100/5	110/8	120/12	123/23	130/25	140/29	150/34	160/39	170/44	180/49	190/54	200/59
			3'-0"	8-3	8-3	8-1	8-0	7-9	7-5	7-0	6-8	6-8	6-8	6-8
			3'-0"	8-9	8-3	7-9	7-7	7-5	7-0	6-8	6-8	6-8	6-8	6-8
			4'-0"	8-5	7-11	7-5	7-3	7-1	6-9	6-5	6-5	6-5	6-5	6-5
			4'-0"	8-1	7-7	7-1	6-11	6-1	6-6	6-2	6-2	6-2	6-2	6-2
			5'-0"	7-9	7-4	6-10	6-9	6-7	6-3	5-11	5-11	5-11	5-11	5-11
			5'-0"	7-6	7-1	6-11	6-8	6-4	6-1	5-8	5-8	5-8	5-8	5-8
			6'-0"	7-4	6-11	6-5	6-4	6-2	5-10	5-5	5-5	5-5	5-5	5-5
			6'-0"	7-2	6-9	6-3	6-2	6-0	5-7	5-2	5-2	5-2	5-2	5-2
			7'-0"	6-11	6-7	6-1	6-0	5-10	5-5	5-0	5-0	5-0	5-0	5-0
			7'-6"	6-1	6-7	6-1	6-0	5-10	5-5	5-0	5-0	5-0	5-0	5-0
			7'-6"	6-1	6-7	6-1	6-0	5-10	5-5	5-0	5-0	5-0	5-0	5-0
2" x 3" x .045 Hollow Section 6063 T-6 Alloy		3'-0"	100/5	110/8	120/12	123/23	130/25	140/29	150/34	160/39	170/44	180/49	190/54	200/59
			3'-0"	10-2	9-7	8-11	8-10	8-5	7-10	7-3	6-8	6-8	6-8	6-8
			3'-0"	10-2	9-7	8-11	8-10	8-5	7-10	7-3	6-8	6-8	6-8	6-8
			4'-0"	9-3	8-8	7-10	7-9	7-4	6-9	6-3	6-3	6-3	6-3	6-3
			4'-0"	8-11	8-4	7-4	7-2	6-11	6-5	5-11	5-11	5-11	5-11	5-11
			5'-0"	8-5	8-1	6-11	6-10	6-6	6-1	5-7	5-7	5-7	5-7	5-7
			5'-0"	8-1	7-10	6-8	6-8	6-3	5-9	5-4	5-4	5-4	5-4	5-4
			6'-0"	7-8	7-5	6-4	6-3	5-11	5-6	5-1	5-1	5-1	5-1	5-1
			6'-0"	7-5	7-5	6-1	6-1	5-11	5-6	5-1	5-1	5-1	5-1	5-1
			7'-0"	7-2	7-2	5-11	5-11	5-9	5-4	4-11	4-11	4-11	4-11	4-11
			7'-6"	7-2	7-2	5-11	5-11	5-9	5-4	4-11	4-11	4-11	4-11	4-11
			7'-6"	7-2	7-2	5-11	5-11	5-9	5-4	4-11	4-11	4-11	4-11	4-11
2" x 4" x .045 Hollow Section 6063 T-6 Alloy		3'-0"	100/5	110/8	120/12	123/23	130/25	140/29	150/34	160/39	170/44	180/49	190/54	200/59
			3'-0"	10-2	9-7	8-11	8-10	8-5	7-10	7-3	6-8	6-8	6-8	6-8
			3'-0"	10-2	9-7	8-11	8-10	8-5	7-10	7-3	6-8	6-8	6-8	6-8
			4'-0"	9-3	8-8	7-10	7-9	7-4	6-9	6-3	6-3	6-3	6-3	6-3
			4'-0"	8-11	8-4	7-4	7-2	6-11	6-5	5-11	5-11	5-11	5-11	5-11
			5'-0"	8-5	8-1	6-11	6-10	6-6	6-1	5-7	5-7	5-7	5-7	5-7
			5'-0"	8-1	7-10	6-8	6-8	6-3	5-9	5-4	5-4	5-4	5-4	5-4
			6'-0"	7-8	7-5	6-4	6-3	5-11	5-6	5-1	5-1	5-1	5-1	5-1
			6'-0"	7-5	7-5	6-1	6-1	5-11	5-6	5-1	5-1	5-1	5-1	5-1
			7'-0"	7-2	7-2	5-11	5-11	5-9	5-4	4-11	4-11	4-11	4-11	4-11
			7'-6"	7-2	7-2	5-11	5-11	5-9	5-4	4-11	4-11	4-11	4-11	4-11
			7'-6"	7-2	7-2	5-11	5-11	5-9	5-4	4-11	4-11	4-11	4-11	4-11
2" x 4" x .045 Hollow Section 6063 T-6 Alloy		3'-0"	100/5	110/8	120/12	123/23	130/25	140/29	150/34	160/39	170/44	180/49	190/54	200/59
			3'-0"	10-2	9-7	8-11	8-10	8-5	7-10	7-3	6-8	6-8	6-8	6-8
			3'-0"	10-2	9-7	8-11	8-10	8-5	7-10	7-3	6-8	6-8	6-8	6-8
			4'-0"	9-3	8-8	7-10	7-9	7-4	6-9	6-3	6-3	6-3	6-3	6-3
			4'-0"	8-11	8-4	7-4	7-2	6-11	6-5	5-11	5-11	5-11	5-11	5-11
			5'-0"	8-5	8-1	6-11	6-10	6-6	6-1	5-7	5-7	5-7	5-7	5-7
			5'-0"	8-1	7-10	6-8	6-8	6-3	5-9	5-4	5-4	5-4	5-4	5-4
			6'-0"	7-8	7-5	6-4	6-3	5-11	5-6	5-1	5-1	5-1	5-1	5-1
			6'-0"	7-5	7-5	6-1	6-1	5-11	5-6	5-1	5-1	5-1	5-1	5-1
			7'-0"	7-2	7-2	5-11	5-11	5-9	5-4	4-11	4-11	4-11	4-11	4-11
			7'-6"	7-2	7-2	5-11	5-11	5-9	5-4	4-11	4-11	4-11	4-11	4-11
			7'-6"	7-2	7-2	5-11	5-11	5-9	5-4	4-11	4-11	4-11	4-11	4-11



Notes

Charts show Maximum Upright Heights for Hollow Aluminum Extruded Sections used in "Enclosed" Structures.

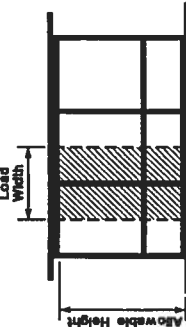
Structures classified as "Enclosed" contain solid walls & roofs w/ Glass glazed windows & doors in them, eg. Glass Rooms, Additions, Garages & Houses.

Chart indicates wind loading in miles per hour (MPH) & its equivalent load or applied load in pounds per square foot (PSF).

Spans listed are for Exposure B.

For Maximum Upright Heights for Exposure C, reduce values listed by multiplying by 0.85

	2" x 4" x .045 Solid Section 6063 T-6 Alloy	Load	Wind Speed in MPH/Applied Load in PSF					
	Width	100/5	110/8	120/12	123/23	130/25	140/29	150/34
	3'-0"	21-4	20-1	18-10	18-6	18-0	16-10	15-6
	3'-6"	20-4	19-1	17-10	17-6	16-8	15-7	14-4
	4'-0"	19-5	18-3	16-8	16-4	15-8	14-7	13-5
	4'-6"	18-8	17-7	15-9	15-5	14-9	13-8	12-8
	5'-0"	18-0	16-11	14-11	14-7	14-0	13-0	12-0
	5'-6"	17-3	16-5	14-3	13-1	13-4	12-5	11-6
	6'-0"	16-6	15-11	13-8	13-4	12-10	11-11	10-11
	6'-6"	15-10	15-6	13-1	12-10	12-4	11-5	10-7
	2" x 2" x .045 Solid Section 6063 T-6 Alloy	Load	Wind Speed in MPH/Applied Load in PSF					
	Width	100/5	110/8	120/12	123/23	130/25	140/29	150/34
	3'-0"	8-2	7-8	7-2	7-1	6-11	6-7	6-3
	3'-6"	7-9	7-4	6-10	6-9	6-7	6-3	5-11
	4'-0"	7-5	6-11	6-6	6-5	6-3	5-11	5-6
	4'-6"	7-2	6-8	6-3	6-2	6-0	5-8	5-2
	5'-0"	6-11	6-6	6-1	5-11	5-9	5-4	4-11
	5'-6"	6-8	6-3	5-10	5-9	5-6	5-1	4-9
	6'-0"	6-6	6-1	5-7	5-6	5-3	4-11	4-6
	6'-6"	6-4	5-11	5-5	5-3	5-1	4-8	4-4
	2" x 3" x .045 Solid Section 6063 T-6 Alloy	Load	Wind Speed in MPH/Applied Load in PSF					
	Width	100/5	110/8	120/12	123/23	130/25	140/29	150/34
	3'-0"	11-0	10-4	9-8	9-7	9-4	8-10	8-2
	3'-6"	10-6	9-10	8-3	8-1	8-10	8-2	7-7
	4'-0"	10-0	9-5	8-10	8-7	8-3	7-8	7-1
	4'-6"	9-8	9-1	8-4	8-1	7-9	7-3	6-8
	5'-0"	9-4	8-9	7-10	7-8	7-5	6-10	6-4
	5'-6"	9-0	8-6	7-8	7-4	7-0	6-6	6-0
	6'-0"	8-8	8-3	7-2	7-0	6-9	6-3	5-9
	6'-6"	8-4	8-0	6-11	6-9	6-6	6-0	5-7
	2" x 4" x .045 Solid Section 6063 T-6 Alloy	Load	Wind Speed in MPH/Applied Load in PSF					
	Width	100/5	110/8	120/12	123/23	130/25	140/29	150/34
	3'-0"	13-11	13-1	12-3	12-1	11-8	10-10	10-0
	3'-6"	13-2	12-5	11-6	11-3	10-10	10-0	9-3
	4'-0"	10-8	11-11	10-9	10-6	10-1	9-5	8-8
	4'-6"	10-2	11-5	10-2	9-11	9-6	8-10	8-2
	5'-0"	11-8	11-0	9-8	9-5	9-0	8-5	7-9
	5'-6"	11-1	10-8	9-2	8-11	8-7	7-11	7-5
	6'-0"	10-8	10-5	8-8	8-7	8-3	7-1	7-1
	6'-6"	10-3	10-1	8-5	8-3	7-11	7-4	6-10
	2" x 6" x .045 Solid Section 6063 T-6 Alloy	Load	Wind Speed in MPH/Applied Load in PSF					
	Width	100/5	110/8	120/12	123/23	130/25	140/29	150/34
	7'-0"	9-10	9-10	8-2	7-11	7-8	7-1	6-7
	7'-6"	9-6	9-6	7-10	7-8	7-5	6-10	6-4



WALL
Section of wall upright supports, measured in feet,
1/2 the opening span each side of upright combined.
Load Width is equal to the upright spacing.

Load	Wind Speed in MPH/Applied Load in PSF
Width	100/21 110/25 120/30 130/35 140/40 150/46
3'-0"	6'-6" 6'-1" 5'-8" 5'-3" 4'-11" 4'-7"
3'-6"	6'-2" 5'-9" 5'-5" 4'-11" 4'-7" 4'-3"
4'-0"	5'-11" 5'-5" 4'-11" 4'-9" 4'-7" 4'-3" 3'-11"
4'-6"	5'-7" 5'-1" 4'-8" 4'-6" 4'-4" 4'-0" 3'-9"
5'-0"	5'-3" 4'-10" 4'-5" 4'-3" 4'-1" 3'-10" 3'-7"
5'-6"	5'-0" 4'-7" 4'-3" 4'-1" 3'-11" 3'-8" 3'-5"
6'-0"	4'-10" 4'-5" 4'-0" 3'-11" 3'-9" 3'-6" 3'-3"
6'-6"	4'-8" 4'-3" 3'-10" 3'-8" 3'-7" 3'-4" 3'-2"
7'-0"	4'-6" 4'-1" 3'-9" 3'-7" 3'-5" 3'-3" 3'-0"
7'-6"	4'-4" 3'-11" 3'-7" 3'-6" 3'-4" 3'-1" 2'-11"

2" x 2" x .044 Hollow Section 6063 T-6 Alloy	Load	Wind Speed in MPH/Applied Load in PSF
	Width	100/21 110/25 120/30 130/35 140/40 150/46
	3'-0"	6'-10" 6'-5" 6'-1" 5'-11" 5'-9" 5'-5" 5'-0"
	3'-6"	6'-6" 6'-2" 5'-9" 5'-7" 5'-4" 4'-11" 4'-8"
	4'-0"	6'-3" 5'-11" 5'-5" 5'-3" 4'-11" 4'-8" 4'-4"
	4'-6"	6'-0" 5'-7" 5'-1" 4'-11" 4'-8" 4'-5" 4'-1"
	5'-0"	5'-6" 5'-3" 4'-10" 4'-8" 4'-6" 4'-2" 3'-11"
	5'-6"	5'-2" 5'-0" 4'-7" 4'-5" 4'-3" 3'-11" 3'-8"
	6'-0"	5'-3" 4'-10" 4'-5" 4'-3" 4'-1" 3'-11" 3'-8"
	6'-6"	5'-1" 4'-8" 4'-3" 4'-1" 3'-11" 3'-8" 3'-5"
	7'-0"	4'-10" 4'-6" 4'-1" 3'-11" 3'-9" 3'-6" 3'-3"
	7'-6"	4'-8" 4'-4" 3'-11" 3'-10" 3'-8" 3'-5" 3'-2"

2" x 2" x .055 Hollow Section 6063 T-6 Alloy	Load	Wind Speed in MPH/Applied Load in PSF
	Width	100/21 110/25 120/30 130/35 140/40 150/46
	3'-0"	7'-4" 6'-11" 6'-6" 6'-2" 5'-11" 5'-8" 5'-4"
	3'-6"	6'-11" 6'-7" 6'-2" 5'-11" 5'-8" 5'-4" 5'-0"
	4'-0"	6'-8" 6'-4" 5'-11" 5'-8" 5'-6" 5'-1" 4'-9"
	4'-6"	6'-5" 6'-1" 5'-7" 5'-5" 5'-2" 4'-10" 4'-6"
	5'-0"	6'-2" 5'-10" 5'-3" 5'-1" 4'-11" 4'-7" 4'-3"
	5'-6"	5'-11" 5'-6" 5'-1" 4'-11" 4'-8" 4'-4" 4'-1"
	6'-0"	5'-9" 5'-3" 4'-10" 4'-8" 4'-6" 4'-2" 3'-11"
	6'-6"	5'-7" 5'-1" 4'-8" 4'-6" 4'-4" 4'-0" 3'-9"
	7'-0"	5'-4" 4'-11" 4'-8" 4'-4" 4'-2" 3'-10" 3'-7"
	7'-6"	5'-2" 4'-9" 4'-4" 4'-2" 4'-0" 3'-9" 3'-6"

3" x 2" x .045 Hollow Section 6063 T-6 Alloy	Load	Wind Speed in MPH/Applied Load in PSF
	Width	100/21 110/25 120/30 130/35 140/40 150/46
	3'-0"	8'-3" 7'-9" 7'-4" 7'-2" 6'-11" 6'-8" 6'-4"
	3'-6"	7'-10" 7'-5" 6'-11" 6'-10" 6'-7" 6'-4" 6'-0"
	4'-0"	7'-6" 7'-1" 6'-8" 6'-6" 6'-4" 6'-1" 5'-8"
	4'-6"	7'-2" 6'-10" 6'-5" 6'-3" 6'-1" 5'-9" 5'-4"
	5'-0"	6'-11" 6'-7" 6'-2" 6'-1" 5'-10" 5'-6" 5'-1"
	5'-6"	6'-9" 6'-4" 5'-11" 5'-10" 5'-7" 5'-2" 4'-10"
	6'-0"	6'-7" 6'-2" 5'-9" 5'-7" 5'-4" 4'-11" 4'-8"
	6'-6"	6'-5" 6'-0" 5'-6" 5'-4" 5'-1" 4'-9" 4'-6"
	7'-0"	6'-3" 5'-10" 5'-4" 5'-2" 4'-11" 4'-7" 4'-4"
	7'-6"	6'-1" 5'-8" 5'-2" 4'-11" 4'-9" 4'-5" 4'-2"

2" x 3" x .045 Hollow Section 6063 T-6 Alloy	Load	Wind Speed in MPH/Applied Load in PSF
	Width	100/21 110/25 120/30 130/35 140/40 150/46
	3'-0"	9'-1" 8'-5" 7'-8" 7'-5" 7'-2" 6'-8" 6'-3"
	3'-6"	8'-6" 7'-10" 7'-2" 6'-11" 6'-7" 6'-2" 5'-9"
	4'-0"	8'-1" 7'-4" 6'-8" 6'-5" 6'-2" 5'-9" 5'-5"
	4'-6"	7'-8" 6'-11" 6'-3" 6'-1" 5'-10" 5'-5" 5'-1"
	5'-0"	7'-2" 6'-6" 5'-11" 5'-9" 5'-6" 5'-2" 4'-10"
	5'-6"	6'-10" 6'-3" 5'-8" 5'-6" 5'-3" 4'-11" 4'-7"
	6'-0"	6'-8" 5'-11" 5'-5" 5'-3" 5'-0" 4'-9" 4'-5"
	6'-6"	6'-3" 5'-9" 5'-3" 5'-1" 4'-10" 4'-6" 4'-3"
	7'-0"	6'-0" 5'-6" 5'-0" 4'-11" 4'-8" 4'-4" 4'-1"
	7'-6"	5'-10" 5'-4" 4'-10" 4'-9" 4'-6" 4'-3" 3'-11"

Notes

Charts show Maximum Upright Heights for Hollow Aluminum Extruded Sections used in "Partially Enclosed" Structures.

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Chart indicates wind loading in miles per hour (MPH) & its equivalent load or applied load in pounds per square foot (PSF). Spans listed are for Exposure B.

For Maximum Upright Heights for Exposure C, reduce values listed by multiplying by 0.85

Load	Wind Speed in MPH/Applied Load in PSF
Width	100/21 110/25 120/30 130/35 140/40 150/46
3'-0"	11'-9" 10'-9" 9'-11" 9'-6" 8'-5" 7'-11" 7'-4"
3'-6"	10'-11" 9'-11" 8'-1" 8'-10" 8'-5" 7'-11" 7'-4"
4'-0"	10'-2" 9'-4" 8'-6" 8'-3" 7'-11" 7'-5" 6'-11"
4'-6"	9'-7" 8'-10" 8'-0" 7'-9" 7'-5" 6'-11" 6'-6"
5'-0"	9'-1" 8'-4" 7'-7" 7'-5" 7'-1" 6'-7" 6'-2"
5'-6"	8'-8" 7'-11" 7'-3" 7'-0" 6'-9" 6'-4" 5'-10"
6'-0"	8'-4" 7'-7" 6'-11" 6'-8" 6'-5" 6'-0" 5'-7"
6'-6"	7'-11" 7'-4" 6'-8" 6'-6" 6'-2" 5'-9" 5'-5"
7'-0"	7'-8" 7'-1" 6'-5" 6'-3" 5'-11" 5'-7" 5'-2"
7'-6"	7'-5" 6'-10" 6'-3" 6'-0" 5'-9" 5'-5" 5'-0"

2" x 4" x .050 Hollow Section 6063 T-6 Alloy	Load	Wind Speed in MPH/Applied Load in PSF
	Width	100/21 110/25 120/30 130/35 140/40 150/46
	3'-0"	11'-4" 10'-8" 10'-0" 9'-10" 8'-6" 8'-0" 8'-5"
	3'-6"	10'-9" 10'-2" 9'-6" 8'-4" 8'-11" 8'-4" 7'-9"
	4'-0"	10'-3" 9'-8" 9'-0" 8'-8" 8'-4" 7'-10" 7'-3"
	4'-6"	9'-10" 9'-4" 8'-6" 8'-3" 7'-10" 7'-4" 6'-10"
	5'-0"	9'-6" 8'-10" 8'-1" 7'-10" 7'-6" 6'-11" 6'-6"
	5'-6"	9'-2" 8'-5" 7'-8" 7'-5" 7'-1" 6'-8" 6'-3"
	6'-0"	8'-10" 7'-9" 7'-1" 7'-2" 6'-10" 6'-5" 5'-9"
	6'-6"	8'-5" 7'-9" 7'-1" 6'-10" 6'-7" 6'-2" 5'-8"
	7'-0"	8'-2" 7'-6" 6'-10" 6'-7" 6'-4" 5'-11" 5'-6"
	7'-6"	7'-10" 7'-3" 6'-7" 6'-5" 6'-1" 5'-8" 5'-4"

2" x 3" x .025 Square Post 6063 T-6 Alloy	Load	Wind Speed in MPH/Applied Load in PSF
	Width	100/9 110/11 120/13 130/15 140/18 150/20
	3'-0"	15'-10" 14'-11" 13'-9" 13'-4" 12'-9" 11'-10" 11'-0"
	3'-6"	15'-0" 14'-0" 12'-8" 12'-4" 11'-9" 10'-11" 10'-2"
	4'-0"	14'-7" 13'-1" 11'-5" 11'-0" 10'-5" 10'-3" 9'-5"
	4'-6"	13'-5" 12'-3" 11'-2" 10'-8" 10'-4" 9'-7" 8'-11"
	5'-0"	12'-9" 11'-7" 10'-7" 10'-3" 9'-9" 9'-1" 8'-5"
	5'-6"	12'-1" 11'-1" 10'-1" 9'-8" 9'-3" 8'-8" 8'-0"
	6'-0"	11'-7" 10'-7" 9'-7" 9'-2" 8'-10" 8'-3" 7'-8"
	6'-6"	11'-1" 10'-2" 9'-2" 8'-11" 8'-5" 7'-11" 7'-4"
	7'-0"	10'-8" 9'-8" 8'-10" 8'-7" 8'-2" 7'-7" 7'-1"
	7'-6"	10'-4" 9'-5" 8'-6" 8'-3" 7'-10" 7'-4" 6'-10"

2" x 3" x .050 x 100 Modular Section 3" x 3" x .025 Sq. Post Insert 6063 T-6 Alloy	Load	Wind Speed in MPH/Applied Load in PSF
	Width	100/9 110/11 120/13 130/15 140/18 150/20
	3'-0"	16'-3" 15'-4" 14'-2" 13'-8" 13'-2" 12'-3" 11'-5"
	3'-6"	15'-5" 14'-5" 13'-2" 12'-8" 12'-2" 11'-4" 10'-7"
	4'-0"	14'-8" 13'-8" 12'-3" 11'-10" 11'-4" 10'-9" 10'-10"
	4'-6"	13'-10" 12'-8" 11'-7" 11'-2" 10'-8" 10'-0" 9'-4"
	5'-0"	13'-2" 12'-0" 11'-0" 10'-8" 10'-2" 9'-6" 8'-10"
	5'-6"	12'-8" 11'-8" 10'-6" 10'-4" 9'-10" 9'-1" 8'-5"
	6'-0"	12'-0" 11'-0" 10'-0" 9'-8" 8'-3" 8'-8" 8'-1"
	6'-6"	11'-6" 10'-7" 9'-7" 9'-4" 8'-10" 8'-4" 7'-9"
	7'-0"	11'-1" 10'-2" 9'-3" 9'-0" 8'-7" 8'-0" 7'-6"
	7'-6"	10'-9" 9'-10" 8'-11" 8'-8" 8'-3" 7'-9" 7'-3"

2" x 5" x .050 x 100 Self-Inserting Beam 6063 T-6 Alloy	Load	Wind Speed in MPH/Applied Load in PSF
	Width	100/21 110/25 120/30 130/35 140/40 150/46
	3'-0"	16'-4" 15'-5" 14'-3" 13'-10" 12'-3" 12'-4" 11'-6"
	3'-6"	15'-8" 14'-6" 13'-3" 12'-10" 12'-3" 11'-5" 10'-8"
	4'-0"	14'-9" 13'-7" 12'-4" 11'-11" 11'-5" 10'-9" 9'-11"
	4'-6"	13'-11" 12'-9" 11'-8" 11'-3" 11'-0" 10'-1" 9'-5"
	5'-0"	13'-3" 12'-1" 11'-1" 10'-8" 10'-3" 9'-7" 8'-11"
	5'-6"	12'-7" 11'-7" 10'-7" 10'-3" 9'-9" 9'-2" 8'-6"
	6'-0"	12'-1" 11'-1" 10'-1" 9'-8" 9'-4" 8'-9" 8'-2"
	6'-6"	11'-7" 10'-8" 9'-8" 9'-5" 8'-11" 8'-5" 7'-10"
	7'-0"	11'-2" 10'-3" 9'-4" 9'-1" 8'-6" 8'-1" 7'-7"
	7'-6"	10'-10" 9'-11" 9'-0" 8'-9" 8'-4" 7'-10" 7'-4"

Notes

Charts show Maximum Upright Heights for Hollow Aluminum Extruded Sections used in "Partially Enclosed" Structures.

