

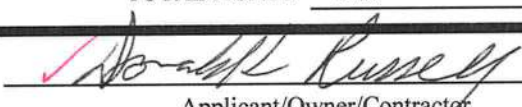
TE 01/30/2012

Columbia County Building Permit
This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000029907

APPLICANT DONALD RUSSELL PHONE 352.372.9767
ADDRESS POB 14165 GAINESVILLE FL 32604
OWNER WILLIAM GETTS, JR. PHONE 386.454.2964
ADDRESS 216 SE BRAWLEY TERRACE HIGH SPRINGS FL 32643
CONTRACTOR DONALD RUSSELL PHONE 352.372.9767
LOCATION OF PROPERTY 41/441-S TO ADAMS, TL TO 1 1/2 MILES TO BRAWLEY TERRACE, TL
AND IT'S THE FIRST DRIVEWAY ON L.
TYPE DEVELOPMENT ALUM. SCREEN ENCL. ESTIMATED COST OF CONSTRUCTION 15640.00
HEATED FLOOR AREA TOTAL AREA HEIGHT STORIES
FOUNDATION WALLS ROOF PITCH FLOOR
LAND USE & ZONING A-3 MAX. HEIGHT
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 1 FLOOD ZONE FX DEVELOPMENT PERMIT NO.

PARCEL ID 11-7S-17-09983-005 SUBDIVISION BICENTENNIAL ACRES
LOT 9 BLOCK PHASE UNIT 2 TOTAL ACRES 5.00

RX0066859 
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING X-12-8 BLK TC N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

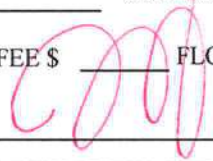
COMMENTS: NOC ON FILE.

Check # or Cash 45614

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power date/app. by Foundation date/app. by Monolithic date/app. by
Under slab rough-in plumbing date/app. by Slab date/app. by Sheathing/Nailing date/app. by
Framing date/app. by Insulation date/app. by
Rough-in plumbing above slab and below wood floor date/app. by Electrical rough-in date/app. by
Heat & Air Duct date/app. by Peri. beam (Lintel) date/app. by Pool date/app. by
Permanent power date/app. by C.O. Final date/app. by Culvert date/app. by
Pump pole date/app. by Utility Pole date/app. by M/H tie downs, blocking, electricity and plumbing date/app. by
Reconnection date/app. by RV date/app. by Re-roof date/app. by

BUILDING PERMIT FEE \$ 80.00 CERTIFICATION FEE \$ 0.00 SURCHARGE FEE \$ 0.00
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ CULVERT FEE \$ **TOTAL FEE** 130.00
INSPECTORS OFFICE  CLERKS OFFICE 

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

For Office Use Only Application # 1201-39 Date Received 1/24 By JW Permit # 29907
Zoning Official BLK Date 27 JAN 2012 Flood Zone Floodable X Land Use A-3 Zoning A-3
FEMA Map # N/A Elevation N/A MFE N/A River N/A Plans Examiner J.C. Date 1-25-12
Comments _____
☒ NOC ☒ EH ☒ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Well letter ☐ 911 Sheet ☐ Parent Parcel # _____
☐ Dev Permit # _____ ☐ In Floodway ☐ Letter of Auth. from Contractor ☐ FW Comp. letter
IMPACT FEES: EMS _____ Fire _____ Corr _____ ☐ Sub VF Form
Road/Code _____ School _____ = TOTAL (Suspended) ☐ App Fee Paid

Septic Permit No V-12-8 in file Box Fax 352 3786105
Name Authorized Person Signing Permit Donald Russell pro. Phone 352 3729767
Address P.O. Box 14165 Gainesville, FL 32604
Owners Name William Letts, Jr. Phone 386-454 2964
911 Address 214 SE Brawley Terr. High Springs 32643-1301
Contractors Name Donald Russell pro. of Total Aluminum Phone 352 3729767
Address P.O. Box 14165 Gainesville FL 32604
Fee Simple Owner Name & Address N/A
Bonding Co. Name & Address N/A
Architect/Engineer Name & Address Lawrence Bennett P.O. Box 290036, Port Orange FL 32119
Mortgage Lenders Name & Address N/A