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Chart indicates wind loading in miles per hour (MPH) & its equivalent load or applied load in pounds per square foot (PSF). Spans listed are for Exposure B.

For Maximum Upright Heights for Exposure C, reduce values listed by multiplying by 0.85

Load	Wind Speed in MPH/Applied Load in PSF
Width	100/21 110/25 120/30 130/35 140/40 150/46
3'-0"	11'-9" 10'-9" 9'-11" 9'-6" 8'-5" 7'-11" 7'-4"
3'-6"	10'-11" 9'-11" 8'-1" 8'-10" 8'-5" 7'-11" 7'-4"
4'-0"	10'-2" 9'-4" 8'-6" 8'-3" 7'-11" 7'-5" 6'-11"
4'-6"	9'-7" 8'-10" 8'-0" 7'-9" 7'-5" 6'-11" 6'-6"
5'-0"	9'-1" 8'-4" 7'-7" 7'-5" 7'-1" 6'-7" 6'-2"
5'-6"	8'-8" 7'-11" 7'-3" 7'-0" 6'-9" 6'-4" 5'-10"
6'-0"	8'-4" 7'-7" 6'-11" 6'-8" 6'-5" 6'-0" 5'-7"
6'-6"	7'-11" 7'-4" 6'-8" 6'-6" 6'-2" 5'-9" 5'-5"
7'-0"	7'-8" 7'-1" 6'-5" 6'-3" 5'-11" 5'-7" 5'-2"
7'-6"	7'-5" 6'-10" 6'-3" 6'-0" 5'-9" 5'-5" 5'-0"

2" x 4" x .050 Hollow Section 6063 T-6 Alloy	Load	Wind Speed in MPH/Applied Load in PSF
	Width	100/21 110/25 120/30 130/35 140/40 150/46
	3'-0"	11'-4" 10'-8" 10'-0" 9'-10" 8'-6" 8'-0" 8'-5"
	3'-6"	10'-9" 10'-2" 9'-6" 8'-4" 8'-11" 8'-4" 7'-9"
	4'-0"	10'-3" 9'-8" 9'-0" 8'-8" 8'-4" 7'-10" 7'-3"
	4'-6"	9'-10" 9'-4" 8'-6" 8'-3" 7'-10" 7'-4" 6'-10"
	5'-0"	9'-6" 8'-10" 8'-1" 7'-10" 7'-6" 6'-11" 6'-6"
	5'-6"	9'-2" 8'-5" 7'-8" 7'-5" 7'-1" 6'-8" 6'-3"
	6'-0"	8'-10" 7'-9" 7'-1" 7'-2" 6'-10" 6'-5" 5'-9"
	6'-6"	8'-5" 7'-9" 7'-1" 6'-10" 6'-7" 6'-2" 5'-8"
	7'-0"	8'-2" 7'-6" 6'-10" 6'-7" 6'-4" 5'-11" 5'-6"
	7'-6"	7'-10" 7'-3" 6'-7" 6'-5" 6'-1" 5'-8" 5'-4"

2" x 3" x .025 Square Post 6063 T-6 Alloy	Load	Wind Speed in MPH/Applied Load in PSF
	Width	100/9 110/11 120/13 130/15 140/18 150/20
	3'-0"	15'-10" 14'-11" 13'-9" 13'-4" 12'-9" 11'-10" 11'-0"
	3'-6"	15'-0" 14'-0" 12'-8" 12'-4" 11'-9" 10'-11" 10'-2"
	4'-0"	14'-7" 13'-1" 11'-5" 11'-0" 10'-5" 10'-3" 9'-5"
	4'-6"	13'-5" 12'-3" 11'-2" 10'-8" 10'-4" 9'-7" 8'-11"
	5'-0"	12'-9" 11'-7" 10'-7" 10'-3" 9'-9" 9'-1" 8'-5"
	5'-6"	12'-1" 11'-1" 10'-1" 9'-8" 9'-3" 8'-8" 8'-0"
	6'-0"	11'-7" 10'-7" 9'-7" 9'-2" 8'-10" 8'-3" 7'-8"
	6'-6"	11'-1" 10'-2" 9'-2" 8'-11" 8'-5" 7'-11" 7'-4"
	7'-0"	10'-8" 9'-8" 8'-10" 8'-7" 8'-2" 7'-7" 7'-1"
	7'-6"	10'-4" 9'-5" 8'-6" 8'-3" 7'-10" 7'-4" 6'-10"

2" x 3" x .050 x 100 Modular Section 3" x 3" x .025 Sq. Post Insert 6063 T-6 Alloy	Load	Wind Speed in MPH/Applied Load in PSF
	Width	100/9 110/11 120/13 130/15 140/18 150/20
	3'-0"	16'-3" 15'-4" 14'-2" 13'-8" 13'-2" 12'-3" 11'-5"
	3'-6"	15'-5" 14'-5" 13'-2" 12'-8" 12'-2" 11'-4" 10'-7"
	4'-0"	14'-8" 13'-8" 12'-3" 11'-10" 11'-4" 10'-9" 10'-10"
	4'-6"	13'-10" 12'-8" 11'-7" 11'-2" 10'-8" 10'-0" 9'-4"
	5'-0"	13'-2" 12'-0" 11'-0" 10'-8" 10'-2" 9'-6" 8'-10"
	5'-6"	12'-8" 11'-8" 10'-6" 10'-4" 9'-10" 9'-1" 8'-5"
	6'-0"	12'-0" 11'-0" 10'-0" 9'-8" 8'-3" 8'-8" 8'-1"
	6'-6"	11'-6" 10'-7" 9'-7" 9'-4" 8'-10" 8'-4" 7'-9"
	7'-0"	11'-1" 10'-2" 9'-3" 9'-0" 8'-7" 8'-0" 7'-6"
	7'-6"	10'-9" 9'-10" 8'-11" 8'-8" 8'-3" 7'-9" 7'-3"

2" x 5" x .050 x 100 Self-Inserting Beam 6063 T-6 Alloy	Load	Wind Speed in MPH/Applied Load in PSF
	Width	100/21 110/25 120/30 130/35 140/40 150/46
	3'-0"	16'-4" 15'-5" 14'-3" 13'-10" 12'-3" 12'-4" 11'-6"
	3'-6"	15'-8" 14'-6" 13'-3" 12'-10" 12'-3" 11'-5" 10'-8"
	4'-0"	14'-9" 13'-7" 12'-4" 11'-11" 11'-5" 10'-9" 9'-11"
	4'-6"	13'-11" 12'-9" 11'-8" 11'-3" 11'-0" 10'-1" 9'-5"
	5'-0"	13'-3" 12'-1" 11'-1" 10'-8" 10'-3" 9'-7" 8'-11"
	5'-6"	12'-7" 11'-7" 10'-7" 10'-3" 9'-9" 9'-2" 8'-6"
	6'-0"	12'-1" 11'-1" 10'-1" 9'-8" 9'-4" 8'-9" 8'-2"
	6'-6"	11'-7" 10'-8" 9'-8" 9'-5" 8'-11" 8'-5" 7'-10"
	7'-0"	11'-2" 10'-3" 9'-4" 9'-1" 8'-6" 8'-1" 7'-7"
	7'-6"	10'-10" 9'-11" 9'-0" 8'-9" 8'-4" 7'-10" 7'-4"

Notes

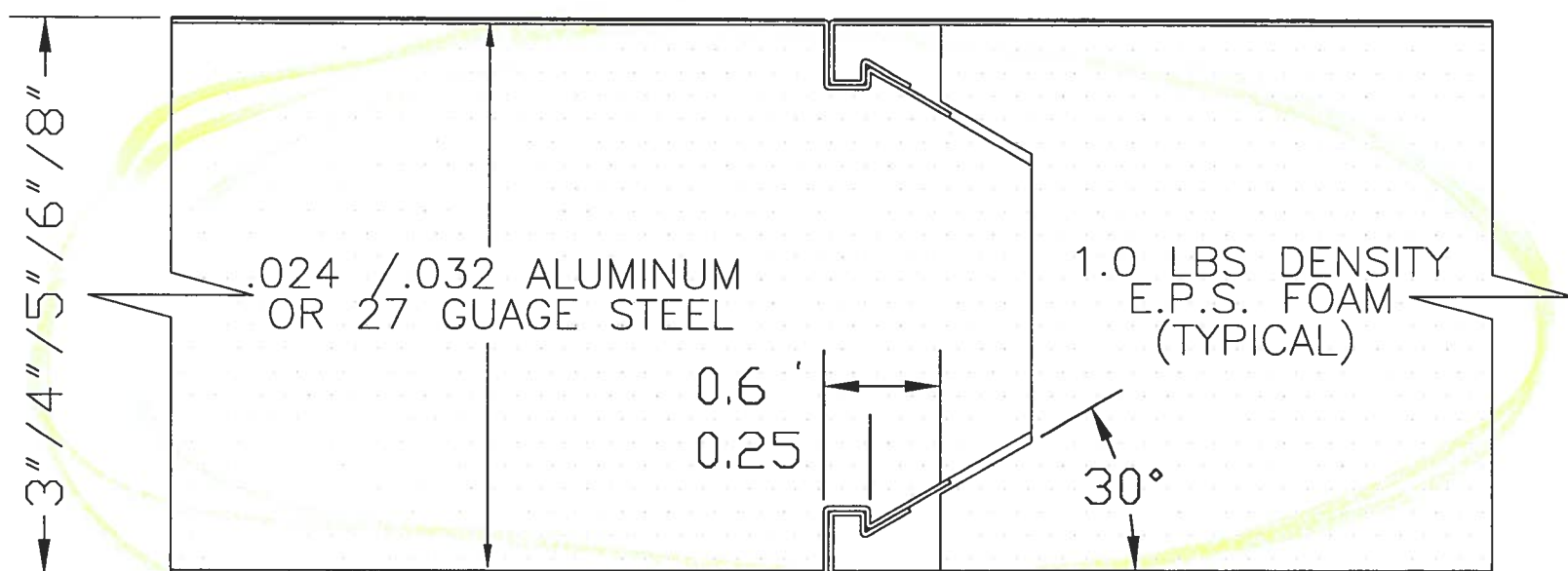
Charts show Maximum Upright Heights for Hollow Aluminum Extruded Sections used in "Partially Enclosed" Structures.

Structures classified as "Partially Enclosed" contain solid walls & roofs w/ Glass glazed windows & doors in them, eg. Glass Rooms, Additions, Garages & Houses. Or solid roofs with at least one solid roof with at least one solid wall usually the host structure. This chart is used as an alternative to installing impact glass or shutters in wind borne debris areas and accounts for added internal building pressures.

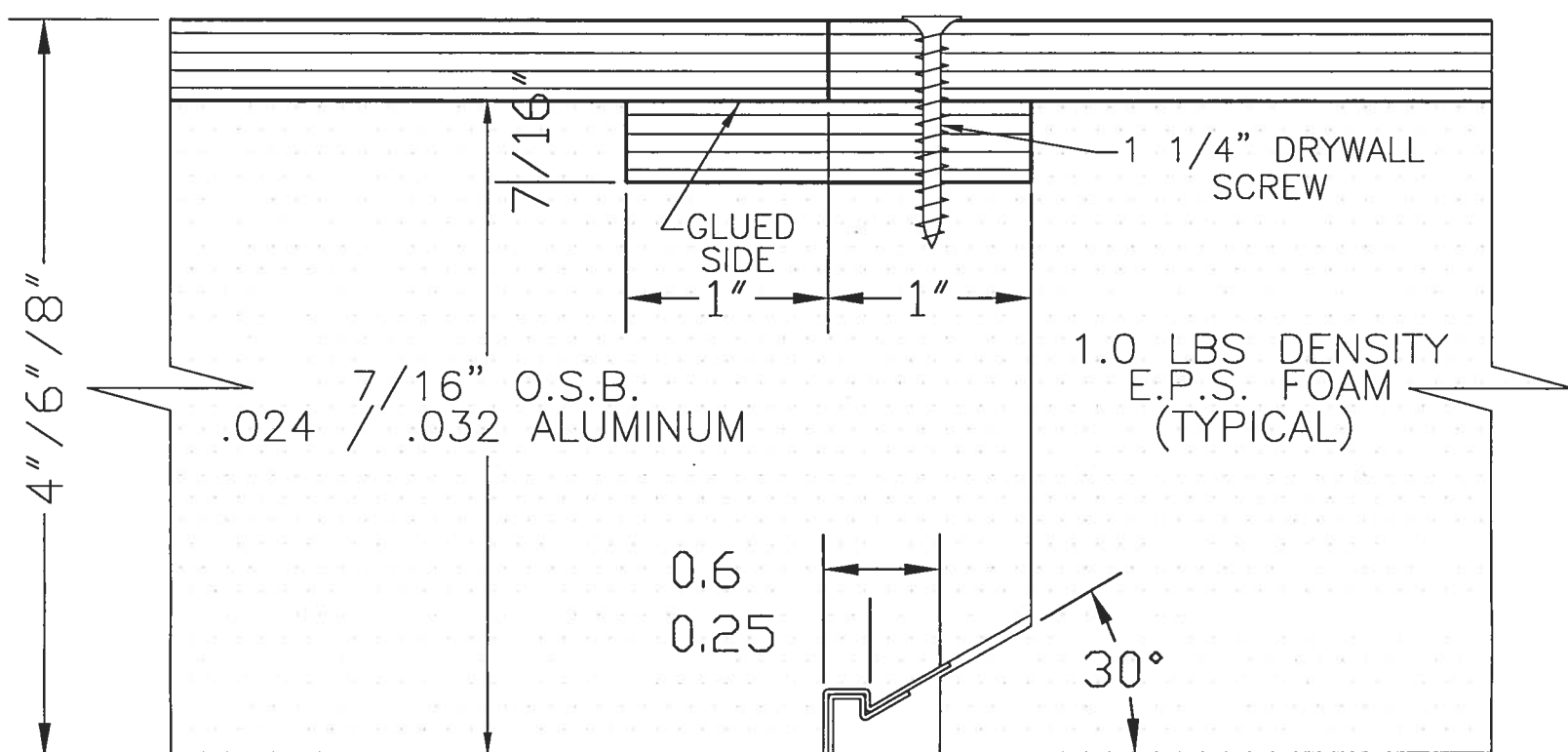
Chart indicates wind loading in miles per hour (MPH) & its equivalent load or applied load in pounds per square foot (PSF). Spans listed are for Exposure B.

For Maximum Upright Heights for Exposure C, reduce values listed by multiplying by 0.85

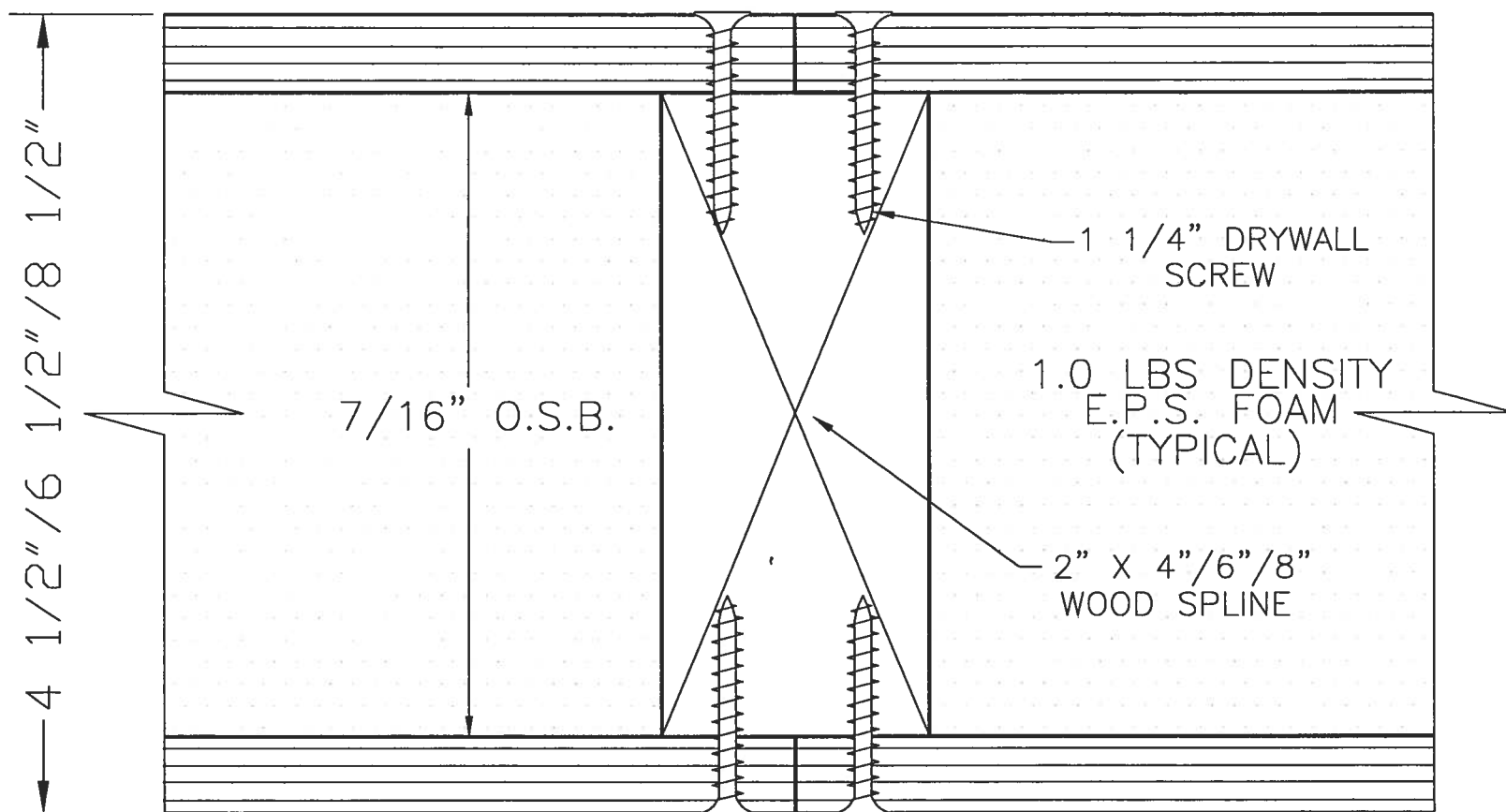
Load	Wind Speed in MPH/Applied Load in PSF
Width	100/21 110/25 120/30 130/35 140/40 150/46
3'-0"	11'-9" 10'-9" 9'-11" 9'-6" 8'-5" 7'-1



SNAP-N-LOCK COMPOSITE PANEL



HALF-SNAP COMPOSITE PANEL



O.S.B. COMPOSITE PANEL

Lawrence E. Bennett, P.E.
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
PO BOX 4368
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PD1

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Project No. 1011Eng
Date 01-01-03
Drawn SFB
Reviewed

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JAN 9 2005
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Panel Thk.	Wind Speed - 100 m.p.h.								Wind Speed - 110 m.p.h.							
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
2"	G .024	14'-11"	15'-1"	15'-6"	16'-2"	-	13'-9"	13'-11"	14'-4"	-	-	13'-9"	13'-11"	14'-4"	-	-
	U .032	19'-8"	19'-9"	20'-1"	20'-7"	-	18'-1"	18'-3"	18'-6"	-	-	18'-1"	18'-3"	18'-6"	-	-
	26ga.	20'-6"	20'-7"	20'-10"	21'-4"	-	18'-10"	18'-11"	19'-3"	-	-	18'-10"	18'-11"	19'-3"	-	-
3"	G .024	20'-4"	20'-5"	20'-8"	21'-2"	21'-10"	18'-8"	18'-10"	19'-1"	19'-7"	20'-4"	18'-8"	18'-10"	19'-1"	19'-7"	20'-4"
	U .032	23'-10"	23'-11"	24'-2"	24'-7"	25'-2"	21'-11"	22'-0"	22'-3"	22'-8"	23'-4"	21'-11"	22'-0"	22'-3"	22'-8"	23'-4"
	26ga.	23'-11"	23'-11"	24'-3"	24'-8"	25'-2"	21'-11"	22'-1"	22'-4"	22'-9"	23'-5"	21'-11"	22'-1"	22'-4"	22'-9"	23'-5"
4"	G .024	22'-3"	22'-5"	22'-8"	23'-1"	23'-8"	20'-6"	20'-7"	20'-11"	21'-4"	22'-0"	20'-6"	20'-7"	20'-11"	21'-4"	22'-0"
	U .032	25'-8"	25'-9"	25'-11"	26'-5"	26'-11"	23'-8"	23'-9"	23'-11"	24'-5"	24'-11"	23'-8"	23'-9"	23'-11"	24'-5"	24'-11"
	26ga.	26'-3"	26'-4"	26'-7"	26'-11"	27'-6"	24'-2"	24'-3"	24'-6"	24'-11"	25'-6"	24'-2"	24'-3"	24'-6"	24'-11"	25'-6"
6"	G .024	27'-8"	27'-9"	27'-11"	28'-4"	28'-10"	25'-6"	25'-7"	25'-10"	26'-2"	26'-9"	25'-6"	25'-7"	25'-10"	26'-2"	26'-9"
	U .032	31'-11"	31'-0"	30'-0"	28'-0"	28'-0"	28'-5"	28'-6"	28'-8"	28'-0"	28'-0"	28'-5"	28'-6"	28'-8"	28'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	28'-0"	28'-0"	30'-2"	30'-3"	30'-0"	29'-0"	28'-0"	30'-2"	30'-3"	30'-0"	29'-0"	28'-0"
8"	G .024	32'-0"	31'-0"	30'-0"	28'-0"	28'-0"	29'-8"	29'-8"	30'-0"	28'-0"	28'-0"	29'-8"	29'-8"	30'-0"	28'-0"	28'-0"
	U .032	32'-0"	31'-0"	30'-0"	28'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	28'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"

Panel Thk.	Wind Speed - 120 m.p.h.								Wind Speed - 130 m.p.h.							
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
2"	G .024	12'-10"	12'-11"	13'-5"	-	-	11'-8"	11'-10"	-	-	-	12'-10"	12'-11"	13'-5"	-	-
	U .032	16'-10"	16'-11"	17'-4"	-	-	15'-5"	15'-6"	-	-	-	16'-10"	16'-11"	17'-4"	-	-
	26ga.	17'-7"	17'-8"	17'-11"	-	-	16'-0"	16'-2"	-	-	-	17'-7"	17'-8"	17'-11"	-	-
3"	G .024	17'-5"	17'-6"	17'-10"	18'-5"	-	15'-11"	16'-0"	16'-5"	-	-	15'-11"	16'-0"	16'-5"	-	-
	U .032	20'-5"	20'-6"	20'-10"	21'-3"	-	18'-8"	18'-9"	19'-1"	-	-	18'-8"	18'-9"	19'-1"	-	-
	26ga.	20'-6"	20'-7"	20'-10"	21'-4"	-	18'-8"	18'-9"	19'-1"	-	-	18'-8"	18'-9"	19'-1"	-	-
4"	G .024	18'-1"	18'-2"	18'-6"	20'-0"	-	17'-5"	17'-6"	17'-11"	18'-5"	-	17'-5"	17'-6"	17'-11"	18'-5"	-
	U .032	21'-11"	22'-1"	22'-4"	22'-10"	-	20'-1"	20'-2"	20'-6"	20'-11"	-	20'-1"	20'-2"	20'-6"	20'-11"	-
	26ga.	22'-6"	22'-7"	22'-10"	23'-3"	-	20'-7"	20'-8"	20'-11"	21'-5"	-	20'-7"	20'-8"	20'-11"	21'-5"	-
6"	G .024	23'-9"	23'-10"	24'-1"	24'-6"	25'-0"	21'-8"	21'-9"	22'-0"	22'-6"	-	21'-8"	21'-9"	22'-0"	22'-6"	-
	U .032	27'-4"	27'-5"	27'-8"	28'-0"	28'-0"	24'-11"	25'-1"	25'-4"	25'-8"	-	24'-11"	25'-1"	25'-4"	25'-8"	-
	26ga.	28'-1"	28'-2"	28'-4"	28'-9"	28'-0"	25'-8"	25'-9"	25'-11"	26'-4"	26'-10"	25'-8"	25'-9"	25'-11"	26'-4"	26'-10"
8"	G .024	27'-8"	27'-9"	27'-11"	28'-4"	28'-10"	25'-3"	25'-4"	25'-7"	25'-11"	26'-6"	25'-3"	25'-4"	25'-7"	25'-11"	26'-6"
	U .032	31'-11"	31'-0"	30'-0"	28'-0"	28'-0"	29'-1"	29'-2"	29'-5"	28'-0"	28'-0"	29'-1"	29'-2"	29'-5"	28'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	28'-0"	28'-0"	29'-5"	29'-5"	29'-8"	29'-0"	28'-0"	29'-5"	29'-5"	29'-8"	29'-0"	28'-0"

Panel Thk.	Wind Speed - 140 m.p.h.								Wind Speed - 150 m.p.h.							
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
2"	G .024	9'-1"	9'-3"	-	-	-	9'-1"	9'-3"	-	-	-	9'-1"	9'-3"	-	-	-
	U .032	11'-11"	12'-1"	-	-	-	11'-11"	12'-1"	-	-	-	11'-11"	12'-1"	-	-	-
	26ga.	12'-5"	12'-7"	-	-	-	12'-5"	12'-7"	-	-	-	12'-5"	12'-7"	-	-	-
3"	G .024	12'-4"	12'-6"	12'-11"	-	-	12'-4"	12'-6"	12'-6"	-	-	12'-4"	12'-6"	12'-6"	-	-
	U .032	14'-5"	14'-7"	14'-11"	-	-	14'-5"	14'-7"	-	-	-	14'-5"	14'-7"	-	-	-
	26ga.	14'-6"	14'-7"	15'-0"	-	-	14'-6"	14'-7"	-	-	-	14'-6"	14'-7"	-	-	-
4"	G .024	13'-6"	13'-8"	14'-1"	-	-	13'-6"	13'-8"	14'-1"	-	-	13'-6"	13'-8"	14'-1"	-	-
	U .032	15'-7"	15'-8"	16'-1"	-	-	15'-7"	15'-8"	16'-1"	-	-	15'-7"	15'-8"	16'-1"	-	-
	26ga.	15'-11"	16'-0"	16'-5"	-	-	15'-11"	16'-0"	16'-5"	-	-	15'-11"	16'-0"	16'-5"	-	-
6"	G .024	16'-8"	16'-11"	17'-3"	17'-10"	-	16'-8"	16'-11"	17'-3"	-	-	16'-8"	16'-11"	17'-3"	-	-
	U .032	19'-4"	19'-5"	19'-9"	20'-3"	-	19'-4"	19'-5"	19'-9"	-	-	19'-4"	19'-5"	19'-9"	-	-
	26ga.	19'-10"	19'-11"	20'-3"	20'-9"	-	19'-10"	19'-11"	20'-3"	-	-	19'-10"	19'-11"	20'-3"	-	-
8"	G .024	19'-7"	19'-8"	19'-11"	20'-5"	21'-2"	19'-7"	19'-8"	19'-11"	20'-5"	21'-2"	19'-7"	19'-8"	19'-11"	20'-5"	21'-2"
	U .032	22'-7"	22'-8"	22'-11"	23'-4"	23'-11"	22'-7"	22'-8"	22'-11"	23'-4"	23'-11"	22'-7"	22'-8"	22'-11"	23'-4"	23'-11"
	26ga.	22'-9"	22'-10"	23'-1"	23'-6"	24'-1"	22'-9"	22'-10"	23'-1"	23'-6"	24'-1"	22'-9"	22'-10"	23'-1"	23'-6"	24'-1"

Notes

Charts show Maximum Clear Spans for Snap-N-Lock Composite Panels using 1 lb./cu. ft. EPS. Foam used in "Screen Rooms".

Structures classified as "Screen Rooms" contain solid roofs and at least one solid wall usually the host structure. eg. Attached Screen, Vinyl & Acrylic Rooms Only.

Overhang improves panel span, 4 ft. maximum or as listed.

The Thermal Resistance Value of a panel is R-4 per inch of thickness. eg. a 3" panel has a value of R-12

Panels may be used in a wall or roof application.

For Maximum Panel Clear Spans for 123 MPH Wind Speed, reduce values listed in 120 MPH Wind Speed by multiplying by 0.98

Spans listed are for Exposure B.

For Maximum Panel Clear Spans for Exposure C, reduce values listed by multiplying by 0.85

Maximum Panel Length is 32'-0". On longer clear spans, clear span will be reduced as overhang increases to reflect this limitation.



"Snap-N-Lock" Panel Spans "Screen Rooms"
STRUCTALL BUILDING SYSTEMS STANDARD ENGINEERING
Engineered by LAWRENCE E. BENNETT P.E.
P.O. BOX 4368, S. Daytona, FL 32121, Tel. (386) 767-4774

Scale
None

Page

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"Snap-N-Lock" Panel Spans "Screen Rooms"
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P.O. BOX 4368, S. Daytona, FL 32121, Tel. (386) 767-4774

Scale
None

Page

Notes

Charts show Maximum Clear Spans for Snap-N-Lock Composite Panels using 2 lb./cu. ft. EPS. Foam used in "Screen Rooms".

Structures classified as "Screen Rooms" contain solid roofs and at least one solid wall usually the host structure. eg. Attached Screen, Vinyl & Acrylic Rooms Only.

Overhang improves panel span, 4 ft. maximum or as listed.

The Thermal Resistance Value of a panel is R-4.5 per inch of thickness. eg. a 3" panel has a value of R-13.5

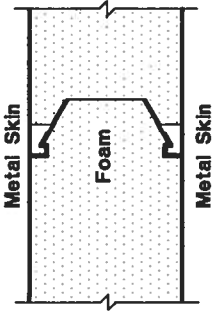
Panels may be used in a wall or roof application.

For Maximum Panel Clear Spans for 123 MPH Wind Speed, reduce values listed in 120 MPH Wind Speed by multiplying by 0.98

Spans listed are for Exposure B.

For Maximum Panel Clear Spans for Exposure C, reduce values listed by multiplying by 0.85

Maximum Panel Length is 32'-0". On longer clear spans, clear span will be reduced as overhang increases to reflect this limitation.



Foam - 2.0# Density EPS.
Aluminum - 3105-H14/H25 Alloy
Steel - ASTM-A726/A 526M-90
Patent # 4,769,963 & 5,086,599

Snap-N-Lock Composite Panel

Panel Thk.	Wind Speed - 100 m.p.h.								Wind Speed - 110 m.p.h.							
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
2"	G .024	16'-5"	16'-6"	16'-11"	17'-6"	-	15'-1"	15'-3"	15'-7"	-	-	15'-1"	15'-3"	15'-7"	-	-
	U .032	21'-7"	21'-8"	21'-11"	22'-5"	-	19'-10"	19'-11"	20'-3"	-	-	19'-10"	19'-11"	20'-3"	-	-
	26ga.	22'-5"	22'-6"	22'-10"	23'-3"	-	20'-8"	20'-9"	21'-0"	-	-	20'-8"	20'-9"	21'-0"	-	-
3"	G .024	22'-3"	22'-4"	22'-7"	23'-1"	23'-8"	20'-6"	20'-7"	20'-10"	21'-4"	21'-11"	20'-6"	20'-7"	20'-10"	21'-4"	21'-11"
	U .032	26'-1"	26'-2"	26'-5"	26'-9"	27'-4"	24'-0"	24'-1"	24'-4"	24'-9"	25'-4"	24'-0"	24'-1"	24'-4"	24'-9"	25'-4"
	26ga.	26'-2"	26'-3"	26'-6"	26'-10"	27'-4"	24'-1"	24'-2"	24'-5"	24'-10"	25'-4"	24'-1"	24'-2"	24'-5"	24'-10"	25'-4"
4"	G .024	24'-5"	24'-6"	24'-9"	25'-2"	25'-8"	22'-6"	22'-7"	22'-10"	23'-3"	23'-10"	22'-6"	22'-7"	22'-10"	23'-3"	23'-10"
	U .032	28'-2"	28'-3"	28'-5"	28'-9"	28'-10"	25'-11"	25'-11"	26'-2"	26'-7"	27'-1"	25'-11"	25'-11"	26'-2"	26'-7"	27'-1"
	26ga.	28'-9"	28'-10"	29'-1"	28'-0"	28'-0"	26'-6"	26'-7"	26'-9"	27'-2"	27'-8"	26'-6"	26'-7"	26'-9"	27'-2"	27'-8"
6"	G .024	30'-4"	30'-5"	30'-8"	31'-0"	31'-6"	27'-11"	27'-11"	28'-2"	28'-7"	28'-0"	27'-11"	27'-11"	28'-2"	28'-7"	28'-0"
	U .032	32'-0"	31'-0"	30'-0"	28'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	28'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
8"	G .024	32'-0"	31'-0"	30'-0"	28'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	U .032	32'-0"	31'-0"	30'-0"	28'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	28'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"

Panel Thk.	Wind Speed - 120 m.p.h.								Wind Speed - 130 m.p.h.				
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Snap-N-Lock Composite Panel																
Panel Thk.	Wind Speed - 100 m.p.h.								Wind Speed - 110 m.p.h.							
	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	
2"	G .024	15'-8"	15'-10"	16'-2"	16'-10"	-	15'-8"	15'-10"	16'-2"	-	-	15'-8"	15'-10"	16'-2"	-	-
	U .032	20'-8"	20'-9"	21'-0"	21'-6"	-	20'-8"	20'-9"	21'-0"	-	-	20'-8"	20'-9"	21'-0"	-	-
	26ga.	21'-6"	21'-7"	21'-10"	22'-4"	22'-11"	21'-6"	21'-7"	21'-10"	-	-	21'-6"	21'-7"	21'-10"	-	-
	G .024	21'-4"	21'-5"	21'-8"	22'-2"	22'-6"	21'-4"	21'-5"	21'-8"	22'-2"	22'-6"	21'-4"	21'-5"	21'-8"	22'-2"	22'-6"
3"	U .032	24'-1"	25'-1"	25'-4"	25'-8"	26'-3"	24'-1"	25'-1"	25'-4"	25'-8"	26'-3"	24'-1"	25'-1"	25'-4"	25'-8"	26'-3"
	26ga.	25'-1"	25'-2"	25'-5"	25'-9"	26'-4"	25'-1"	25'-2"	25'-5"	25'-9"	26'-4"	25'-1"	25'-2"	25'-5"	25'-9"	26'-4"
	G .024	23'-5"	23'-6"	23'-9"	24'-2"	24'-6"	23'-5"	23'-6"	23'-9"	24'-2"	24'-6"	23'-5"	23'-6"	23'-9"	24'-2"	24'-6"
	U .032	26'-11"	27'-0"	27'-3"	27'-7"	28'-0"	26'-11"	27'-0"	27'-3"	27'-7"	28'-0"	26'-11"	27'-0"	27'-3"	27'-7"	28'-0"
4"	26ga.	27'-7"	27'-8"	27'-10"	28'-3"	28'-0"	27'-7"	27'-8"	27'-10"	28'-3"	28'-0"	27'-7"	27'-8"	27'-10"	28'-3"	28'-0"
	G .024	29'-1"	28'-2"	29'-4"	29'-0"	28'-0"	29'-1"	28'-2"	29'-4"	29'-0"	28'-0"	29'-1"	28'-2"	29'-4"	29'-0"	28'-0"
	U .032	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
6"	G .024	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	U .032	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	G .024	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
8"	U .032	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	G .024	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
Panel Thk.	Wind Speed - 140 m.p.h.								Wind Speed - 150 m.p.h.							
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.					
2"	G .024	9'-1"	9'-3"	-	-	-	9'-1"	9'-3"	-	-	-					
	U .032	11'-11"	12'-1"	-	-	-	11'-11"	12'-1"	-	-	-					
	26ga.	12'-5"	12'-7"	-	-	-	12'-5"	12'-7"	-	-	-					
	G .024	12'-4"	12'-6"	12'-11"	-	-	12'-4"	12'-6"	-	-	-					
3"	U .032	14'-5"	14'-7"	14'-11"	-	-	14'-5"	14'-7"	-	-	-					
	26ga.	14'-6"	14'-7"	15'-0"	-	-	14'-6"	14'-7"	-	-	-					
	G .024	13'-6"	13'-8"	14'-1"	-	-	13'-6"	13'-8"	14'-1"	-	-					
	U .032	15'-7"	15'-8"	16'-1"	-	-	15'-7"	15'-8"	16'-1"	-	-					
4"	26ga.	15'-11"	16'-0"	16'-5"	-	-	15'-11"	16'-0"	16'-5"	-	-					
	G .024	16'-9"	16'-11"	17'-3"	17'-10"	-	16'-9"	16'-11"	17'-3"	-	-					
	U .032	19'-4"	18'-5"	19'-9"	20'-3"	-	19'-4"	18'-5"	19'-9"	-	-					
	26ga.	19'-10"	19'-11"	20'-3"	20'-9"	-	19'-10"	19'-11"	20'-3"	-	-					
6"	G .024	19'-7"	19'-8"	19'-11"	20'-5"	21'-2"	19'-7"	19'-8"	19'-11"	20'-5"	21'-2"					
	U .032	22'-7"	22'-8"	22'-11"	23'-4"	23'-11"	22'-7"	22'-8"	22'-11"	23'-4"	23'-11"					
	26ga.	22'-9"	22'-10"	23'-1"	23'-6"	24'-1"	22'-9"	22'-10"	23'-1"	23'-6"	24'-1"					
	G .024	22'-7"	22'-8"	22'-11"	23'-4"	23'-11"	22'-7"	22'-8"	22'-11"	23'-4"	23'-11"					
8"	U .032	25'-7"	25'-8"	25'-11"	26'-4"	26'-11"	25'-7"	25'-8"	25'-11"	26'-4"	26'-11"					
	26ga.	25'-9"	25'-10"	26'-1"	26'-6"	27'-1"	25'-9"	25'-10"	26'-1"	26'-6"	27'-1"					
	G .024	25'-7"	25'-8"	25'-11"	26'-4"	26'-11"	25'-7"	25'-8"	25'-11"	26'-4"	26'-11"					
	26ga.	25'-9"	25'-10"	26'-1"	26'-6"	27'-1"	25'-9"	25'-10"	26'-1"	26'-6"	27'-1"					
Panel Thk.	Wind Speed - 120 m.p.h.								Wind Speed - 130 m.p.h.							
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.					
2"	G .024	14'-11"	15'-1"	15'-6"	-	-	13'-3"	13'-5"	-	-	-					
	U .032	19'-8"	19'-9"	20'-1"	-	-	17'-5"	17'-7"	-	-	-					
	26ga.	20'-6"	20'-7"	20'-10"	-	-	18'-2"	18'-3"	-	-	-					
	G .024	20'-4"	20'-5"	20'-8"	21'-2"	-	18'-0"	18'-1"	18'-5"	-	-					
3"	U .032	23'-10"	23'-11"	24'-2"	24'-7"	-	21'-2"	21'-3"	21'-6"	-	-					
	26ga.	23'-11"	23'-11"	24'-3"	24'-8"	-	21'-2"	21'-3"	21'-7"	-	-					
	G .024	22'-3"	22'-5"	22'-8"	23'-1"	-	19'-9"	19'-10"	20'-2"	20'-8"	-					
	U .032	25'-8"	25'-9"	25'-11"	26'-5"	-	22'-8"	22'-10"	23'-1"	23'-7"	-					
4"	26ga.	26'-3"	26'-4"	26'-7"	26'-11"	-	23'-4"	23'-5"	23'-8"	24'-1"	-					
	G .024	27'-8"	27'-9"	27'-11"	28'-4"	28'-0"	24'-7"	24'-8"	24'-11"	25'-3"	-					
	U .032	31'-11"	31'-0"	30'-0"	29'-0"	28'-0"	26'-4"	26'-5"	26'-7"	26'-11"	-					
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	29'-1"	29'-2"	29'-4"	29'-8"	-					
6"	G .024	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	26'-8"	26'-8"	26'-11"	26'-0"	26'-0"					
	U .032	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"					
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"					
	G .024	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"					
8"	U .032	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"					
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"					
	G .024	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"					
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"					
Notes																
Charts show Maximum Clear Spans for Snap-N-Lock Composite Panels using 1 lb./cu. ft. EPS. Foam used in "Open" Structures. Structures classified as "Open" contain solid roofs with no solid walls, only post and beam roof supports, eg. Free Standing Carports, Free Standing Patio Covers & Free Standing Walkway Covers. Overhang improves panel span, 4 ft. maximum or as listed. The Thermal Resistance Value of a panel is R-4 per inch of thickness, eg. a 3" panel has a value of R-12 Panels may be used in a wall or roof application. For Maximum Panel Clear Spans for 123 MPH Wind Speed, reduce values listed in 120 MPH Wind Speed by multiplying by 0.98 Spans listed are for Exposure B. For Maximum Panel Clear Spans for Exposure C, reduce values listed by multiplying by 0.85 Maximum Panel Length is 32'-0". On longer clear spans, clear span will be reduced as overhang increases to reflect this limitation.																