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progress Energy

Property ID Number 11-75-17-09983-005 Estimated Cost of Construction 15640
Subdivision Name Bicentennial Sub Lot 5 Block _____ Unit I Phase _____
Driving Directions A 41/441-S TO ADAMS RD, FL GO 1 1/2 miles TO BRAWLEY TERRACE, FL and it's the first driveway on L
Number of Existing Dwellings on Property 1

Construction of Aluminum Screen Room Total Acreage 15.00 Lot Size _____
Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 10' off ground
Actual Distance of Structure from Property Lines - Front 300 Side 200 Side 400 Rear N/A
Number of Stories 1 Heated Floor Area N/A Total Floor Area 640 Roof Pitch 1/4"

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction. CODE: Florida Building Code 2007 with 2009 Supplements and the 2008 National Electrical Code.
Page 1 of 2 (Both Pages must be submitted together.) Revised 1-11

Spoke to Donald on 1-27-12
He will call with check #
\$130.00

JW left msg w/ City for Mr Russell to
Call - - - 1.28.12

Columbia County Building Permit Application

TIME LIMITATIONS OF APPLICATION: An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment: According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE: YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. You must verify if your property is encumbered by any restrictions or face possible litigation and or fines.

William Little
Owners Signature

(Owners Must Sign All Applications Before Permit Issuance.)

****OWNER BUILDERS MUST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT.**

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

Scott Russell
Contractor's Signature (Permittee)

State *FL*
Contractor's License Number *R10066859*
Columbia County *RR 0006800*
Competency Card Number *AC 0066780*

Affirmed under penalty of perjury to by the Contractor and subscribed before me this *24th* day of *JANUARY* 20*12*.
Personally known *[Signature]* or Produced Identification

[Signature]
State of Florida Notary Signature (For the Contractor)

SEAL:



Columbia County Building Permit Application

TIME LIMITATIONS OF APPLICATION : An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment: According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE: **YOU ARE HEREBY NOTIFIED** as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. You must verify if your property is encumbered by any restrictions or face possible litigation and or fines.

(Owners Must Sign All Applications Before Permit Issuance.)

Owners Signature _____

****OWNER BUILDERS MUST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT.**

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

Joseph Russell
Contractor's Signature (Permitee)

State
Contractor's License Number RR 000680P
Columbia County
Competency Card Number 001218
RR 000680P 59 ✓
AC 0006780

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 24th day of JANUARY 2012.
Personally known ✓ or Produced Identification _____

Laurie Hodson
State of Florida Notary Signature (For the Contractor)

SEAL:



PRODUCT APPROVAL SPECIFICATION SHEET

Location: _____

Project Name: Mmm William Setts

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit on or after April 1, 2004. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung			
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass-through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11. Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles			
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

NA State
Self Attached Cert. State
Eng. A lw. Sh patio cover
for a Screen Room

Category/Subcategory (cont.)	Manufacturer	Product Description	Approval Number(s)
13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor			
2. Truss plates			
3. Engineered lumber			
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspection

Contractor or Contractor's Authorized Agent Signature
Donald L Russell
Location

Donald L Russell
Print Name
Date *1/24/11*

Columbia County Property Appraiser

DB Last Updated: 1/17/2012

2011 Tax Year

Parcel: 11-7S-17-09983-005

<< Next Lower Parcel Next Higher Parcel >>

Tax Collector

Tax Estimator

Property Card

Parcel List Generator

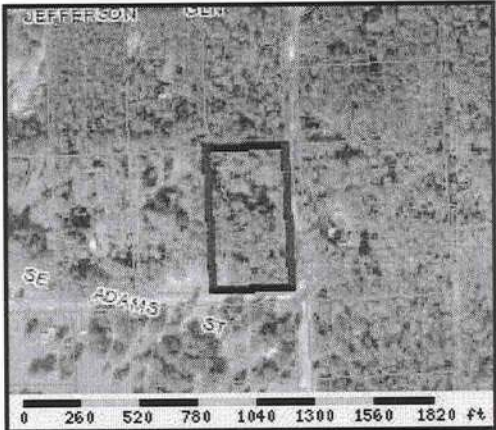
Interactive GIS Map

Print

Search Result: 1 of 1

Owner & Property Info

Owner's Name	GETTS WILLIAM JR & JUDITH A		
Mailing Address	216 SE BRAWLEY TERRACE HIGH SPRINGS, FL 32643		
Site Address	216 SE BRAWLEY TER		
Use Desc. (code)	MOBILE HOM (000200)		
Tax District	3 (County)	Neighborhood	11717
Land Area	5.000 ACRES	Market Area	02
Description	NOTE: This description is not to be used as the Legal Description for this parcel in any legal transaction.		
LOT 9 BICENTENNIAL ACRES UNIT 1. ORB 926-1259.			



Property & Assessment Values

2011 Certified Values		
Mkt Land Value	cnt: (0)	\$33,164.00
Ag Land Value	cnt: (2)	\$0.00
Building Value	cnt: (1)	\$63,666.00
XFOB Value	cnt: (3)	\$3,410.00
Total Appraised Value		\$100,240.00
Just Value		\$100,240.00
Class Value		\$0.00
Assessed Value		\$100,240.00
Exempt Value	(code: HX)	\$50,000.00
Total Taxable Value		
		Cnty: \$50,240
		Other: \$50,240 Schl:
		\$75,240

2012 Working Values

NOTE:
2012 Working Values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

Show Working Values

Sales History

Show Similar Sales within 1/2 mile

Sale Date	OR Book/Page	OR Code	Vacant / Improved	Qualified Sale	Sale RCode	Sale Price
4/4/2001	926/1259	QC	I	U	01	\$100.00
11/1/1984	552/96	WD	I	Q		\$20,000.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SFR MANUF (000200)	1997	(31)	2356	3926	\$60,976.00
Note: All S.F. calculations are based on exterior building dimensions.						

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0040	BARN,POLE	0	\$100.00	0000001.000	0 x 0 x 0	(000.00)
0040	BARN,POLE	2005	\$1,150.00	0000460.000	23 x 20 x 0	(000.00)
0294	SHED WOOD/	2005	\$2,160.00	0000576.000	16 x 36 x 0	AP (050.00)

Land Breakdown

NOTICE OF COMMENCEMENT

This Instrument Prepared By:

Name: Donald L. Russell Address: P.O. Box 14165
Permit No: _____ Tax Folio No: _____ STATE OF: FL COUNTY OF: Columbia

THE UNDERSIGNED HEREBY gives notice that improvement(s) will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. DESCRIPTION OF PROPERTY: Street Address: 216 Browley Ter, High Springs FL 32643
Legal Description: 17-75-110200 10200 Acres Lot 9 Oriented to the

2. GENERAL DESCRIPTION OF IMPROVEMENT(S): _____

3. OWNER INFORMATION: a) Name: Mr + Mrs William Datto
Address: 2165 E Browley Ter High Springs, Fla. 32643-1301
b) Interest in Property: Owner
c) Fee Simple Titleholder (if other than owner) Name: _____
Address: NA

4. CONTRACTOR: a) Name: Lato Aluminum Inc + Donald L. Russell pres
Address: P.O. Box 14165 Gainesville FL 32604
b) Phone Number: _____

5. SURETY: a) Name: _____
Address: _____
b) Amount of bond \$ NA c) NA
6. LENDER: a) Name: _____
Address: _____
b) Phone: _____

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a) 7., Florida Statutes:

a) Name: _____
Address: NA
b) Phone: _____

8. In addition to himself, Owner designates the following person(s) to receive a copy of Lienor's Notice as provided in Section 713.13(1)(b) Florida Statutes.

a) Name: _____
Address: NA
b) Phone: _____

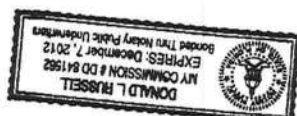
9. Expiration date of notice of commencement (the expiration date is one (1) year from the date of recording unless a different date is specified): _____

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART 1, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

William Datto
Signature of Owner's Authorized Officer/Director
Partner/Manager
Signatory's Title/Office

The foregoing instrument was acknowledged before me this 21 day of Jan 2012 (year)
By _____ (name of person) as _____
(type of authority, e.g. officer, trustee, attorney in fact for _____
(name of party on behalf of whom instrument was executed).