"Snap-N-Lock" Panel Spans "Open" Structures
STRUCTALL BUILDING SYSTEMS STANDARD ENGINEERING
Engineered by LAWRENCE E. BENNETT P.E.
P.O. BOX 4368, S. Daytona, FL 32121, Tel. (386) 767-4774

Scale
None

Page

Snap-N-Lock Composite Panel																
Panel Thk.	Wind Speed - 100 m.p.h.								Wind Speed - 110 m.p.h.							
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
2"	G .024	17'-2"	17'-4"	17'-8"	18'-3"	-	17'-2"	17'-4"	17'-8"	-	-	-	17'-2"	17'-4"	17'-8"	-
	U .032	22'-7"	22'-8"	22'-11"	23'-5"	-	22'-7"	22'-8"	22'-11"	-	-	-	22'-7"	22'-8"	22'-11"	-
	26ga.	23'-6"	23'-7"	23'-10"	24'-3"	-	23'-6"	23'-7"	23'-10"	-	-	-	23'-6"	23'-7"	23'-10"	-
	G .024	23'-4"	23'-5"	23'-8"	24'-1"	24'-8"	23'-4"	23'-5"	23'-8"	24'-1"	24'-8"	23'-4"	23'-5"	23'-8"	24'-1"	24'-8"
3"	U .032	27'-5"	27'-5"	27'-8"	28'-0"	28'-6"	27'-5"	27'-5"	27'-8"	28'-0"	28'-6"	27'-5"	27'-5"	27'-8"	28'-0"	28'-6"
	26ga.	27'-5"	27'-6"	27'-9"	28'-1"	28'-7"	27'-5"	27'-6"	27'-9"	28'-1"	28'-7"	27'-5"	27'-6"	27'-9"	28'-1"	28'-7"
	G .024	25'-7"	25'-8"	25'-11"	26'-4"	26'-10"	25'-7"	25'-8"	25'-11"	26'-4"	26'-10"	25'-7"	25'-8"	25'-11"	26'-4"	26'-10"
	U .032	28'-6"	28'-7"	28'-9"	28'-0"	28'-0"	28'-6"	28'-7"	28'-9"	28'-0"	28'-0"	28'-6"	28'-7"	28'-9"	28'-0"	28'-0"
4"	26ga.	30'-2"	30'-3"	30'-0"	28'-0"	28'-0"	30'-2"	30'-3"	30'-0"	28'-0"	28'-0"	30'-2"	30'-3"	30'-0"	28'-0"	28'-0"
	G .024	31'-10"	31'-0"	30'-0"	28'-0"	28'-0"	31'-10"	31'-0"	30'-0"	28'-0"	28'-0"	31'-10"	31'-0"	30'-0"	28'-0"	28'-0"
	U .032	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
6"	G .024	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	31'-4"	31'-0"	30'-0"	29'-0"	28'-0"	31'-4"	31'-0"	30'-0"	29'-0"	28'-0"
	U .032	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	G .024	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
8"	U .032	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	G .024	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
Panel Thk.	Wind Speed - 140 m.p.h.								Wind Speed - 150 m.p.h.							
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
2"	G .024	16'-5"	16'-6"	16'-11"	-	-	14'-6"	14'-8"	-	-	-	-	14'-6"	14'-8"	-	-
	U .032	21'-7"	21'-8"	21'-11"	-	-	18'-1"	18'-3"	-	-	-	-	18'-1"	18'-3"	-	-
	26ga.	22'-5"	22'-6"	22'-10"	-	-	18'-11"	18'-11"	-	-	-	-	18'-11"	18'-11"	-	-
	G .024	22'-3"	22'-4"	22'-7"	23'-1"	-	18'-9"	18'-10"	20'-2"	-	-	-	18'-9"	18'-10"	20'-2"	-
3"	U .032	26'-1"	26'-2"	26'-5"	26'-8"	-	23'-2"	23'-3"	23'-6"	-	-	-	23'-2"	23'-3"	23'-6"	-
	26ga.	26'-2"	26'-3"	26'-6"	26'-10"	-	23'-2"	23'-3"	23'-7"	-	-	-	23'-2"	23'-3"	23'-7"	-
	G .024	24'-5"	24'-6"	24'-9"	25'-2"	-	21'-8"	21'-9"	22'-0"	22'-5"	-	-	21'-8"	21'-9"	22'-0"	22'-5"
	U .032	28'-2"	28'-3"	28'-5"	28'-9"	-	24'-11"	25'-0"	25'-3"	25'-6"	-	-	24'-11"	25'-0"	25'-3"	25'-6"
4"	26ga.	28'-6"	28'-10"	29'-1"	29'-0"	-	25'-6"	25'-7"	25'-10"	26'-3"	-	-	25'-6"	25'-7"	25'-10"	26'-3"
	G .024	30'-4"	30'-5"	30'-0"	28'-0"	28'-0"	28'-11"	26'-11"	27'-2"	27'-7"	-	-	28'-6"	28'-11"	29'-2"	29'-7"
	U .032	32'-0"	31'-0"	30'-0"	28'-0"	28'-0"	31'-0"	31'-0"	30'-0"	29'-0"	-	-	31'-0"	31'-0"	30'-0"	29'-0"
	26ga.	32'-0"	31'-0"	30'-0"	28'-0"	28'-0"	31'-10"	31'-0"	30'-0"	29'-0"	-	-	31'-0"	31'-0"	30'-0"	29'-0"
6"	G .024	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	31'-4"	31'-0"	30'-0"	29'-0"	28'-0"	31'-4"	31'-0"	30'-0"	29'-0"	28'-0"
	U .032	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	G .024	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
8"	U .032	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	G .024	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
Panel Thk.	Wind Speed - 120 m.p.h.								Wind Speed - 130 m.p.h.							
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
2"	G .024	16'-5"	16'-6"	16'-11"	-	-	14'-6"	14'-8"	-	-	-	-	14'-6"	14'-8"	-	-
	U .032	21'-7"	21'-8"	21'-11"	-	-	18'-1"	18'-3"	-	-	-	-	18'-1"	18'-3"	-	-
	26ga.	22'-5"	22'-6"	22'-10"	-	-	18'-11"	18'-11"	-	-	-	-	18'-11"	18'-11"	-	-
	G .024	22'-3"	22'-4"	22'-7"	23'-1"	-	18'-9"	18'-10"	20'-2"	-	-	-	18'-9"	18'-10"	20'-2"	-
3"	U .032	26'-1"	26'-2"	26'-5"	26'-8"	-	23'-2"	23'-3"	23'-6"	-	-	-	23'-2"	23'-3"	23'-6"	-
	26ga.	26'-2"	26'-3"	26'-6"	26'-10"	-	23'-2"	23'-3"	23'-7"	-	-	-	23'-2"	23'-3"	23'-7"	-
	G .024	24'-5"	24'-6"	24'-9"	25'-2"	-	21'-8"	21'-9"	22'-0"	22'-5"	-	-	21'-8"	21'-9"	22'-0"	22'-5"
	U .032	28'-2"	28'-3"	28'-5"	28'-9"	-	24'-11"	25'-0"	25'-3"	25'-6"	-	-	24'-11"	25'-0"	25'-3"	25'-6"
4"	26ga.	28'-6"	28'-10"	29'-1"	29'-0"	-	25'-6"	25'-7"	25'-10"	26'-3"	-	-	25'-6"	25'-7"	25'-10"	26'-3"
	G .024	30'-4"	30'-5"	30'-0"	28'-0"	28'-0"	28'-11"	26'-11"	27'-2"	27'-7"	-	-	28'-6"	28'-11"	29'-2"	29'-7"
	U .032	32'-0"	31'-0"	30'-0"	28'-0"	28'-0"	31'-0"	31'-0"	30'-0"	29'-0"	-	-	31'-0"	31'-0"	30'-0"	29'-0"
	26ga.	32'-0"	31'-0"	30'-0"	28'-0"	28'-0"	31'-10"	31'-0"	30'-0"	29'-0"	-	-	31'-0"	31'-0"	30'-0"	29'-0"
6"	G .024	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	31'-4"	31'-0"	30'-0"	29'-0"	28'-0"	31'-4"	31'-0"	30'-0"	29'-0"	28'-0"
	U .032	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	G .024	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
8"	U .032	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	G .024	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
Panel Thk.	Wind Speed - 140 m.p.h.								Wind Speed - 150 m.p.h.							
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
2"	G .024	17'-2"	17'-4"	17'-8"	18'-3"	-	17'-2"	17'-4"	17'-8"	-	-	-	17'-2"	17'-4"	17'-8"	-
	U .032	22'-7"	22'-8"	22'-11"	23'-5"	-	22'-7"	22'-8"	22'-11"	-	-	-	22'-7"	22'-8"	22'-11"	-
	26ga.	23'-6"	23'-7"	23'-10"	24'-3"	-	23'-6"	23'-7"	23'-10"	-	-	-	23'-6"	23'-7"	23'-10"	-
	G .024	23'-4"	23'-5"	23'-8"	24'-1"	24'-8"	23'-4"	23'-5"	23'-8"	24'-1"	24'-8"	23'-4"	23'-5"	23'-8"	24'-1"	24'-8"
3"	U .032	27'-5"	27'-5"	27'-8"	28'-0"	28'-6"	27'-5"	27'-5"	27'-8"	28'-0"	28'-6"	27'-5"	27'-5"	27'-8"	28'-0"	28'-6"
	26ga.	27'-5"	27'-6"	27'-9"	28'-1"	28'-7"	27'-5"	27'-6"	27'-9"	28'-1"	28'-7"	27'-5"	27'-6"	27'-9"	28'-1"	28'-7"
	G .024	25'-7"	25'-8"	25'-11"	26'-4"	26'-10"	25'-7"	25'-8"	25'-11"	26'-4"	26'-10"	25'-7"	25'-8"	25'-11"	26'-4"	26'-10"
	U .032	28'-6"	28'-7"	28'-9"	28'-0"	28'-0"	28'-6"	28'-7"	28'-9"	28'-0"	28'-0"	28'-6"	28'-7"	28'-9"	28'-0"	28'-0"
4"	26ga.	30'-2"	30'-3"	30'-0"	28'-0"	28'-0"	30'-2"	30'-3"	30'-0"	28'-0"	28'-0"	30'-2"	30'-3"	30'-0"	28'-0"	28'-0"
	G .024	31'-10"	31'-0"	30'-0"	28'-0"	28'-0"	31'-10"	31'-0"	30'-0"	28'-0"	28'-0"	31'-10"	31'-0"	30'-0"	28'-0"	28'-0"
	U .032	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
6"	G .024	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	31'-4"	31'-0"	30'-0"	29'-0"	28'-0"	31'-4"	31'-0"	30'-0"	29'-0"	28'-0"
	U .032	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	G .024	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
8"	U .032	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	G .024	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"
Panel Thk.	Wind Speed - 120 m.p.h.								Wind Speed - 130 m.p.h.							
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.</



Panel Spancharts
Snap-N-Lock Composite Panels
STANDARD ENGINEERING BOOK
Engineered by Lawrence E. Bennett

Project No. Eng. 02
Date 03-01-92
Drawn: SRD
Reviewed:

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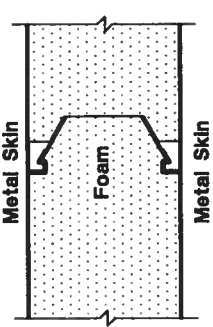
S3

NATIONWIDE 1-800-888-3706
LOCAL 813-888-3827
FAX 813-888-8128



360 BURNAP ROAD
CLDMMR, FLORIDA 34677

Panel Thk.	Wind Speed - 100 m.p.h.								Wind Speed - 110 m.p.h.							
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
2"	G .024	11'-8"	11'-10"	12'-4"	13'-2"	-	10'-10"	11'-0"	11'-7"	-	-	10'-10"	11'-0"	11'-7"	-	-
	U .032	15'-5"	15'-6"	15'-11"	16'-6"	-	14'-3"	14'-5"	14'-10"	-	-	14'-3"	14'-5"	14'-10"	-	-
	26ga.	16'-0"	16'-2"	16'-6"	17'-1"	-	14'-10"	14'-11"	15'-4"	-	-	14'-10"	14'-11"	15'-4"	-	-
	G .024	15'-11"	16'-0"	16'-5"	16'-11"	17'-9"	14'-8"	14'-10"	15'-3"	15'-11"	16'-9"	14'-8"	14'-10"	15'-3"	15'-11"	16'-9"
3"	U .032	18'-8"	18'-9"	19'-1"	19'-7"	20'-3"	17'-3"	17'-4"	17'-8"	18'-3"	19'-0"	17'-3"	17'-4"	17'-8"	18'-3"	19'-0"
	26ga.	18'-8"	18'-9"	19'-1"	19'-7"	20'-4"	17'-4"	17'-5"	17'-9"	18'-4"	19'-1"	17'-4"	17'-5"	17'-9"	18'-4"	19'-1"
	G .024	17'-5"	17'-6"	17'-11"	18'-5"	19'-2"	16'-2"	16'-3"	16'-7"	17'-3"	18'-0"	16'-2"	16'-3"	16'-7"	17'-3"	18'-0"
	U .032	20'-1"	20'-2"	20'-6"	20'-11"	21'-7"	18'-0"	18'-8"	19'-0"	19'-6"	20'-3"	18'-0"	18'-8"	19'-0"	19'-6"	20'-3"
4"	26ga.	20'-7"	20'-8"	20'-11"	21'-5"	22'-1"	19'-0"	19'-2"	19'-5"	19'-11"	20'-8"	19'-0"	19'-2"	19'-5"	19'-11"	20'-8"
	G .024	21'-8"	21'-9"	22'-0"	22'-6"	23'-1"	20'-1"	20'-2"	20'-5"	20'-11"	21'-7"	20'-1"	20'-2"	20'-5"	20'-11"	21'-7"
	U .032	24'-11"	25'-1"	25'-4"	25'-8"	26'-3"	23'-8"	23'-10"	24'-1"	24'-6"	25'-1"	23'-8"	23'-10"	24'-1"	24'-6"	25'-1"
	26ga.	25'-8"	25'-9"	25'-11"	26'-4"	26'-10"	23'-9"	23'-11"	24'-1"	24'-6"	25'-1"	23'-9"	23'-11"	24'-1"	24'-6"	25'-1"
6"	G .024	25'-3"	25'-4"	25'-7"	25'-11"	26'-6"	23'-4"	23'-6"	23'-9"	24'-2"	24'-8"	23'-4"	23'-6"	23'-9"	24'-2"	24'-8"
	U .032	28'-1"	28'-2"	28'-5"	28'-9"	29'-0"	26'-11"	27'-0"	27'-3"	27'-7"	28'-0"	26'-11"	27'-0"	27'-3"	27'-7"	28'-0"
	26ga.	28'-5"	28'-6"	28'-9"	29'-0"	29'-5"	27'-2"	27'-3"	27'-6"	27'-10"	28'-0"	27'-2"	27'-3"	27'-6"	27'-10"	28'-0"
	G .024	21'-8"	21'-9"	22'-0"	22'-6"	23'-1"	19'-0"	19'-2"	19'-5"	19'-11"	20'-8"	19'-0"	19'-2"	19'-5"	19'-11"	20'-8"
8"	U .032	24'-11"	25'-1"	25'-4"	25'-8"	26'-3"	23'-8"	23'-10"	24'-1"	24'-6"	25'-1"	23'-8"	23'-10"	24'-1"	24'-6"	25'-1"
	26ga.	25'-8"	25'-9"	25'-11"	26'-4"	26'-10"	23'-9"	23'-11"	24'-1"	24'-6"	25'-1"	23'-9"	23'-11"	24'-1"	24'-6"	25'-1"
	G .024	21'-8"	21'-9"	22'-0"	22'-6"	23'-1"	19'-0"	19'-2"	19'-5"	19'-11"	20'-8"	19'-0"	19'-2"	19'-5"	19'-11"	20'-8"
	U .032	24'-11"	25'-1"	25'-4"	25'-8"	26'-3"	23'-8"	23'-10"	24'-1"	24'-6"	25'-1"	23'-8"	23'-10"	24'-1"	24'-6"	25'-1"
2"	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
	G .024	9'-11"	10'-2"	-	-	-	9'-1"	9'-3"	9'-11"	-	-	9'-1"	9'-3"	9'-11"	-	-
	U .032	13'-1"	13'-2"	-	-	-	11'-11"	12'-1"	12'-7"	-	-	11'-11"	12'-1"	12'-7"	-	-
	26ga.	13'-7"	13'-9"	-	-	-	12'-5"	12'-7"	13'-0"	-	-	12'-5"	12'-7"	13'-0"	-	-
3"	G .024	13'-6"	13'-7"	14'-1"	-	-	12'-4"	12'-6"	12'-11"	-	-	12'-4"	12'-6"	12'-11"	-	-
	U .032	15'-10"	15'-11"	16'-4"	-	-	14'-5"	14'-7"	14'-11"	-	-	14'-5"	14'-7"	14'-11"	-	-
	26ga.	15'-10"	15'-11"	16'-4"	-	-	14'-6"	14'-7"	15'-0"	-	-	14'-6"	14'-7"	15'-0"	-	-
	G .024	14'-9"	14'-11"	15'-4"	15'-11"	-	13'-6"	13'-8"	14'-1"	-	-	13'-6"	13'-8"	14'-1"	-	-
4"	U .032	17'-0"	17'-2"	17'-6"	18'-1"	-	15'-7"	15'-8"	16'-1"	-	-	15'-7"	15'-8"	16'-1"	-	-
	26ga.	17'-5"	17'-7"	17'-11"	18'-5"	-	15'-11"	16'-0"	16'-5"	-	-	15'-11"	16'-0"	16'-5"	-	-
	G .024	18'-5"	18'-6"	18'-10"	19'-4"	20'-1"	16'-9"	16'-11"	17'-3"	17'-10"	-	16'-9"	16'-11"	17'-3"	17'-10"	-
	U .032	21'-2"	21'-3"	21'-7"	22'-0"	22'-8"	19'-4"	19'-5"	19'-9"	20'-3"	-	19'-4"	19'-5"	19'-9"	20'-3"	-
6"	26ga.	21'-9"	21'-10"	22'-1"	22'-7"	23'-2"	19'-10"	19'-11"	20'-3"	20'-9"	-	19'-10"	19'-11"	20'-3"	20'-9"	-
	G .024	21'-5"	21'-6"	21'-10"	22'-3"	22'-10"	19'-7"	19'-8"	19'-11"	20'-5"	-	19'-7"	19'-8"	19'-11"	20'-5"	-
	U .032	24'-9"	24'-10"	25'-0"	25'-8"	25'-11"	22'-7"	22'-8"	22'-11"	23'-4"	-	22'-7"	22'-8"	22'-11"	23'-4"	-
	26ga.	24'-11"	25'-0"	25'-3"	25'-8"	26'-2"	22'-9"	22'-10"	23'-1"	23'-6"	-	22'-9"	22'-10"	23'-1"	23'-6"	-
2"	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
	G .024	7'-11"	8'-2"	-	-	-	7'-5"	7'-8"	-	-	-	7'-5"	7'-8"	-	-	-
	U .032	11'-0"	11'-3"	-	-	-	10'-4"	10'-6"	-	-	-	10'-4"	10'-6"	-	-	-
	26ga.	11'-6"	11'-8"	-	-	-	10'-9"	10'-11"	-	-	-	10'-9"	10'-11"	-	-	-
3"	G .024	11'-5"	11'-7"	12'-1"	-	-	10'-8"	10'-10"	-	-	-	10'-8"	10'-10"	-	-	-
	U .032	13'-4"	13'-6"	13'-11"	-	-	12'-8"	12'-8"	-	-	-	12'-8"	12'-8"	-	-	-
	26ga.	13'-5"	13'-7"	13'-11"	-	-	12'-6"	12'-6"	-	-	-	12'-6"	12'-6"	-	-	-
	G .024	12'-6"	12'-8"	13'-1"	-	-	11'-8"	11'-10"	12'-4"	-	-	11'-8"	11'-10"	12'-4"	-	-
4"	U .032	14'-5"	14'-6"	14'-11"	-	-	13'-6"	13'-7"	14'-1"	-	-	13'-6"	13'-7"	14'-1"	-	-
	26ga.	14'-9"	14'-10"	15'-3"	-	-	13'-9"	13'-11"	14'-4"	-	-	13'-9"	13'-11"	14'-4"	-	-
	G .024	15'-6"	15'-8"	16'-0"	16'-8"	-	14'-6"	14'-8"	15'-1"	-	-	14'-6"	14'-8"	15'-1"	-	-
	U .032	17'-11"	18'-0"	18'-4"	18'-11"	-	16'-8"	16'-11"	17'-3"	-	-	16'-8"	16'-11"	17'-3"	-	-
6"	26ga.	18'-5"	18'-6"	18'-10"	19'-4"	-	17'-2"	17'-4"	17'-8"	-	-	17'-2"	17'-4"	17'-8"	-	-
	G .024	18'-1"	18'-3"	18'-7"	19'-1"	-	16'-11"	17'-1"	17'-5"	-	-	16'-11"	17'-1"	17'-5"	-	-
	U .032	20'-11"	20'-11"	21'-3"	21'-9"	-	19'-6"	19'-8"	19'-11"	-	-	19'-6"	19'-8"	19'-11"	-	-
	26ga.	21'-1"	21'-2"	21'-5"	21'-11"	-	18'-9"	19'-10"	20'-1"	-	-	18'-9"	19'-10"	20'-1"	-	-
8"	G .024	21'-8"	21'-9"	22'-0"	22'-6"	23'-1"	19'-0"	19'-2"	19'-5"	19'-11"	20'-8"	19'-0"	19'-2"	19'-5"	19'-11"	20'-8"
	U .032	24'-11"	25'-1"	25'-4"	25'-8"	26'-3"	23'-8"	23'-10"	24'-1"	24'-6"	25'-1"	23'-8"	23'-10"	24'-1"	24'-6"	25'-1"
	26ga.	25'-8"	25'-9"	25'-11"	26'-4"	26'-10"	23'-9"	23'-11"	24'-1"	24'-6"	25'-1"	23'-9"	23'-11"	24'-1"	24'-6"	25'-1"
	G .024	21'-8"	21'-9"	22'-0"	22'-6"	23'-1"	19'-0"	19'-2"	19'-5"	19'-11"	20'-8"	19'-0"	19'-2"	19'-5"	19'-11"	20'-8"



Foam - 10# Density EPS.
Aluminum - 3105-H14/H25 Alloy
Steel - ASTM-A28/A 528M-90
Patent # 4,769,963 & 5,086,599

Charts show Maximum Clear Spans for Snap-N-Lock Composite Panels using 1 lb./cu. ft. EPS. Foam used in "Enclosed" Structures.