Donald L. Russell
Signature of Notary Public - State of Florida
Print, Type, or Stamp Commissioned Name of Notary Public
Commission Number: _____



Personally Known _____ or Produced Identification ✓
G 320-920-47-018-0

Verification Pursuant to Section 92.525, Florida Statutes

Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

William Datto
Signature of Natural Person Signing Above

This instrument prepared by:

Marvin W. Bingham, Jr.

Post Office Box 1930BK

Alachua, Florida 32616

01-08547

FILED AND RECORDED IN PUBLIC
RECORDS OF COLUMBIA COUNTY, FL

'01 MAY 14 PM 2:27

0926 PG 1259

Tax Parcel # R-09983003



QUIT CLAIM DEED

This Indenture, made this 4th day of May, 2001 between William Getts, Jr., also known as William Getts, joined by his wife, Judith A. Getts, whose post office address is Route 2, Box 626, High Springs, Florida 32643, Grantors, and William Getts, Jr. and Judith A. Getts, husband and wife, whose post office address is Route 2, Box 626, High Springs, Florida 32643, Grantees;

WITNESSETH that said Grantors, for and in consideration of the sum of Ten and no/100 (\$10.00) Dollars, in hand paid by said Grantees, the receipt whereof is hereby acknowledged, have remised, released and quit claimed, and by these presents do remise, release and quitclaim unto said Grantees all the right, title, interest, claim and demand which said Grantors have in and to the following described lot, piece or parcel of land, situate lying and being in the County of Columbia, State of Florida, to wit:

Lot 9, Bicentennial Acres, Unit 1, a subdivision as recorded in Plat Book 4, Page 35a of the Public Records of Columbia County, Florida

TO HAVE AND TO HOLD the same, together with all and singular the appurtenances thereunto belonging or in anywise appertaining, and all the estate right, title, interest and claim whatsoever of said Grantors, either in law or equity, to the only proper use, benefit and behalf of said Grantees.

IN WITNESS WHEREOF, said Grantors have hereunto set their hands and seals on the day and year first above written.

Signed, sealed and delivered in our presence:

Witness

Print: Marvin W. Bingham Jr.

Witness

Print: Sharon L. Rutherford

William Getts, Jr.
William Getts, Jr.

Judith A. Getts
Judith A. Getts

STATE OF FLORIDA
COUNTY OF ALACHUA

The foregoing instrument was acknowledged before me this 4th day of May, 2001 by William Getts, Jr. and Judith A. Getts, who are ☒ personally known to me or ☐ who have produced Florida Driver Lic. as identification.

Notary Public - State of Florida

Sign: [Signature]

My Commission Expires:

Print: Marvin W. Bingham Jr.

Documentary Stamp 70
Intangibles Tax 12
P. DeWitt Canon
Clerk of Court
By [Signature]

MARVIN W. BINGHAM, JR.
Notary Public, State of Florida
My comm exp May 22, 2002
Comm No CC932231

Building Permit Sketch

JOB: 16' x 40' Alu. Screen Room, on Existing Deck on a Mob. Home
HOMEOWNER: Mr + Mrs Williams - Letts PHONE #: 386-454-2964
ADDRESS: 216 SE Browley Terr. High Springs Fla 32643-1301

COST: 15640.00

PARCEL: _____

BUILDER: Gator Aluminum, INC.