Structures classified as "Enclosed" contain solid walls and roofs with glass glazed windows & doors in them. eg. Glass Rooms, Additions, Garages & Houses.

Overhang improves panel span, 4 ft. maximum or as listed.

The Thermal Resistance Value of a panel is R-4 per inch of thickness. eg. a 3" panel has a value of R-12

Panel may be used in a wall or roof application.

For Maximum Panel Clear Spans for 123 MPH Wind Speed, reduce values listed in 120 MPH Wind Speed by multiplying by 0.98

Spans listed are for Exposure B.

For Maximum Panel Clear Spans for Exposure C, reduce values listed by multiplying by 0.85

Maximum Panel Length is 32'-0". On longer clear spans, clear span will be reduced as overhang increases to reflect this limitation.

360 BURNAP ROAD
CLDMMR, FLORIDA 34677

NATIONWIDE 1-800-888-3706
LOCAL 813-888-3827
FAX 813-888-8128

"Snap-N-Lock" Panel Spans "Enclosed" Structures

STRUCTALL BUILDING SYSTEMS STANDARD ENGINEERING

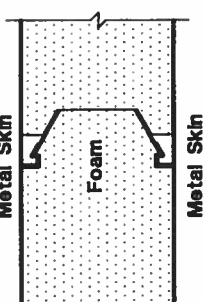
Engineered by LAWRENCE E. BENNETT P.E.

P.O. BOX 4368, S. Daytona, FL 32121, Tel. (386) 767-4774

Scale: None

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Panel Thk.	Wind Speed - 100 m.p.h.								Wind Speed - 110 m.p.h.								Snap-N-Lock Composite Panel
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.						
2"	G .024	12'-10"	12'-11"	13'-5"	14'-2"	-	11'-10"	12'-0"	12'-6"	-	-	-	-				
	U .032	16'-10"	16'-11"	17'-4"	17'-11"	-	15'-7"	15'-9"	16'-1"	-	-	-	-				
	26ga.	17'-7"	17'-8"	17'-11"	18'-6"	-	16'-3"	16'-4"	16'-9"	-	-	-	-				
	G .024	17'-5"	17'-8"	17'-10"	18'-5"	19'-2"	16'-1"	16'-3"	16'-7"	17'-2"	17'-11"	-	-				
3"	U .032	20'-5"	20'-6"	20'-10"	21'-3"	21'-11"	18'-11"	19'-0"	19'-4"	19'-10"	20'-6"	-	-				
	26ga.	20'-6"	20'-7"	20'-10"	21'-4"	21'-11"	18'-11"	19'-1"	19'-4"	19'-10"	20'-7"	-	-				
	G .024	19'-1"	19'-2"	19'-6"	20'-0"	20'-8"	17'-8"	17'-9"	18'-1"	18'-8"	19'-5"	-	-				
	U .032	21'-11"	22'-1"	22'-4"	22'-10"	23'-5"	20'-4"	20'-6"	20'-9"	21'-3"	21'-11"	-	-				
4"	26ga.	22'-6"	22'-7"	22'-10"	23'-3"	23'-11"	20'-10"	20'-11"	21'-3"	21'-8"	22'-4"	-	-				
	G .024	23'-9"	23'-10"	24'-1"	24'-6"	25'-0"	21'-11"	22'-1"	22'-4"	22'-9"	23'-5"	-	-				
	U .032	27'-4"	27'-5"	27'-8"	28'-0"	28'-4"	25'-4"	25'-5"	25'-8"	26'-0"	26'-7"	-	-				
	26ga.	28'-1"	28'-2"	28'-4"	28'-9"	28'-10"	26'-0"	26'-1"	26'-4"	26'-8"	27'-3"	-	-				
6"	G .024	27'-8"	27'-9"	27'-11"	28'-4"	28'-10"	25'-7"	25'-8"	25'-11"	26'-4"	26'-10"	-	-				
	U .032	31'-11"	31'-0"	30'-0"	29'-0"	28'-0"	28'-0"	28'-7"	28'-10"	29'-0"	29'-6"	-	-				
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	28'-0"	28'-10"	29'-0"	29'-6"	30'-0"	-	-				
	G .024	27'-8"	27'-9"	27'-11"	28'-4"	28'-10"	25'-7"	25'-8"	25'-11"	26'-4"	26'-10"	-	-				
8"	U .032	31'-11"	31'-0"	30'-0"	29'-0"	28'-0"	28'-0"	28'-7"	28'-10"	29'-0"	29'-6"	-	-				
	26ga.	32'-0"	31'-0"	30'-0"	29'-0"	28'-0"	28'-0"	28'-10"	29'-0"	29'-6"	30'-0"	-	-				
	G .024	27'-8"	27'-9"	27'-11"	28'-4"	28'-10"	25'-7"	25'-8"	25'-11"	26'-4"	26'-10"	-	-				
	U .032	31'-11"	31'-0"	30'-0"	29'-0"	28'-0"	28'-0"	28'-7"	28'-10"	29'-0"	29'-6"	-	-				



Metal Skin

Foam

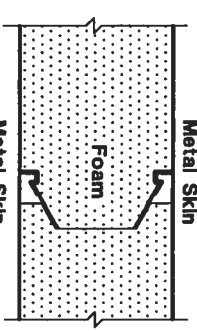
Metal Skin

Foam - 2.0# Density EPS.

Aluminum - 3105-H14/H25 Alloy

Steel - ASTM-A728/A 528M-80

Patent # 4,769,963 & 5,086,599

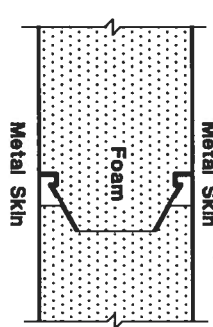
Snap-N-Lock Composite Panel											
Panel Thk.	Wind Speed - 100 m.p.h.				Wind Speed - 110 m.p.h.						
	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.		3 FT.	4 FT.
2"	G .024	10'-4"	10'-7"	11'-1"	11'-11"	-	8'-5"	8'-7"	10'-2"	-	-
	U .032	13'-7"	13'-9"	14'-2"	14'-11"	-	12'-4"	12'-6"	12'-11"	-	-
	U .032	14'-2"	14'-4"	14'-9"	15'-5"	-	12'-10"	12'-11"	13'-5"	-	-
	U .26ga.	14'-2"	14'-4"	14'-9"	15'-5"	-	12'-10"	12'-11"	13'-5"	-	-
3"	G .024	14'-1"	14'-2"	14'-7"	15'-3"	16'-2"	12'-9"	12'-11"	13'-4"	14'-1"	15'-0"
	U .032	16'-6"	16'-7"	16'-11"	17'-6"	18'-4"	14'-11"	15'-1"	15'-6"	16'-1"	16'-11"
	U .032	16'-6"	16'-8"	17'-0"	17'-7"	18'-4"	14'-11"	15'-1"	15'-6"	16'-2"	16'-11"
	U .26ga.	16'-6"	16'-8"	17'-0"	17'-7"	18'-4"	14'-11"	15'-1"	15'-6"	16'-2"	16'-11"
4"	G .024	15'-5"	15'-7"	15'-11"	16'-6"	17'-4"	13'-11"	14'-1"	14'-6"	15'-2"	16'-1"
	U .032	17'-9"	17'-11"	18'-3"	18'-9"	19'-6"	16'-1"	16'-3"	16'-7"	17'-2"	17'-11"
	U .032	17'-9"	18'-3"	18'-7"	19'-2"	19'-10"	16'-6"	16'-7"	16'-11"	17'-6"	18'-4"
	U .26ga.	18'-2"	18'-3"	18'-7"	19'-2"	19'-10"	16'-6"	16'-7"	16'-11"	17'-6"	18'-4"
6"	G .024	19'-2"	19'-3"	19'-7"	20'-1"	20'-9"	17'-4"	17'-6"	17'-10"	18'-4"	19'-1"
	U .032	22'-1"	22'-2"	22'-5"	22'-11"	23'-6"	20'-0"	20'-2"	20'-5"	20'-11"	21'-7"
	U .032	22'-1"	22'-2"	22'-9"	23'-0"	23'-6"	20'-7"	20'-8"	20'-11"	21'-5"	22'-1"
	U .26ga.	22'-8"	22'-9"	22'-9"	23'-0"	23'-6"	20'-7"	20'-8"	20'-11"	21'-5"	22'-1"
8"	G .024	22'-4"	22'-5"	22'-8"	23'-2"	23'-8"	20'-3"	20'-4"	20'-8"	21'-1"	21'-9"
	U .032	25'-9"	25'-10"	26'-1"	26'-5"	26'-11"	23'-4"	23'-5"	23'-8"	24'-1"	24'-8"
	U .032	25'-11"	26'-1"	26'-4"	26'-8"	27'-2"	23'-7"	23'-8"	23'-11"	24'-4"	24'-11"
	U .26ga.	25'-11"	26'-1"	26'-4"	26'-8"	27'-2"	23'-7"	23'-8"	23'-11"	24'-4"	24'-11"
Panel Thk.	Wind Speed - 120 m.p.h.				Wind Speed - 130 m.p.h.				Notes		
	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.		3 FT.	4 FT.
2"	G .024	8'-2"	8'-9"	-	-	-	7'-7"	7'-10"	-	-	-
	U .032	11'-2"	11'-4"	-	-	-	10'-5"	10'-8"	-	-	-
	U .032	11'-8"	11'-10"	-	-	-	10'-11"	11'-1"	-	-	-
	U .26ga.	11'-8"	11'-10"	-	-	-	10'-11"	11'-1"	-	-	-
3"	G .024	11'-7"	11'-9"	12'-3"	-	-	10'-9"	10'-11"	11'-6"	-	-
	U .032	13'-7"	13'-8"	14'-2"	-	-	12'-8"	12'-10"	13'-3"	-	-
	U .032	13'-7"	13'-9"	14'-2"	-	-	12'-8"	12'-10"	13'-4"	-	-
	U .26ga.	13'-7"	13'-9"	14'-2"	-	-	12'-8"	12'-10"	13'-4"	-	-
4"	G .024	12'-8"	12'-10"	13'-4"	14'-0"	-	11'-10"	12'-0"	12'-6"	-	-
	U .032	14'-7"	14'-9"	15'-2"	15'-10"	-	13'-8"	13'-9"	14'-3"	-	-
	U .032	14'-7"	14'-9"	15'-2"	15'-10"	-	13'-8"	13'-9"	14'-3"	-	-
	U .26ga.	14'-11"	15'-1"	15'-6"	16'-1"	-	13'-11"	14'-1"	14'-6"	-	-
6"	G .024	15'-9"	15'-11"	16'-3"	16'-10"	17'-8"	14'-9"	14'-10"	15'-3"	15'-11"	-
	U .032	18'-2"	18'-3"	18'-7"	18'-2"	19'-10"	16'-11"	17'-1"	17'-5"	17'-11"	-
	U .032	18'-6"	18'-9"	19'-1"	19'-7"	20'-4"	17'-5"	17'-6"	17'-10"	18'-5"	-
	U .26ga.	18'-6"	18'-9"	19'-1"	19'-7"	20'-4"	17'-5"	17'-6"	17'-10"	18'-5"	-
8"	G .024	18'-4"	18'-6"	18'-10"	18'-4"	20'-0"	17'-2"	17'-3"	17'-7"	18'-2"	-
	U .032	21'-2"	21'-3"	21'-7"	22'-0"	22'-8"	18'-9"	19'-1"	20'-2"	20'-8"	-
	U .032	21'-2"	21'-3"	21'-7"	22'-0"	22'-8"	18'-9"	19'-1"	20'-2"	20'-8"	-
	U .26ga.	21'-5"	21'-6"	21'-9"	22'-2"	22'-10"	18'-11"	20'-1"	20'-4"	20'-10"	-
Panel Thk.	Wind Speed - 140 m.p.h.				Wind Speed - 150 m.p.h.						
	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.		3 FT.	4 FT.
2"	G .024	7'-0"	7'-4"	-	-	-	6'-7"	6'-11"	-	-	-
	U .032	9'-7"	9'-10"	-	-	-	8'-1"	8'-3"	-	-	-
	U .032	10'-0"	10'-3"	-	-	-	8'-5"	8'-8"	-	-	-
	U .26ga.	10'-0"	10'-3"	-	-	-	8'-5"	8'-8"	-	-	-
3"	G .024	9'-11"	10'-2"	10'-8"	-	-	8'-4"	8'-7"	-	-	-
	U .032	11'-8"	11'-10"	12'-4"	-	-	10'-11"	11'-2"	-	-	-
	U .032	11'-8"	11'-10"	12'-4"	-	-	10'-11"	11'-2"	-	-	-
	U .26ga.	11'-8"	11'-10"	12'-4"	-	-	10'-11"	11'-2"	-	-	-
4"	G .024	10'-11"	11'-1"	11'-7"	-	-	10'-3"	10'-5"	11'-0"	-	-
	U .032	12'-7"	12'-9"	13'-2"	-	-	11'-10"	11'-11"	12'-6"	-	-
	U .032	12'-7"	13'-0"	13'-6"	-	-	12'-9"	12'-3"	12'-9"	-	-
	U .26ga.	13'-7"	13'-8"	14'-2"	-	-	12'-9"	12'-11"	13'-4"	-	-
6"	G .024	15'-8"	15'-9"	16'-2"	-	-	14'-8"	14'-10"	15'-3"	-	-
	U .032	16'-0"	16'-2"	16'-6"	17'-2"	-	15'-1"	15'-3"	15'-7"	-	-
	U .032	16'-0"	16'-2"	16'-6"	17'-2"	-	15'-1"	15'-3"	15'-7"	-	-
	U .26ga.	16'-0"	16'-2"	16'-6"	17'-2"	-	15'-1"	15'-3"	15'-7"	-	-
8"	G .024	15'-10"	15'-11"	16'-4"	18'-11"	-	14'-10"	14'-11"	15'-5"	-	-
	U .032	18'-3"	18'-4"	18'-8"	19'-2"	-	17'-2"	17'-3"	17'-7"	-	-
	U .032	18'-3"	18'-4"	18'-8"	19'-2"	-	17'-2"	17'-3"	17'-7"	-	-
	U .26ga.	18'-5"	18'-6"	18'-10"	19'-4"	-	17'-3"	17'-5"	17'-9"	-	-
Foam - 10# Density EPS. Aluminum - 3105-H14/H25 Alloy Steel - ASTM-A126/A 528M-90 Patent # 4,769,963 & 5,086,599											
											



"Snap-N-Lock" Panel Spans "Partially Enclosed"
STRUCTALL BUILDING SYSTEMS STANDARD ENGINEERING
Engineered by LAWRENCE E. BENNETT P.E.
P.O. BOX 4368, S. Daytona, FL 32121, Tel. (386) 767-4774

Scale
None

Page

Snap-N-Lock Composite Panel										
Panel Thk.	Wind Speed - 100 m.p.h.				Wind Speed - 110 m.p.h.					
	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
2"	G .024	11'-4"	11'-6"	12'-0"	12'-10"	-	10'-3"	10'-6"	11'-0"	-
	U .032	14'-11"	15'-1"	15'-5"	16'-1"	-	13'-6"	13'-8"	14'-1"	-
	U .26ga.	15'-6"	15'-8"	16'-0"	16'-6"	-	14'-1"	14'-2"	14'-7"	-
	G .024	15'-5"	15'-6"	15'-11"	16'-6"	17'-4"	13'-11"	14'-1"	14'-6"	15'-2"
3"	G .032	18'-1"	18'-2"	18'-6"	19'-0"	19'-6"	16'-4"	16'-6"	16'-10"	17'-5"
	U .032	18'-1"	18'-2"	18'-6"	19'-0"	19'-6"	16'-4"	16'-6"	16'-10"	17'-5"
	U .26ga.	18'-1"	18'-3"	18'-6"	19'-1"	19'-10"	16'-5"	16'-11"	17'-6"	18'-3"
	G .024	16'-11"	17'-0"	17'-4"	17'-11"	18'-8"	15'-4"	15'-5"	15'-10"	16'-5"
4"	U .032	18'-6"	19'-7"	19'-10"	20'-4"	21'-0"	17'-8"	17'-9"	18'-1"	18'-4"
	U .26ga.	19'-11"	20'-0"	20'-4"	20'-10"	21'-5"	18'-1"	18'-2"	18'-6"	19'-0"
	G .024	20'-11"	21'-1"	21'-4"	21'-10"	22'-6"	19'-0"	19'-2"	19'-5"	19'-11"
	U .032	24'-2"	24'-3"	24'-6"	24'-11"	25'-6"	21'-11"	22'-0"	22'-4"	22'-8"
6"	U .26ga.	24'-10"	24'-11"	25'-2"	25'-7"	26'-1"	22'-6"	22'-7"	22'-10"	23'-4"
	G .024	24'-6"	24'-7"	24'-9"	25'-2"	25'-9"	22'-2"	22'-3"	22'-6"	22'-11"
	U .032	28'-3"	28'-4"	28'-6"	28'-10"	29'-0"	25'-7"	25'-8"	25'-11"	26'-3"
	U .26ga.	28'-6"	28'-7"	28'-9"	29'-0"	29'-6"	25'-10"	25'-11"	26'-1"	26'-6"
8"	U .26ga.	28'-6"	28'-7"	28'-9"	29'-0"	29'-6"	25'-10"	25'-11"	26'-1"	26'-6"
	U .26ga.	28'-6"	28'-7"	28'-9"	29'-0"	29'-6"	25'-10"	25'-11"	26'-1"	26'-6"
	U .26ga.	28'-6"	28'-7"	28'-9"	29'-0"	29'-6"	25'-10"	25'-11"	26'-1"	26'-6"
	U .26ga.	28'-6"	28'-7"	28'-9"	29'-0"	29'-6"	25'-10"	25'-11"	26'-1"	26'-6"
Notes										
Charts show Maximum Clear Spans for Snap-N-Lock Composite Panels using 2 lb./cu. ft. E.P.S. Foam used in "Partially Enclosed" Structures.										
Structures classified as "Partially Enclosed" contain solid walls and roofs with glass glazed windows & doors in them. eg. Glass Rooms, Additions, Garages & Houses. Or solid roofs with at least one solid wall usually the host structure. eg. Attached Carports, Attached Patio Covers & Attached Walkway Covers. This chart is used as an alternative to installing impact glass or shutters in wind borne debris areas and accounts for added internal building pressures.										
Overhang improves panel span, 4 ft. maximum or as listed.										
The Thermal Resistance Value of a panel is R-4.5 per inch of thickness. eg. a 3" panel has a value of R-13.5										
Panels may be used in a wall or roof application.										
For Maximum Panel Clear Spans for 123 MPH Wind Speed, reduce values listed in 120 MPH Wind Speed by multiplying by 0.98										
Spans listed are for Exposure B.										
For Maximum Panel Clear Spans for Exposure C, reduce values listed by multiplying by 0.85										
Maximum Panel Length is 32'-0". On longer clear spans, clear span will be reduced as overhang increases to reflect this limitation.										
										



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Scale
None

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Panel Spancharts
Snap-N-Lock Composite Panels
STANDARD ENGINEERING BOOK
Engineered by Lawrence E. Bennett

360 BURBANK ROAD
OLDSMAR, FLORIDA
34677



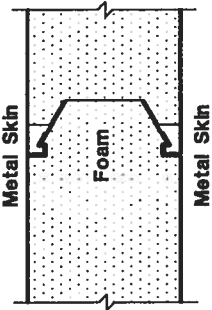
NATIONWIDE 1-800-889-3706
LOCAL 813-855-2827
FAX 813-855-8128



Snap-N-Lock Composite Panel											
Panel Thk.	DL + LL @ 22 lbs. per sq. ft.				DL + LL @ 32 lbs. / sq. ft.				Notes		
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
2"	G .024	10'-7"	10'-9"	11'-4"	-	-	8'-9"	9'-0"	-	-	-
	U .032	13'-11"	14'-1"	14'-6"	-	-	11'-8"	11'-9"	-	-	-
	26ga.	14'-6"	14'-7"	15'-0"	-	-	12'-0"	12'-2"	-	-	-
3"	G .024	14'-4"	14'-6"	14'-11"	15'-7"	-	11'-11"	12'-1"	12'-7"	-	-
	U .032	16'-10"	16'-11"	17'-4"	17'-11"	-	13'-11"	14'-1"	14'-6"	-	-
	26ga.	16'-11"	17'-0"	17'-4"	17'-11"	-	14'-0"	14'-2"	14'-7"	-	-
4"	G .024	15'-9"	15'-11"	16'-3"	16'-10"	17'-8"	13'-1"	13'-3"	13'-8"	14'-5"	-
	U .032	18'-2"	18'-3"	18'-7"	19'-2"	19'-10"	15'-1"	15'-2"	15'-7"	16'-3"	-
	26ga.	18'-7"	18'-8"	19'-0"	19'-6"	20'-3"	15'-5"	15'-6"	15'-11"	16'-8"	-
6"	G .024	18'-7"	19'-8"	19'-11"	20'-6"	21'-2"	16'-3"	16'-4"	16'-9"	17'-4"	18'-1"
	U .032	22'-7"	22'-8"	23'-11"	23'-5"	24'-8"	18'-9"	18'-10"	19'-2"	19'-8"	20'-4"
	26ga.	23'-2"	23'-3"	23'-6"	23'-11"	24'-8"	19'-3"	19'-4"	19'-8"	20'-2"	20'-10"
8"	G .024	22'-10"	22'-11"	23'-2"	23'-7"	24'-2"	18'-11"	19'-0"	19'-4"	19'-10"	20'-7"
	U .032	26'-4"	26'-5"	26'-8"	27'-0"	27'-6"	21'-10"	21'-11"	22'-2"	22'-8"	23'-3"
	26ga.	26'-7"	26'-8"	26'-11"	27'-3"	27'-9"	22'-0"	22'-2"	22'-5"	22'-10"	23'-5"
Panel Thk.	DL + LL @ 42 lbs. per sq. ft.				DL + LL @ 52 lbs. / sq. ft.				Notes		
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
2"	G .024	7'-8"	7'-11"	-	-	-	6'-11"	7'-2"	-	-	-
	U .032	10'-1"	10'-3"	-	-	-	9'-1"	9'-3"	-	-	-
	26ga.	10'-6"	10'-8"	-	-	-	9'-5"	9'-8"	-	-	-
3"	G .024	10'-5"	10'-7"	11'-2"	-	-	9'-4"	9'-7"	-	-	-
	U .032	12'-2"	12'-4"	12'-10"	-	-	10'-11"	11'-2"	-	-	-
	26ga.	12'-3"	12'-5"	12'-10"	-	-	10'-11"	11'-2"	-	-	-
4"	G .024	11'-5"	11'-7"	12'-1"	-	-	10'-3"	10'-9"	11'-0"	-	-
	U .032	13'-2"	13'-4"	13'-9"	-	-	11'-10"	11'-11"	12'-6"	-	-
	26ga.	13'-5"	13'-7"	14'-0"	-	-	12'-1"	12'-3"	12'-9"	-	-
6"	G .024	14'-2"	14'-4"	14'-9"	-	-	12'-9"	12'-11"	13'-4"	-	-
	U .032	16'-4"	16'-6"	16'-10"	-	-	14'-8"	14'-10"	15'-3"	-	-
	26ga.	16'-9"	16'-11"	17'-3"	-	-	15'-1"	15'-3"	15'-7"	-	-
8"	G .024	16'-6"	16'-8"	17'-0"	17'-7"	-	14'-10"	14'-11"	15'-5"	-	-
	U .032	19'-1"	19'-2"	19'-6"	19'-11"	-	17'-2"	17'-3"	17'-7"	-	-
	26ga.	19'-3"	19'-4"	19'-8"	20'-2"	-	17'-3"	17'-5"	17'-9"	-	-
Panel Thk.	DL + LL @ 62 lbs. per sq. ft.				DL + LL @ 72 lbs. / sq. ft.				Notes		
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
2"	G .024	6'-4"	6'-7"	-	-	-	5'-10"	-	-	-	-
	U .032	8'-3"	8'-6"	-	-	-	7'-8"	-	-	-	-
	26ga.	8'-8"	8'-10"	-	-	-	8'-0"	-	-	-	-
3"	G .024	8'-7"	9'-9"	-	-	-	7'-11"	8'-2"	-	-	-
	U .032	10'-0"	10'-3"	-	-	-	9'-4"	9'-6"	-	-	-
	26ga.	10'-1"	10'-3"	-	-	-	9'-5"	9'-7"	-	-	-
4"	G .024	9'-5"	9'-7"	-	-	-	8'-9"	8'-11"	-	-	-
	U .032	10'-10"	11'-0"	-	-	-	10'-0"	10'-3"	-	-	-
	26ga.	11'-1"	11'-3"	-	-	-	10'-3"	10'-6"	-	-	-
6"	G .024	11'-8"	11'-10"	12'-4"	-	-	10'-10"	11'-0"	-	-	-
	U .032	13'-6"	13'-7"	14'-0"	-	-	12'-6"	12'-8"	-	-	-
	26ga.	13'-10"	13'-11"	14'-5"	-	-	12'-10"	11'-0"	-	-	-
8"	G .024	13'-7"	13'-9"	14'-2"	-	-	12'-7"	12'-9"	13'-3"	-	-
	U .032	15'-8"	15'-10"	16'-2"	-	-	14'-7"	14'-8"	15'-1"	-	-
	26ga.	15'-10"	15'-11"	16'-4"	-	-	14'-8"	14'-10"	15'-3"	-	-



Snap-N-Lock Composite Panel											
Panel Thk.	DL + LL @ 22 lbs. per sq. ft.				DL + LL @ 32 lbs. / sq. ft.				Notes		
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
2"	G .024	11'-7"	11'-8"	12'-3"	-	-	9'-7"	9'-10"	-	-	-
	U .032	15'-3"	15'-5"	15'-9"	-	-	12'-8"	12'-10"	-	-	-
	26ga.	15'-10"	15'-11"	16'-4"	-	-	13'-2"	13'-4"	-	-	-
3"	G .024	15'-9"	15'-10"	16'-3"	16'-10"	-	13'-1"	13'-2"	13'-8"	-	-
	U .032	18'-6"	18'-7"	18'-11"	19'-5"	-	15'-4"	15'-5"	15'-10"	-	-
	26ga.	18'-6"	18'-7"	18'-11"	19'-6"	-	15'-4"	15'-6"	15'-10"	-	-
4"	G .024	17'-3"	17'-5"	17'-9"	18'-3"	19'-0"	14'-4"	14'-5"	14'-10"	15'-6"	-
	U .032	19'-11"	19'-11"	20'-4"	20'-9"	21'-5"	16'-6"	16'-7"	16'-11"	17'-7"	-
	26ga.	20'-4"	20'-5"	20'-9"	21'-3"	21'-10"	16'-11"	16'-11"	17'-4"	17'-11"	-
6"	G .024	21'-6"	21'-7"	21'-10"	22'-3"	22'-11"	17'-10"	17'-11"	18'-3"	18'-9"	19'-6"
	U .032	24'-8"	24'-10"	25'-1"	25'-6"	26'-0"	20'-6"	20'-7"	20'-11"	21'-5"	22'-0"
	26ga.	25'-5"	25'-6"	25'-9"	26'-1"	26'-8"	21'-1"	21'-2"	21'-5"	21'-11"	22'-6"
8"	G .024	25'-0"	25'-1"	25'-4"	25'-9"	26'-3"	20'-9"	20'-10"	21'-1"	21'-7"	22'-3"
	U .032	28'-10"	28'-11"	29'-2"	29'-6"	29'-11"	23'-11"	24'-0"	24'-3"	24'-8"	25'-3"
	26ga.	29'-1"	29'-2"	29'-5"	29'-9"	30'-2"	24'-2"	24'-3"	24'-6"	24'-10"	25'-5"
Panel Thk.	DL + LL @ 42 lbs. per sq. ft.				DL + LL @ 52 lbs. / sq. ft.				Notes		
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
2"	G .024	8'-5"	8'-8"	-	-	-	7'-7"	7'-10"	-	-	-
	U .032	11'-0"	11'-3"	-	-	-	9'-11"	10'-1"	-	-	-
	26ga.	11'-6"	11'-8"	-	-	-	10'-4"	10'-6"	-	-	-
3"	G .024	11'-5"	11'-7"	12'-1"	-	-	10'-3"	10'-5"	-	-	-
	U .032	13'-4"	13'-6"	13'-11"	-	-	12'-0"	12'-2"	-	-	-
	26ga.	13'-5"	13'-7"	13'-11"	-	-	12'-0"	12'-2"	-	-	-
4"	G .024	12'-6"	12'-8"	13'-1"	-	-	11'-3"	11'-5"	11'-11"	-	-
	U .032	14'-5"	14'-6"	14'-11"	-	-	12'-11"	13'-1"	13'-7"	-	-
	26ga.	14'-9"	14'-10"	15'-3"	-	-	13'-3"	13'-5"	13'-10"	-	-
6"	G .024	15'-6"	15'-8"	16'-0"	-	-	13'-11"	14'-1"	14'-6"	-	-
	U .032	17'-11"	18'-0"	18'-4"	-	-	16'-1"	16'-3"	16'-7"	-	-
	26ga.	18'-5"	18'-6"	18'-10"	-	-	16'-6"	16'-8"	17'-0"	-	-
8"	G .024	18'-1"	18'-3"	18'-7"	19'-1"	-	16'-3"	16'-5"	16'-9"	-	-
	U .032	20'-11"	20'-11"	21'-3"	21'-9"	-	18'-9"	18'-11"	19'-2"	-	-
	26ga.	21'-1"	21'-2"	21'-5"	21'-11"	-	18'-11"	19'-1"	19'-4"	-	-
Panel Thk.	DL + LL @ 62 lbs. per sq. ft.				DL + LL @ 72 lbs. / sq. ft.				Notes		
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
2"	G .024	6'-11"	7'-2"	-	-	-	6'-5"	-	-	-	-
	U .032	9'-1"	9'-4"	-	-	-	8'-5"	-	-	-	-
	26ga.	9'-5"	9'-8"	-	-	-	8'-9"	-	-	-	-
3"	G .024	9'-4"	9'-7"	-	-	-	8'-8"	8'-11"	-	-	-
	U .032	10'-11"	11'-2"	-	-	-	10'-11"	11'-2"	-	-	-
	26ga.	11'-5"	11'-7"	12'-1"	-	-	12'-1"	12'-3"	12'-9"	-	-
4"	G .024	11'-5"	11'-7"	12'-1"	-	-	10'-3"	10'-9"	11'-0"	-	-
	U .032	13'-2"	13'-4"	13'-9"	-	-	11'-10"	11'-11"	12'-6"	-	-
	26ga.	13'-5"	13'-7"	14'-0"	-	-	12'-1"	12'-3"	12'-9"	-	-
6"	G .024	14'-2"	14'-4"	14'-9"	-	-	12'-9"	12'-11"	13'-4"	-	-
	U .032	16'-4"	16'-6"	16'-10"	-	-	14'-8"	14'-10"	15'-3"	-	-
	26ga.	16'-9"	16'-11"	17'-3"	-	-	15'-1"	15'-3"	15'-7"	-	-
8"	G .024	16'-6"	16'-8"	17'-0"	17'-7"	-	14'-10"	14'-11"	15'-5"	-	-
	U .032	19'-1"	19'-2"	19'-6"	19'-11"	-	17'-2"	17'-3"	17'-7"	-	-
	26ga.	19'-3"	19'-4"	19'-8"	20'-2"	-	17'-3"	17'-5"	17'-9"	-	-



Foam - 2.0# Density EPS.
Aluminum - 3105-H14/H25 Alloy
Steel - ASTM-A726/A 526M-90
Patent # 4,769,963 & 5,086,599

Charts show Maximum Clear Spans for Snap-N-Lock Composite Panels using 2 lb./cu. ft. EPS. Foam, combined Dead/Live Load and/or Snow Load.

Panel Dead Load is calculated at 2 lbs. per sq. ft. The remainder is the Live Load or Snow Load. eg. 22 lbs / sq. ft. is 2 lbs. Dead Load + 20 lbs. Live or Snow Load.

Overhang improves panel span, 4 ft maximum or as listed.

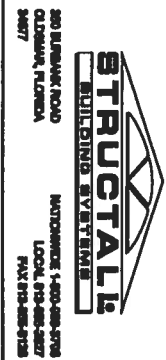
The Thermal Resistance Value of a panel is R-4 per inch of thickness. eg. a 3" panel has a value of R-12

Panels may be used in a wall or roof application.

Maximum Panel Length is 32'-0". On longer clear spans, clear span will be reduced as overhang increases to reflect this limitation.



Half-Snap Composite Panel																
Panel Thk.	Wind Speed - 100 M.P.H.								Wind Speed - 110 M.P.H.							
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
4"	G .024	16'-7"	16'-8"	17'-1"	17'-8"	18'-5"	15'-3"	15'-5"	15'-8"	16'-5"	17'-3"	15'-3"	15'-5"	15'-8"	16'-5"	17'-3"
	U .032	17'-10"	17'-11"	18'-3"	18'-10"	19'-7"	16'-5"	16'-6"	16'-11"	17'-6"	18'-3"	16'-5"	16'-6"	16'-11"	17'-6"	18'-3"
	26ga.	18'-3"	18'-4"	18'-8"	19'-3"	19'-11"	16'-8"	16'-11"	17'-3"	17'-10"	18'-7"	16'-8"	16'-11"	17'-3"	17'-10"	18'-7"
6"	G .024	23'-7"	23'-0"	22'-0"	21'-0"	20'-0"	21'-8"	21'-10"	22'-0"	21'-0"	20'-0"	23'-6"	23'-0"	22'-0"	21'-0"	20'-0"
	U .032	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	23'-1"	23'-0"	22'-0"	21'-0"	20'-0"	23'-6"	23'-0"	22'-0"	21'-0"	20'-0"
	26ga.	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	23'-8"	23'-0"	22'-0"	21'-0"	20'-0"	23'-8"	23'-0"	22'-0"	21'-0"	20'-0"
8"	G .024	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	23'-6"	23'-0"	22'-0"	21'-0"	20'-0"	23'-6"	23'-0"	22'-0"	21'-0"	20'-0"
	U .032	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"
	26ga.	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"
Panel Thk.	Wind Speed - 120 M.P.H.								Wind Speed - 130 M.P.H.							
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
	G .024	14'-2"	14'-4"	14'-9"	15'-5"	16'-4"	12'-11"	13'-1"	13'-7"	14'-3"	14'-3"	12'-11"	13'-1"	13'-7"	14'-3"	14'-3"
	U .032	15'-3"	15'-5"	15'-10"	16'-5"	17'-3"	13'-11"	14'-1"	14'-6"	15'-2"	15'-2"	13'-11"	14'-1"	14'-6"	15'-2"	15'-2"
4"	G .024	15'-8"	15'-9"	16'-2"	16'-9"	17'-7"	14'-3"	14'-5"	14'-10"	15'-6"	15'-6"	14'-3"	14'-5"	14'-10"	15'-6"	15'-6"
	U .032	16'-1"	16'-2"	16'-7"	17'-3"	18'-1"	15'-6"	15'-8"	16'-1"	16'-5"	16'-5"	15'-6"	15'-8"	16'-1"	16'-5"	16'-5"
	26ga.	16'-1"	16'-2"	16'-7"	17'-3"	18'-1"	15'-6"	15'-8"	16'-1"	16'-5"	16'-5"	15'-6"	15'-8"	16'-1"	16'-5"	16'-5"
6"	G .024	20'-3"	20'-4"	20'-7"	21'-0"	20'-0"	18'-6"	18'-7"	18'-11"	19'-5"	19'-5"	18'-6"	18'-7"	18'-11"	19'-5"	19'-5"
	U .032	21'-6"	21'-7"	21'-11"	21'-0"	20'-0"	19'-8"	19'-9"	20'-1"	20'-6"	20'-6"	19'-8"	19'-9"	20'-1"	20'-6"	20'-6"
	26ga.	22'-1"	22'-2"	22'-0"	21'-0"	20'-0"	20'-2"	20'-3"	20'-7"	21'-0"	21'-0"	20'-2"	20'-3"	20'-7"	21'-0"	21'-0"
8"	G .024	21'-10"	21'-11"	22'-0"	21'-0"	20'-0"	18'-11"	20'-0"	20'-4"	20'-10"	20'-10"	18'-11"	20'-0"	20'-4"	20'-10"	20'-10"
	U .032	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	22'-8"	22'-9"	22'-0"	21'-0"	21'-0"	22'-8"	22'-9"	22'-0"	21'-0"	21'-0"
	26ga.	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	22'-11"	22'-11"	22'-0"	21'-0"	21'-0"	22'-11"	22'-11"	22'-0"	21'-0"	21'-0"
Panel Thk.	Wind Speed - 140 M.P.H.								Wind Speed - 150 M.P.H.							
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.
	G .024	10'-0"	10'-3"	10'-10"	11'-8"	12'-10"	10'-0"	10'-3"	10'-10"	11'-6"	11'-6"	10'-0"	10'-3"	10'-10"	11'-6"	11'-6"
	U .032	10'-10"	10'-11"	11'-6"	12'-4"	13'-5"	10'-10"	10'-11"	11'-6"	11'-6"	11'-6"	10'-10"	10'-11"	11'-6"	11'-6"	11'-6"
4"	G .024	11'-1"	11'-3"	11'-9"	12'-7"	13'-8"	11'-1"	11'-3"	11'-9"	11'-9"	11'-9"	11'-1"	11'-3"	11'-9"	11'-9"	11'-9"
	U .032	11'-1"	11'-3"	11'-9"	12'-7"	13'-8"	11'-1"	11'-3"	11'-9"	11'-9"	11'-9"	11'-1"	11'-3"	11'-9"	11'-9"	11'-9"
	26ga.	11'-1"	11'-3"	11'-9"	12'-7"	13'-8"	11'-1"	11'-3"	11'-9"	11'-9"	11'-9"	11'-1"	11'-3"	11'-9"	11'-9"	11'-9"
6"	G .024	14'-4"	14'-5"	14'-10"	15'-6"	16'-5"	14'-4"	14'-5"	14'-10"	14'-10"	14'-10"	14'-4"	14'-5"	14'-10"	14'-10"	14'-10"
	U .032	15'-3"	15'-4"	15'-9"	16'-4"	17'-2"	15'-3"	15'-4"	15'-9"	15'-9"	15'-9"	15'-3"	15'-4"	15'-9"	15'-9"	15'-9"
	26ga.	15'-3"	15'-4"	15'-9"	16'-4"	17'-2"	15'-3"	15'-4"	15'-9"	15'-9"	15'-9"	15'-3"	15'-4"	15'-9"	15'-9"	15'-9"
8"	G .024	15'-5"	15'-7"	15'-11"	16'-7"	17'-5"	15'-5"	15'-7"	15'-11"	15'-11"	15'-11"	15'-5"	15'-7"	15'-11"	15'-11"	15'-11"
	U .032	17'-7"	17'-8"	18'-0"	18'-7"	19'-4"	17'-7"	17'-8"	18'-0"	18'-0"	18'-0"	17'-7"	17'-8"	18'-0"	18'-0"	18'-0"
	26ga.	17'-7"	17'-10"	18'-2"	18'-9"	19'-5"	17'-7"	17'-10"	18'-2"	18'-2"	18'-2"	17'-7"	17'-10"	18'-2"	18'-2"	18'-2"
Notes																
Charts show Maximum Clear Spans for Half-Snap Composite Panels using 1 lb./cu. ft. EPS. Foam used in "Screen Rooms".																
Structures classified as "Screen Rooms" contain solid roofs and at least one solid wall usually the host structure, eg. Attached Screen, Vinyl & Acrylic Rooms Only																
Panel is used O.S.B. side up only. Overhang improves panel span, 4 ft. maximum or as listed.																
The Thermal Resistance Value of a panel is R-4 per inch of thickness, eg. a 4" panel has a value of R-16																
Panels may be used in a wall or roof application.																
O.S.B. Skin to be fastened with #8 x 1 1/2" Wd. Screws @ 6" O.C. or equal.																
O.S.B. Skin to be weatherproofed w/ a moisture barrier of 2 overlapping layers of 15# building felt minimum.																
For Maximum Panel Clear Spans for 123 MPH Wind Speed, reduce values listed in 120 MPH Wind Speed by multiplying by 0.98																
Spans listed are for Exposure B.																
For Maximum Panel Clear Spans for Exposure C, reduce values listed by multiplying by 0.85																
Maximum Panel Length is 24'-0". On longer clear spans, clear span will be reduced as overhang increases to reflect this limitation.																



"Half-Snap" Panel Spans "Screen Rooms"

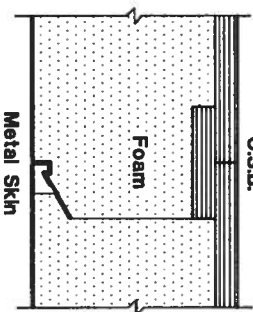
STRUCTALL BUILDING SYSTEMS STANDARD ENGINEERING

Engineered by LAWRENCE E. BENNETT P.E.

P.O. BOX 4368, S. Daytona, FL 32121 Tel. (386) 767-4774

Scale None

Page

Half-Snap Composite Panel																
Panel Thk.	Wind Speed - 100 M.P.H.								Wind Speed - 110 M.P.H.							
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.					
4"	G .024	17'-5"	17'-6"	17'-10"	18'-5"	19'-2"	17'-5"	17'-6"	17'-10"	18'-5"	19'-2"					
	U .032	18'-9"	18'-10"	19'-2"	19'-8"	20'-0"	18'-9"	18'-10"	19'-2"	19'-8"	20'-0"					
	U .032	18'-9"	18'-10"	19'-2"	19'-8"	20'-0"	18'-9"	18'-10"	19'-2"	19'-8"	20'-0"					
	26ga.	19'-2"	19'-3"	19'-7"	20'-1"	20'-0"	19'-2"	19'-3"	19'-7"	20'-1"	20'-0"					
6"	G .024	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"					
	U .032	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"					
	U .032	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"					
	26ga.	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"					
8"	G .024	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"					
	U .032	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"					
	U .032	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"					
	26ga.	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"					
Panel Thk.	Wind Speed - 120 M.P.H.								Wind Speed - 130 M.P.H.							
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.					
	G .024	16'-7"	16'-8"	17'-1"	17'-8"	18'-5"	14'-8"	14'-10"	15'-3"	15'-11"	-					
	U .032	17'-10"	17'-11"	18'-3"	18'-10"	19'-7"	15'-10"	15'-11"	16'-4"	16'-11"	-					
4"	G .024	18'-3"	18'-4"	18'-8"	18'-3"	19'-11"	16'-2"	16'-4"	16'-8"	17'-3"	-					
	U .032	18'-3"	18'-4"	18'-8"	18'-3"	19'-11"	16'-2"	16'-4"	16'-8"	17'-3"	-					
	U .032	18'-3"	18'-4"	18'-8"	18'-3"	19'-11"	16'-2"	16'-4"	16'-8"	17'-3"	-					
	26ga.	18'-3"	18'-4"	18'-8"	18'-3"	19'-11"	16'-2"	16'-4"	16'-8"	17'-3"	-					
6"	G .024	23'-7"	23'-0"	22'-0"	21'-0"	20'-0"	20'-11"	21'-0"	21'-4"	21'-0"	-					
	U .032	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	22'-3"	22'-4"	22'-0"	21'-0"	-					
	U .032	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	22'-3"	22'-4"	22'-0"	21'-0"	-					
	26ga.	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	22'-10"	22'-11"	22'-0"	21'-0"	-					
8"	G .024	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	24'-0"	23'-0"	22'-0"	21'-0"	-					
	U .032	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	24'-0"	23'-0"	22'-0"	21'-0"	-					
	U .032	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	24'-0"	23'-0"	22'-0"	21'-0"	-					
	26ga.	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	24'-0"	23'-0"	22'-0"	21'-0"	-					
Panel Thk.	Wind Speed - 140 M.P.H.								Wind Speed - 150 M.P.H.							
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.					
	G .024	10'-0"	10'-3"	10'-10"	11'-6"	12'-10"	10'-0"	10'-3"	10'-10"	-	-					
	U .032	10'-10"	10'-11"	11'-6"	12'-4"	13'-5"	10'-10"	10'-11"	11'-6"	-	-					
4"	G .024	11'-1"	11'-3"	11'-9"	12'-7"	13'-8"	11'-1"	11'-3"	11'-9"	-	-					
	U .032	11'-1"	11'-3"	11'-9"	12'-7"	13'-8"	11'-1"	11'-3"	11'-9"	-	-					
	U .032	11'-1"	11'-3"	11'-9"	12'-7"	13'-8"	11'-1"	11'-3"	11'-9"	-	-					
	26ga.	11'-1"	11'-3"	11'-9"	12'-7"	13'-8"	11'-1"	11'-3"	11'-9"	-	-					
6"	G .024	14'-4"	14'-5"	14'-10"	15'-6"	-	14'-4"	14'-5"	14'-10"	-	-					
	U .032	15'-3"	15'-4"	15'-9"	16'-4"	-	15'-3"	15'-4"	15'-9"	-	-					
	U .032	15'-3"	15'-4"	15'-9"	16'-4"	-	15'-3"	15'-4"	15'-9"	-	-					
	26ga.	15'-7"	15'-9"	16'-1"	16'-8"	-	15'-7"	15'-9"	16'-1"	-	-					
8"	G .024	15'-5"	15'-7"	15'-11"	16'-7"	-	15'-5"	15'-7"	15'-11"	-	-					
	U .032	17'-7"	17'-8"	18'-0"	18'-7"	-	17'-7"	17'-8"	18'-0"	-	-					
	U .032	17'-7"	17'-8"	18'-0"	18'-7"	-	17'-7"	17'-8"	18'-0"	-	-					
	26ga.	17'-9"	17'-10"	18'-2"	18'-9"	-	17'-9"	17'-10"	18'-2"	-	-					
																
Foam - 10# Density EPS. Aluminum - 3105-H14/H25 Alloy Steel - A517M-A126/A 526M-90 O.S.B. - 7/16", Exposure 1 Patent # 4,769,963 & 5,086,599																
Notes																
Charts show Maximum Clear Spans for Half-Snap Composite Panels using 1 lb./cu. ft EPS. Foam used in "Open" Structures. Structures classified as "Open" contain solid roofs with no solid walls, only post and beam roof supports, eg. Free Standing Carports, Free Standing Patio Covers & Free Standing Walkway Covers. Panel is used O.S.B. side up only. Overhang improves panel span, 4 ft. maximum or as listed. The Thermal Resistance Value of a panel is R-4 per inch of thickness, eg. a 4" panel has a value of R-16 Panels may be used in a wall or roof application. O.S.B. Skin to be fastened with #8 x 1 1/2" Wd. Screws @ 6" O.C. or equal. O.S.B. Skin to be weatherproofed w/ a moisture barrier of 2 overlapping layers of 15# building felt minimum. For Maximum Panel Clear Spans for 123 MPH Wind Speed, reduce values listed in 120 MPH Wind Speed by multiplying by 0.98 Spans listed are for Exposure B. For Maximum Panel Clear Spans for Exposure C, reduce values listed by multiplying by 0.85 Maximum Panel Length is 24'-0". On longer clear spans, clear span will be reduced as overhang increases to reflect this limitation.																



"Half-Snap" Panel Spans "Open" Structures

STRUCTALL BUILDING SYSTEMS STANDARD ENGINEERING

Engineered by LAWRENCE E. BENNETT P.E.

P.O. BOX 4368, S. Daytona, FL 32121 Tel. (386) 767-4774

Scale None

Page

Panel Spancharts
Half Snap Composite Panels
STANDARD ENGINEERING BOOK
Engineered by Lawrence E. Bennett

350 BURBANK ROAD
OLDSMAR, FLORIDA
34677

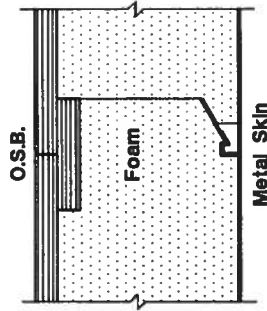


NATIONWIDE 1-800-889-3708
LOCAL 813-866-2827
FAX 813-866-6128

Project No. 101ENR
Date: 01-01-03
Drawn: SRG
Reviewed:



Panel Thk.		Wind Speed - 90 & 100 M.P.H.					Wind Speed - 110 M.P.H.					Notes	
		Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.		
4"	G	.024	12'-11"	13'-1"	13'-7"	14'-3"	15'-3"	12'-0"	12'-2"	12'-8"	13'-5"	14'-5"	Charts show Maximum Clear Spans for Half-Snap Composite Panels using 1 lb./cu. ft. EPS. Foam used in "Enclosed" Structures. Structures classified as "Enclosed" contain solid walls and roofs with Glass glazed windows & doors in them. eg. Glass Rooms, Additions, Garages & Houses. Panel is used O.S.B. side up only. Overhang improves panel span, 4 ft maximum or as listed. The Thermal Resistance Value of a panel is R-4 per inch of thickness. eg. a 4" panel has a value of R-16 Panels may be used in a wall or roof application. O.S.B. Skin to be fastened with #8 x 1 1/2" Wd. Screws @ 6" O.C. or equal. O.S.B. Skin to be weatherproofed w/ a moisture barrier of 2 overlapping layers of 15# building felt minimum. For Maximum Panel Clear Spans for 123 MPH Wind Speed, reduce values listed in 120 MPH Wind Speed by multiplying by 0.98 Spans listed are for Exposure B. For Maximum Panel Clear Spans for Exposure C, reduce values listed by multiplying by 0.85 Maximum Panel Length is 24'-0". On longer clear spans, clear span will be reduced as overhang increases to reflect this limitation.
	U	.032	13'-11"	14'-1"	14'-6"	15'-2"	16'-1"	12'-11"	13'-1"	13'-6"	14'-3"	15'-2"	
	26ga.	14'-3"	14'-5"	14'-10"	15'-6"	16'-4"	13'-3"	13'-4"	13'-10"	14'-6"	15'-5"		
6"	G	.024	18'-6"	18'-7"	18'-11"	19'-5"	20'-0"	17'-1"	17'-3"	17'-7"	18'-1"	18'-10"	
	U	.032	19'-8"	19'-9"	20'-1"	20'-6"	20'-0"	18'-2"	18'-4"	18'-7"	19'-2"	19'-10"	
	26ga.	20'-2"	20'-3"	20'-7"	21'-0"	20'-0"	18'-6"	18'-8"	19'-1"	19'-7"	20'-0"		
8"	G	.024	19'-11"	20'-0"	20'-4"	20'-10"	20'-0"	18'-5"	18'-7"	18'-11"	19'-5"	20'-0"	
	U	.032	22'-8"	22'-9"	22'-0"	21'-0"	20'-0"	21'-0"	21'-1"	21'-5"	21'-0"	20'-0"	
	26ga.	22'-11"	22'-11"	22'-0"	21'-0"	20'-0"	21'-2"	21'-3"	21'-7"	21'-0"	20'-0"		
Panel Thk.		Wind Speed - 120 M.P.H.					Wind Speed - 130 M.P.H.						
		Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.		
4"	G	.024	11'-0"	11'-2"	11'-8"	12'-6"	13'-7"	10'-0"	10'-3"	10'-10"	-	-	
	U	.032	11'-10"	12'-0"	12'-6"	13'-3"	14'-3"	10'-10"	10'-11"	11'-6"	-	-	
	26ga.	12'-1"	12'-3"	12'-9"	13'-6"	14'-6"	11'-1"	11'-3"	11'-9"	-	-		
6"	G	.024	15'-8"	15'-10"	16'-2"	16'-9"	17'-7"	14'-4"	14'-5"	14'-10"	15'-6"	-	
	U	.032	16'-8"	16'-9"	17'-2"	17'-9"	18'-6"	15'-3"	15'-4"	15'-9"	16'-4"	-	
	26ga.	17'-1"	17'-3"	17'-7"	18'-2"	18'-11"	15'-7"	15'-9"	16'-1"	16'-9"	-		
8"	G	.024	18'-11"	17'-0"	17'-5"	17'-11"	18'-9"	15'-5"	15'-7"	15'-11"	16'-7"	-	
	U	.032	19'-3"	19'-4"	19'-8"	20'-2"	20'-0"	17'-7"	17'-8"	18'-0"	18'-7"	-	
	26ga.	19'-5"	19'-6"	19'-10"	20'-4"	20'-0"	17'-9"	17'-10"	18'-2"	18'-9"	-		
Panel Thk.		Wind Speed - 140 M.P.H.					Wind Speed - 150 M.P.H.						
		Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.		
4"	G	.024	9'-4"	9'-6"	10'-1"	-	-	8'-8"	8'-11"	-	-	-	
	U	.032	10'-0"	10'-2"	10'-9"	-	-	9'-4"	9'-7"	-	-	-	
	26ga.	10'-3"	10'-5"	10'-11"	-	-	9'-7"	9'-9"	-	-	-		
6"	G	.024	13'-3"	13'-5"	13'-10"	-	-	12'-5"	12'-7"	13'-0"	-	-	
	U	.032	14'-1"	14'-3"	14'-8"	-	-	13'-2"	13'-4"	13'-9"	-	-	
	26ga.	14'-6"	14'-7"	15'-0"	-	-	13'-6"	13'-8"	14'-1"	-	-		
8"	G	.024	14'-4"	14'-5"	14'-10"	15'-6"	-	13'-4"	13'-6"	13'-11"	-	-	
	U	.032	16'-3"	16'-5"	16'-9"	17'-4"	-	15'-3"	15'-4"	15'-9"	-	-	
	26ga.	16'-5"	16'-8"	16'-11"	17'-6"	-	15'-4"	15'-6"	15'-10"	-	-		



Foam - 10# Density EPS.
Aluminum - 3105-H14/H25 Alloy
Steel - ASTM-A286/A 528M-90
O.S.B. - 7/16", Exposure 1
Patent # 4,769,963 & 5,086,599

Notes

Charts show Maximum Clear Spans for Half-Snap Composite Panels using 1 lb./cu. ft EPS. Foam used in "Enclosed" Structures.

Structures classified as "Enclosed" contain solid walls and roofs with glass glazed windows & doors in them. eg. Glass Rooms, Additions, Garages & Houses.

Panel is used O.S.B. side up only. Overhang improves panel span, 4 ft. maximum or as listed.

The Thermal Resistance Value of a panel is R-4 per inch of thickness. eg. a 4" panel has a value of R-16

Panels may be used in a wall or roof application. O.S.B. Skin to be fastened with #8 x 1 1/2" Wd. Screws @ 6" O.C.

or equal. O.S.B. Skin to be weatherproofed w/ a moisture barrier of 2 overlapping layers of 15# building felt minimum. For Maximum Panel Clear Spans for 123 MPH Wind Speed, reduce values listed in 120 MPH Wind Speed by multiplying by 0.98

Spans listed are for Exposure B.

For Maximum Panel Clear Spans for Exposure C, reduce values listed by multiplying by 0.95

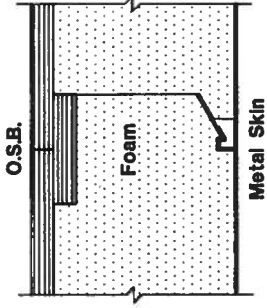
Maximum Panel Length is 24'-0". On longer clear spans, clear span will be reduced as overhang increases to reflect this limitation.

"Half-Snap" Panel Spans "Enclosed" Structures
STRUCTALL BUILDING SYSTEMS STANDARD ENGINEERING
Engineered by LAWRENCE E. BENNETT P.E.
P.O. BOX 4368, S. Daytona, FL 32121, Tel. (386) 767-4774

Scale
None

Page

Panel Thk.	Wind Speed - 90 & 100 M.P.H.					Wind Speed - 110 M.P.H.					Notes	
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.		4 FT.
4"	G	.024	11'-6"	11'-8"	12'-2"	12'-11"	13'-11"	10'-5"	10'-7"	11'-2"	12'-0"	13'-1"
	U	.032	12'-4"	12'-6"	12'-11"	13'-9"	14'-8"	11'-2"	11'-4"	11'-11"	12'-8"	13'-9"
	26ga.	12'-7"	12'-9"	13'-3"	13'-11"	14'-11"	14'-11"	11'-5"	11'-7"	12'-1"	12'-11"	13'-11"
6"	G	.024	16'-4"	16'-5"	16'-10"	17'-5"	18'-2"	14'-10"	14'-11"	15'-4"	15'-11"	16'-10"
	U	.032	17'-5"	17'-6"	17'-10"	18'-5"	19'-2"	15'-9"	15'-11"	16'-3"	16'-10"	17'-8"
	26ga.	17'-10"	17'-11"	18'-3"	18'-10"	19'-7"	19'-7"	16'-2"	16'-3"	16'-8"	17'-3"	18'-0"
8"	G	.024	17'-8"	17'-9"	18'-1"	18'-8"	19'-4"	15'-11"	16'-1"	16'-8"	17'-1"	17'-11"
	U	.032	20'-1"	20'-2"	20'-6"	20'-11"	21'-5"	18'-2"	18'-4"	18'-7"	19'-2"	19'-10"
	26ga.	20'-3"	20'-4"	20'-8"	21'-0"	21'-0"	20'-0"	18'-4"	18'-6"	18'-9"	19'-4"	20'-0"
Panel Thk.	Wind Speed - 120 M.P.H.					Wind Speed - 130 M.P.H.					Notes	
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.		4 FT.
4"	G	.024	9'-5"	9'-8"	10'-3"	11'-2"	12'-4"	8'-10"	9'-0"	9'-8"	-	-
	U	.032	10'-2"	10'-4"	10'-11"	11'-9"	12'-11"	9'-6"	9'-8"	10'-3"	-	-
	26ga.	10'-5"	10'-7"	11'-2"	11'-11"	13'-1"	13'-1"	9'-8"	9'-11"	10'-8"	-	-
6"	G	.024	13'-5"	13'-7"	14'-0"	14'-9"	15'-8"	12'-7"	12'-8"	13'-2"	13'-11"	-
	U	.032	14'-4"	14'-5"	14'-10"	15'-6"	16'-5"	13'-4"	13'-6"	13'-11"	14'-8"	-
	26ga.	14'-8"	14'-10"	15'-2"	15'-10"	16'-9"	16'-9"	13'-8"	13'-10"	14'-3"	14'-11"	-
8"	G	.024	14'-6"	14'-8"	15'-1"	15'-8"	16'-7"	13'-7"	13'-8"	14'-1"	14'-10"	-
	U	.032	16'-6"	16'-8"	16'-11"	17'-7"	18'-4"	15'-5"	15'-6"	15'-11"	16'-8"	-
	26ga.	16'-8"	16'-9"	17'-2"	17'-8"	18'-6"	18'-6"	15'-7"	15'-8"	16'-1"	16'-8"	-
Panel Thk.	Wind Speed - 140 M.P.H.					Wind Speed - 150 M.P.H.					Notes	
	Overhang	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	0 FT.	1 FT.	2 FT.	3 FT.		4 FT.
4"	G	.024	7'-9"	8'-0"	8'-1"	-	-	7'-3"	7'-7"	-	-	-
	U	.032	8'-9"	8'-11"	9'-7"	-	-	7'-10"	8'-1"	-	-	-
	26ga.	8'-11"	9'-2"	9'-9"	-	-	8'-0"	8'-3"	-	-	-	
6"	G	.024	11'-7"	11'-9"	12'-3"	-	-	10'-10"	11'-1"	11'-7"	-	-
	U	.032	12'-3"	12'-5"	12'-11"	-	-	11'-7"	11'-9"	12'-3"	-	-
	26ga.	12'-7"	12'-9"	13'-3"	-	-	11'-10"	12'-0"	12'-6"	-	-	
8"	G	.024	12'-6"	12'-8"	13'-1"	13'-10"	-	11'-9"	11'-11"	12'-5"	-	-
	U	.032	14'-2"	14'-4"	14'-9"	15'-5"	-	13'-4"	13'-6"	13'-11"	-	-
	26ga.	14'-4"	14'-5"	14'-10"	15'-6"	-	13'-6"	13'-7"	14'-1"	-	-	



Foam - 10# Density EPS.
Aluminum - 3105-H14/H25 Alloy
Steel - ASTM-A286/A 528M-90
O.S.B. - 7/16", Exposure 1
Patent # 4,769,963 & 5,086,599

Notes

Charts show Maximum Clear Spans for Half-Snap Composite Panels using 1 lb./cu. ft EPS. Foam used in "Partially Enclosed" Structures.

Structures classified as "Partially Enclosed" contain solid walls and roofs with glass glazed windows & doors in them. eg. Glass Rooms, Additions, Garages & Houses. Or solid roofs with at least one solid wall usually the host structure. eg. Attached Carports, Attached Patio Covers & Attached Walkway Covers. This chart is used as an alternative to installing impact glass or shutters in wind borne debris areas and accounts for added internal building pressures.

Panel is used O.S.B. side up only. Overhang improves panel span, 4 ft. maximum or as listed.

The Thermal Resistance Value of a panel is R-4 per inch of thickness. eg. a 4" panel has a value of R-16. Panels may be used in a wall or roof application.

O.S.B. Skin to be fastened with #8 x 1 1/2" Wd. Screws @ 6" O.C. or equal. O.S.B. Skin to be weatherproofed w/ a moisture barrier of 2 overlapping layers of 15# building felt minimum.

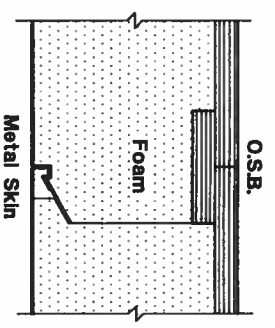
For Maximum Panel Clear Spans for 123 MPH Wind Speed, reduce values listed in 120 MPH Wind Speed by multiplying by 0.98

Spans listed are for Exposure B.

For Maximum Panel Clear Spans for Exposure C, reduce values listed by multiplying by 0.95

Maximum Panel Length is 24'-0". On longer clear spans, clear span will be reduced as overhang increases to reflect this limitation.

"Half-Snap" Panel Spans "Partially Enclosed"
STRUCTALL

Half-Snap Composite Panel									
Panel Thk.	DL + LL @ 23 lbs. per sq. ft.				DL + LL @ 33 lbs. / sq. ft.				Notes
Overhang	0 FT.	1 FT.	2 FT.	3 FT.	0 FT.	1 FT.	2 FT.	3 FT.	
4"	0.024 11'-6"	11'-8"	12'-2"	12'-11"	9'-7"	9'-9"	10'-5"	11'-4"	
0.032 12'-4"	12'-6"	12'-11"	13'-9"	14'-8"	10'-4"	10'-6"	11'-1"	11'-11"	 O.S.B. Foam Metal Skin
0.26ga 12'-7"	12'-9"	13'-3"	13'-11"	14'-11"	10'-6"	10'-9"	11'-3"	12'-2"	
6"	0.024 16'-4"	16'-5"	16'-10"	17'-5"	13'-6"	13'-9"	14'-3"	14'-11"	Foam - 10# Density E.P.S. Aluminum - 3105-H14/H25 Alloy Steel - ASTM-A1726/A 526M-90 O.S.B. - 7/16", Exposure 1 Patent # 4,769,963 & 5,096,599
0.032 17'-5"	17'-6"	17'-10"	18'-5"	19'-2"	14'-6"	14'-8"	15'-1"	15'-8"	
0.26ga 17'-10"	17'-11"	18'-3"	18'-10"	19'-7"	14'-11"	15'-0"	15'-5"	16'-1"	
8"	0.024 17'-8"	17'-9"	18'-1"	18'-8"	14'-8"	14'-10"	15'-3"	15'-11"	Charts show Maximum Clear Spans for Half-Snap Composite Panels using 1 lb./cu. ft. E.P.S. Foam, combined Dead/Live Load and/or Snow Load. Panel Dead Load is calculated at 3 lbs. per sq. ft. The remainder is the Live Load or Snow Load. eg. 23 lbs / sq. ft. is 3 lbs. Dead Load + 20 lbs. Live or Snow Load. Panel is used O.S.B. side up only. Overhang improves panel span, 4 ft. maximum or as listed. The Thermal Resistance Value of a panel is R-4 per inch of thickness. eg. a 4" panel has a value of R-16 Panels may be used in a wall or roof application. O.S.B. Skin to be fastened with #8 x 1 1/2" Wd. Screws @ 6" O.C. or equal. O.S.B. Skin to be waterproofed w/ a moisture barrier of 2 overlapping layers of 15# building felt minimum. Maximum Panel Length is 24'-0". On longer clear spans, clear span will be reduced as overhang increases to reflect this limitation.
0.032 20'-1"	20'-2"	20'-6"	20'-11"	20'-0"	16'-9"	16'-10"	17'-3"	17'-10"	
0.26ga 20'-3"	20'-4"	20'-8"	21'-0"	20'-0"	16'-11"	17'-0"	17'-4"	18'-6"	
Panel Thk.	DL + LL @ 43 lbs. per sq. ft.				DL + LL @ 53 lbs. / sq. ft.				Notes
Overhang	0 FT.	1 FT.	2 FT.	3 FT.	0 FT.	1 FT.	2 FT.	3 FT.	
4"	0.024 8'-5"	8'-7"	8'-4"	-	7'-7"	7'-10"	8'-7"	-	
0.032 9'-0"	9'-3"	9'-10"	-	-	8'-2"	8'-4"	9'-1"	-	Charts show Maximum Clear Spans for Half-Snap Composite Panels using 1 lb./cu. ft. E.P.S. Foam, combined Dead/Live Load and/or Snow Load. Panel Dead Load is calculated at 3 lbs. per sq. ft. The remainder is the Live Load or Snow Load. eg. 23 lbs / sq. ft. is 3 lbs. Dead Load + 20 lbs. Live or Snow Load. Panel is used O.S.B. side up only. Overhang improves panel span, 4 ft. maximum or as listed. The Thermal Resistance Value of a panel is R-4 per inch of thickness. eg. a 4" panel has a value of R-16 Panels may be used in a wall or roof application. O.S.B. Skin to be fastened with #8 x 1 1/2" Wd. Screws @ 6" O.C. or equal. O.S.B. Skin to be waterproofed w/ a moisture barrier of 2 overlapping layers of 15# building felt minimum. Maximum Panel Length is 24'-0". On longer clear spans, clear span will be reduced as overhang increases to reflect this limitation.
0.26ga 9'-3"	9'-5"	10'-1"	-	-	8'-4"	8'-7"	9'-3"	-	
6"	0.024 11'-11"	12'-1"	12'-7"	13'-4"	10'-8"	10'-11"	11'-6"	-	Charts show Maximum Clear Spans for Half-Snap Composite Panels using 1 lb./cu. ft. E.P.S. Foam, combined Dead/Live Load and/or Snow Load. Panel Dead Load is calculated at 3 lbs. per sq. ft. The remainder is the Live Load or Snow Load. eg. 23 lbs / sq. ft. is 3 lbs. Dead Load + 20 lbs. Live or Snow Load. Panel is used O.S.B. side up only. Overhang improves panel span, 4 ft. maximum or as listed. The Thermal Resistance Value of a panel is R-4 per inch of thickness. eg. a 4" panel has a value of R-16 Panels may be used in a wall or roof application. O.S.B. Skin to be fastened with #8 x 1 1/2" Wd. Screws @ 6" O.C. or equal. O.S.B. Skin to be waterproofed w/ a moisture barrier of 2 overlapping layers of 15# building felt minimum. Maximum Panel Length is 24'-0". On longer clear spans, clear span will be reduced as overhang increases to reflect this limitation.
0.032 12'-8"	12'-10"	13'-4"	14'-1"	-	11'-5"	11'-7"	12'-2"	-	
0.26ga 13'-1"	13'-2"	13'-8"	14'-4"	-	11'-9"	11'-11"	12'-5"	-	
8"	0.024 12'-11"	13'-1"	13'-6"	14'-3"	11'-7"	11'-9"	12'-3"	-	Charts show Maximum Clear Spans for Half-Snap Composite Panels using 1 lb./cu. ft. E.P.S. Foam, combined Dead/Live Load and/or Snow Load. Panel Dead Load is calculated at 3 lbs. per sq. ft. The remainder is the Live Load or Snow Load. eg. 23 lbs / sq. ft. is 3 lbs. Dead Load + 20 lbs. Live or Snow Load. Panel is used O.S.B. side up only. Overhang improves panel span, 4 ft. maximum or as listed. The Thermal Resistance Value of a panel is R-4 per inch of thickness. eg. a 4" panel has a value of R-16 Panels may be used in a wall or roof application. O.S.B. Skin to be fastened with #8 x 1 1/2" Wd. Screws @ 6" O.C. or equal. O.S.B. Skin to be waterproofed w/ a moisture barrier of 2 overlapping layers of 15# building felt minimum. Maximum Panel Length is 24'-0". On longer clear spans, clear span will be reduced as overhang increases to reflect this limitation.
0.032 14'-8"	14'-10"	15'-3"	15'-10"	-	13'-3"	13'-4"	13'-10"	-	
0.26ga 14'-10"	14'-11"	15'-4"	15'-11"	-	13'-4"	13'-6"	13'-11"	-	

Wind Speed - 100 M.P.H.					Wind Speed - 110 M.P.H.							
Panel Thickness	Deflection	Overhang				Deflection	Overhang					
		None	1 FT.	2 FT.	3 FT.		4 FT.	None	1 FT.	2 FT.	3 FT.	4 FT.
4 1/2"	L/180	16'-0"	16'-1"	16'-6"	17'-4"	18'-4"	L/180	15'-3"	15'-4"	15'-9"	16'-7"	17'-7"
	L/240	14'-7"	14'-8"	15'-1"	15'-11"	16'-11"	L/240	13'-10"	13'-11"	14'-4"	15'-2"	16'-2"
	L/360	12'-9"	12'-10"	13'-3"	14'-1"	15'-1"	L/360	12'-1"	12'-2"	12'-7"	13'-5"	14'-5"
6 1/2"	L/180	18'-7"	18'-8"	19'-1"	19'-11"	20'-0"	L/180	17'-8"	17'-9"	18'-2"	19'-0"	20'-0"
	L/240	16'-11"	16'-11"	17'-5"	18'-3"	19'-3"	L/240	16'-1"	16'-2"	16'-7"	17'-5"	18'-5"
	L/360	14'-9"	14'-10"	15'-3"	16'-1"	17'-1"	L/360	14'-0"	14'-1"	14'-6"	15'-4"	16'-4"
8 1/4"	L/180	21'-4"	21'-5"	21'-10"	21'-0"	20'-0"	L/180	20'-3"	20'-4"	20'-9"	21'-0"	20'-0"
	L/240	19'-4"	19'-5"	19'-10"	21'-0"	20'-0"	L/240	18'-5"	18'-6"	18'-11"	19'-9"	20'-0"
	L/360	16'-11"	16'-11"	17'-5"	18'-3"	19'-3"	L/360	16'-1"	16'-2"	16'-7"	17'-5"	18'-5"
10 1/4"	L/180	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"	L/180	24'-0"	23'-0"	22'-0"	21'-0"	20'-0"
	L/240	23'-8"	23'-0"	22'-0"	21'-0"	20'-0"	L/240	22'-6"	22'-7"	22'-0"	21'-0"	20'-0"
	L/360	20'-8"	20'-9"	22'-0"	21'-0"	20'-0"	L/360	19'-8"	19'-9"	20'-2"	20'-11"	20'-0"

Wind Speed - 120 M.P.H.					Wind Speed - 130 M.P.H.							
Panel Thickness	Deflection	Overhang				Deflection	Overhang					
		None	1 FT.	2 FT.	3 FT.		4 FT.	None	1 FT.	2 FT.	3 FT.	4 FT.
4 1/2"	L/180	14'-4"	14'-5"	14'-10"	15'-8"	16'-8"	L/180	13'-6"	13'-7"	14'-0"	14'-10"	-
	L/240	13'-0"	13'-1"	13'-6"	14'-4"	15'-4"	L/240	12'-3"	12'-4"	12'-9"	13'-7"	-
	L/360	11'-5"	11'-6"	11'-11"	12'-8"	13'-8"	L/360	10'-9"	10'-10"	11'-3"	12'-1"	-
6 1/2"	L/180	16'-8"	16'-9"	17'-2"	18'-0"	19'-0"	L/180	15'-8"	15'-9"	16'-2"	17'-0"	-
	L/240	15'-2"	15'-3"	15'-8"	16'-6"	17'-6"	L/240	14'-3"	14'-4"	14'-9"	15'-7"	-
	L/360	13'-3"	13'-4"	13'-9"	14'-7"	15'-7"	L/360	12'-5"	12'-6"	12'-11"	13'-9"	-
8 1/4"	L/180	19'-1"	19'-2"	19'-7"	20'-5"	21'-5"	L/180	17'-11"	18'-1"	18'-6"	19'-4"	-
	L/240	17'-4"	17'-5"	17'-10"	18'-8"	19'-8"	L/240	16'-4"	16'-5"	16'-10"	17'-8"	-
	L/360	15'-2"	15'-3"	15'-8"	16'-6"	17'-6"	L/360	14'-3"	14'-4"	14'-9"	15'-7"	-
10 1/4"	L/180	23'-5"	23'-0"	22'-0"	21'-0"	20'-0"	L/180	22'-0"	22'-1"	22'-6"	23'-4"	-
	L/240	21'-3"	21'-4"	21'-9"	21'-0"	20'-0"	L/240	19'-11"	20'-1"	20'-6"	21'-4"	-
	L/360	18'-7"	18'-8"	19'-1"	19'-11"	20'-0"	L/360	17'-6"	17'-7"	17'-11"	18'-10"	-

Wind Speed - 140 M.P.H.					Wind Speed - 150 M.P.H.							
Panel Thickness	Deflection	Overhang				Deflection	Overhang					
		None	1 FT.	2 FT.	3 FT.		4 FT.	None	1 FT.	2 FT.	3 FT.	4 FT.
4 1/2"	L/180	12'-10"	12'-11"	13'-4"	-	-	L/180	12'-3"	12'-4"	-	-	-
	L/240	11'-8"	11'-9"	12'-2"	-	-	L/240	11'-2"	11'-3"	-	-	-
	L/360	10'-2"	10'-3"	10'-8"	-	-	L/360	9'-9"	9'-10"	-	-	-
6 1/2"	L/180	14'-11"	14'-11"	15'-5"	-	-	L/180	14'-3"	14'-4"	14'-9"	-	-
	L/240	13'-7"	13'-8"	14'-1"	-	-	L/240	12'-11"	13'-0"	13'-5"	-	-
	L/360	11'-10"	11'-11"	12'-4"	-	-	L/360	11'-4"	11'-5"	11'-10"	-	-
8 1/4"	L/180	17'-1"	17'-2"	17'-7"	-	-	L/180	16'-4"	16'-5"	16'-10"	-	-
	L/240	15'-6"	15'-7"	16'-0"	-	-	L/240	14'-10"	14'-11"	15'-4"	-	-
	L/360	13'-7"	13'-8"	14'-1"	-	-	L/360	12'-11"	13'-0"	13'-5"	-	-
10 1/4"	L/180	20'-11"	20'-11"	21'-5"	-	-	L/180	19'-11"	20'-1"	20'-6"	-	-
	L/240	18'-11"	19'-1"	19'-6"	-	-	L/240	18'-2"	18'-3"	18'-8"	-	-
	L/360	16'-7"	16'-8"	17'-1"	-	-	L/360	15'-10"	15'-11"	16'-4"	-	-

Double OSB. Composite Panel				

Notes				
Charts show Maximum Clear Spans for Double OSB Composite Panels using 1 lb./cu. ft EPS. Foam used in "Enclosed" Structures.				
Structures classified as "Enclosed" contain solid walls and roofs with glass glazed windows & doors in them, eg. Glass Rooms, Additions, Garages & Houses.				
Overhang improves panel span, 4 ft. max. for roofs, 2 ft. max. for floors.				
The Thermal Resistance Value of a panel is R-4 per inch of thickness, eg. a 1/2" panels R-value is R-16.				
Panels may be used in a floor, wall or roof application.				
O.S.B. Skin to be fastened with 5/8" Crown x 1 1/2" x 18ga. Staples @ 6" O.C. or equal.				
O.S.B. Skin to be weatherproofed w/ a moisture barrier of 2 overlapping layers of 15# building felt minimum.				
For Maximum Panel Clear Spans for 123 MPH Wind Speed, reduce values listed in 120 MPH Wind Speed by multiplying by 0.98				
Spans listed are for Exposure B.				
For Maximum Panel Clear Spans for Exposure C, reduce values listed by multiplying by 0.85				
Maximum Panel Length is 24'-0". On longer clear spans, clear span will be reduced as overhang increases to reflect this limitation.				

Scale		None	
Page 1			

STRUC-TAL

BUILDING SYSTEMS

289 BURNHAM ROAD
CLEARWATER, FLORIDA 34617

WINDCHARGE 1-800-888-0706
LOCAL 852-85-4877
FAX 852-85-0158

Double OSB" Panel Spans "Enclosed" Structures

STRUCTURAL BUILDING SYSTEMS STANDARD ENGINEERING
Engineered by LAWRENCE E. BENNETT P.E.
P.O. BOX 4368, S. Daytona, FL 32121, Tel. (386) 767-4774

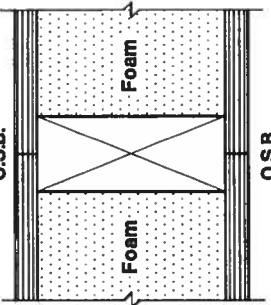
Scale

None

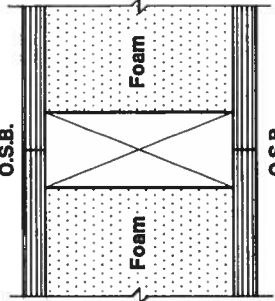
Page 1



Wind Speed - 100 M.P.H.		Wind Speed - 110 M.P.H.				Double O.S.B. Composite Panel						
Panel Thickness	Deflection	Overhang				Deflection	Overhang					
		None	1 FT.	2 FT.	3 FT.		4 FT.	None	1 FT.	2 FT.	3 FT.	4 FT.
4 1/2"	L/180	14'-9"	14'-10"	15'-3"	16'-1"	17'-1"	L/180	13'-10"	13'-11"	14'-4"	15'-2"	16'-2"
	L/240	13'-5"	13'-6"	13'-11"	14'-9"	15'-9"	L/240	12'-7"	12'-8"	13'-1"	13'-11"	14'-11"
	L/360	11'-9"	11'-10"	12'-3"	13'-1"	14'-1"	L/360	10'-11"	11'-1"	11'-6"	12'-4"	13'-4"
	L/480	10'-2"	10'-3"	10'-8"	11'-6"	12'-6"	L/480	9'-1"	9'-2"	9'-7"	10'-5"	11'-5"
6 1/2"	L/180	17'-2"	17'-3"	17'-8"	18'-6"	19'-6"	L/180	16'-1"	16'-2"	16'-7"	17'-5"	18'-5"
	L/240	15'-7"	15'-8"	16'-1"	16'-11"	17'-11"	L/240	14'-7"	14'-8"	15'-1"	15'-11"	16'-11"
	L/360	13'-7"	13'-8"	14'-1"	14'-11"	15'-11"	L/360	12'-9"	12'-10"	13'-3"	14'-1"	15'-1"
	L/480	12'-2"	12'-3"	12'-8"	13'-6"	14'-6"	L/480	11'-1"	11'-2"	11'-7"	12'-5"	13'-5"
8 1/4"	L/180	19'-8"	19'-9"	20'-2"	20'-11"	21'-11"	L/180	18'-5"	18'-6"	18'-11"	19'-9"	20'-0"
	L/240	17'-10"	17'-11"	18'-4"	19'-2"	20'-2"	L/240	16'-8"	16'-9"	17'-2"	18'-0"	19'-0"
	L/360	15'-7"	15'-8"	16'-1"	16'-11"	17'-11"	L/360	14'-7"	14'-8"	15'-1"	15'-11"	16'-11"
	L/480	14'-0"	14'-1"	14'-6"	15'-4"	16'-4"	L/480	13'-0"	13'-1"	13'-6"	14'-4"	15'-4"
10 1/4"	L/180	21'-10"	21'-11"	22'-0"	22'-0"	22'-0"	L/180	20'-5"	20'-6"	20'-11"	21'-0"	22'-0"
	L/240	20'-10"	20'-11"	21'-0"	21'-0"	21'-0"	L/240	19'-10"	19'-11"	20'-3"	21'-0"	22'-0"
	L/360	19'-1"	19'-2"	19'-7"	20'-5"	20'-5"	L/360	18'-10"	18'-11"	19'-4"	20'-0"	21'-0"
	L/480	18'-1"	18'-2"	18'-7"	19'-5"	19'-5"	L/480	17'-10"	17'-11"	18'-4"	19'-0"	20'-0"



Foam - 10# Density EPS.
O.S.B. - 7/16", Exposure 1
Lumber - #2 Spruce, Pine or Fir



Foam - 10# Density EPS.
OSB - 7/16", Exposure 1
Lumber - #2 Spruce, Pine or Fir

Notes

Charts show Maximum Clear Spans for Double OSB Composite Panels using 1 lb./cu. ft. EPS. Foam used in "Partially Enclosed" Structures. Structures classified as "Partially Enclosed" contain solid walls and roofs with glass glazed windows & doors in them. eg. Glass Rooms, Additions, Garages & Houses. Or solid roofs with at least one solid wall usually the host structure. eg. Attached Carports, Attached Patio Covers & Attached Walkway Covers. This chart is used as an alternative to installing impact glass or shutters in wind borne debris areas and accounts for added internal building pressures.

Overhang improves panel span, 4 ft. max. for roofs, 2 ft. max. for floors. The Thermal Resistance Value of a panel is R-4 per inch of thickness. eg. a 4 1/2" panels R-value is R-16.

Panels may be used in a floor, wall or roof application.

OSB. Skin to be fastened with 5/8" Crown x 1 1/2" x 16ga. Staples @ 6" O.C. or equal.

OSB. Skin to be weatherproofed w/ a moisture barrier of 2 overlapping layers of 15# building felt minimum.

For Maximum Panel Clear Spans for 123 MPH Wind Speed, reduce values listed in 120 MPH Wind Speed by multiplying by 0.98

Spans listed are for Exposure B.

For Maximum Panel Clear Spans for Exposure C, reduce values listed by multiplying by 0.85

Maximum Panel Length is 24'-0". On longer clear spans, clear span will be reduced as overhang increases to reflect this limitation.

360 BURBANK ROAD
OLDSMAR, FLORIDA 34677
NATIONWIDE 1-800-988-3708
LOCAL 813-665-2627
FAX 813-665-8128

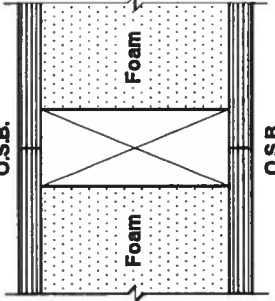
"Double OSB" Panel Spans "Partially Enclosed"

STRUCTALL BUILDING SYSTEMS STANDARD ENGINEERING
Engineered by LAWRENCE E. BENNETT P.E.
P.O. BOX 4368, S. Daytona, FL 32121, Tel. (386) 767-4774

Scale
None

Page

DL + LL @ 25lbs. per sq. ft.		DL + LL @ 35lbs. / sq. ft.		DL + LL @ 45lbs. per sq.ft.		DL + LL @ 55lbs. / sq. ft.		DL + LL @ 75lbs. / sq. ft.	
Panel Thickness	Deflection	1 FT.	2 FT.	3 FT.	4 FT.	1 FT.	2 FT.	3 FT.	4 FT.
4 1/2"	L/180	14'-4"	14'-5"	14'-10"	15'-8"	16'-8"	17'-10"	18'-10"	19'-10"
	L/240	13'-0"	13'-1"	13'-6"	14'-4"	15'-4"	16'-6"	17'-6"	18'-6"
	L/360	11'-5"	11'-6"	11'-11"	12'-9"	13'-9"	14'-11"	15'-11"	16'-11"
	L/480	10'-2"	10'-3"	10'-8"	11'-6"	12'-6"	13'-8"	14'-8"	15'-8"
6 1/2"	L/180	16'-8"	16'-9"	17'-2"	18'-0"	19'-0"	20'-2"	21'-2"	22'-2"
	L/240	15'-2"	15'-3"	15'-8"	16'-6"	17'-6"	18'-8"	19'-8"	20'-8"
	L/360	13'-3"	13'-4"	13'-9"	14'-7"	15'-7"	16'-9"	17'-9"	18'-9"
	L/480	12'-2"	12'-3"	12'-8"	13'-6"	14'-6"	15'-8"	16'-8"	17'-8"
8 1/4"	L/180	19'-1"	19'-2"	19'-7"	20'-5"	21'-5"	22'-7"	23'-7"	24'-7"
	L/240	17'-4"	17'-5"	17'-10"	18'-8"	19'-8"	21'-0"	22'-0"	23'-0"
	L/360	15'-2"	15'-3"	15'-8"	16'-6"	17'-6"	18'-8"	19'-8"	20'-8"
	L/480	13'-5"	13'-6"	13'-11"	14'-9"	15'-9"	17'-1"	18'-1"	19'-1"
10 1/4"	L/180	23'-5"	23'-6"	23'-11"	24'-9"	25'-9"	27'-1"	28'-1"	29'-1"
	L/240	21'-3"	21'-4"	21'-9"	22'-7"	23'-7"	24'-9"	25'-9"	26'-9"
	L/360	18'-7"	18'-8"	19'-1"	19'-11"	20'-11"	21'-11"	22'-11"	23'-11"
	L/480	16'-7"	16'-8"	17'-1"	17'-11"	18'-11"	19'-11"	20'-11"	21'-11"



Foam - 10# Density EPS.
OSB - 7/16", Exposure 1
Lumber - #2 Spruce, Pine or Fir

Notes

Charts show Maximum Clear Spans for Double OSB Composite Panels using 1 lb./cu. ft. EPS. Foam, combined Dead/Live Load and/or Snow Load.

Panel Dead Load is calculated at 5 lbs. per sq. ft. The remainder is the Live Load or Snow Load.

eg. 25 lbs / sq. ft. is 5 lbs. Dead Load + 20 lbs. Live or Snow Load.

Overhang improves panel span, 4 ft. max. for roofs, 2 ft. max. for floors.

The Thermal Resistance Value of a panel is R-4 per inch of thickness. eg. a 4 1/2" panels R-value is R-16.

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OSB. Skin to be fastened with 5/8" Crown x 1 1/2" x 16ga. Staples @ 6" O.C. or equal.

OSB. Skin to be weatherproofed w/ a moisture barrier of 2 overlapping layers of 15# building felt minimum.

Maximum Panel Length is 24'-0". On longer clear spans, clear span will be reduced as overhang increases to reflect this limitation.