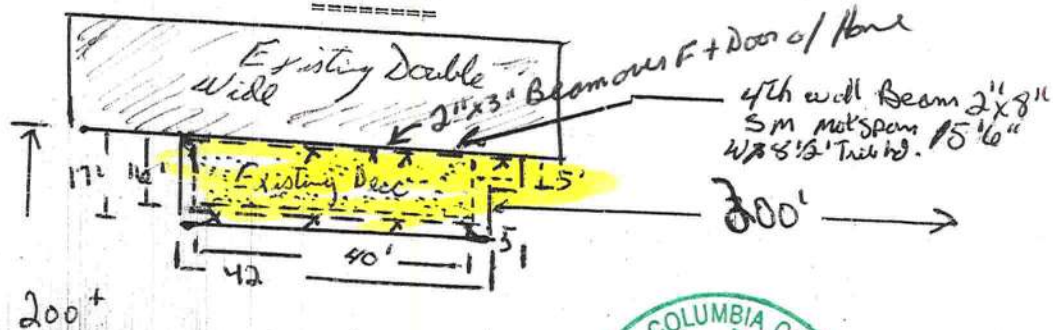
P.O. Box 14165

Gainesville, Fl 32604 - 2165

PHONE #: 372-9767

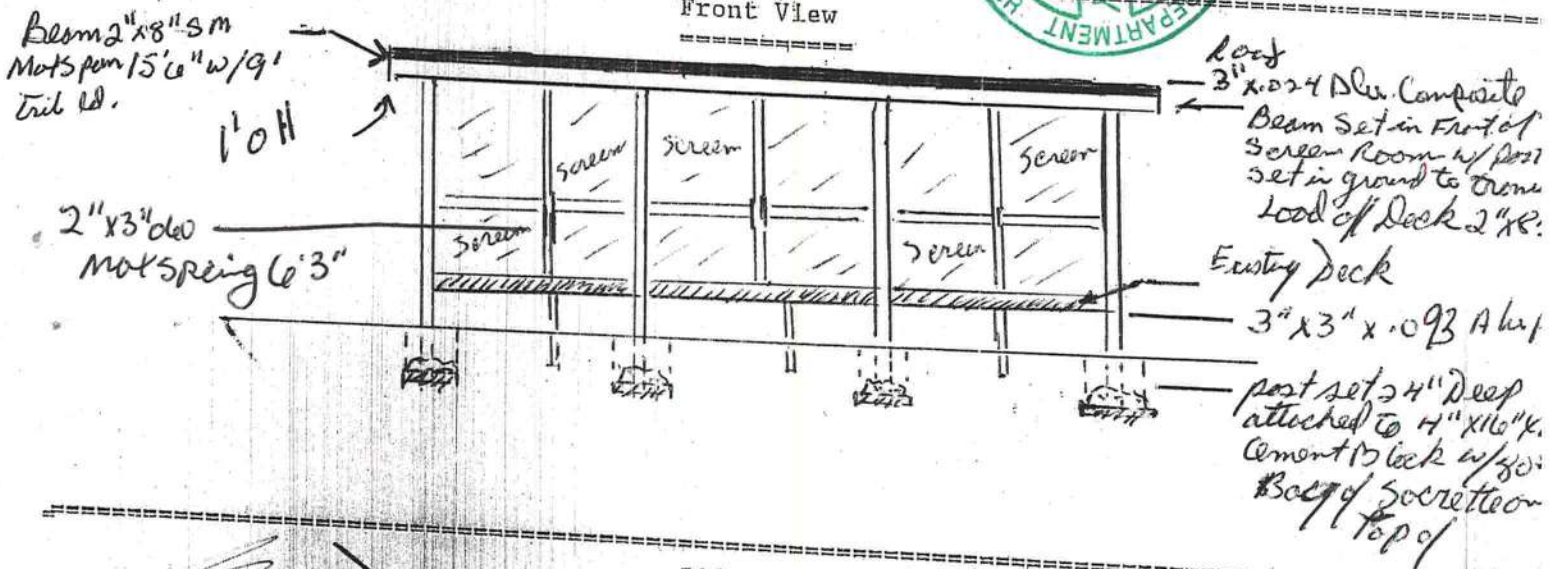
Donald L. Russell , President

Top View

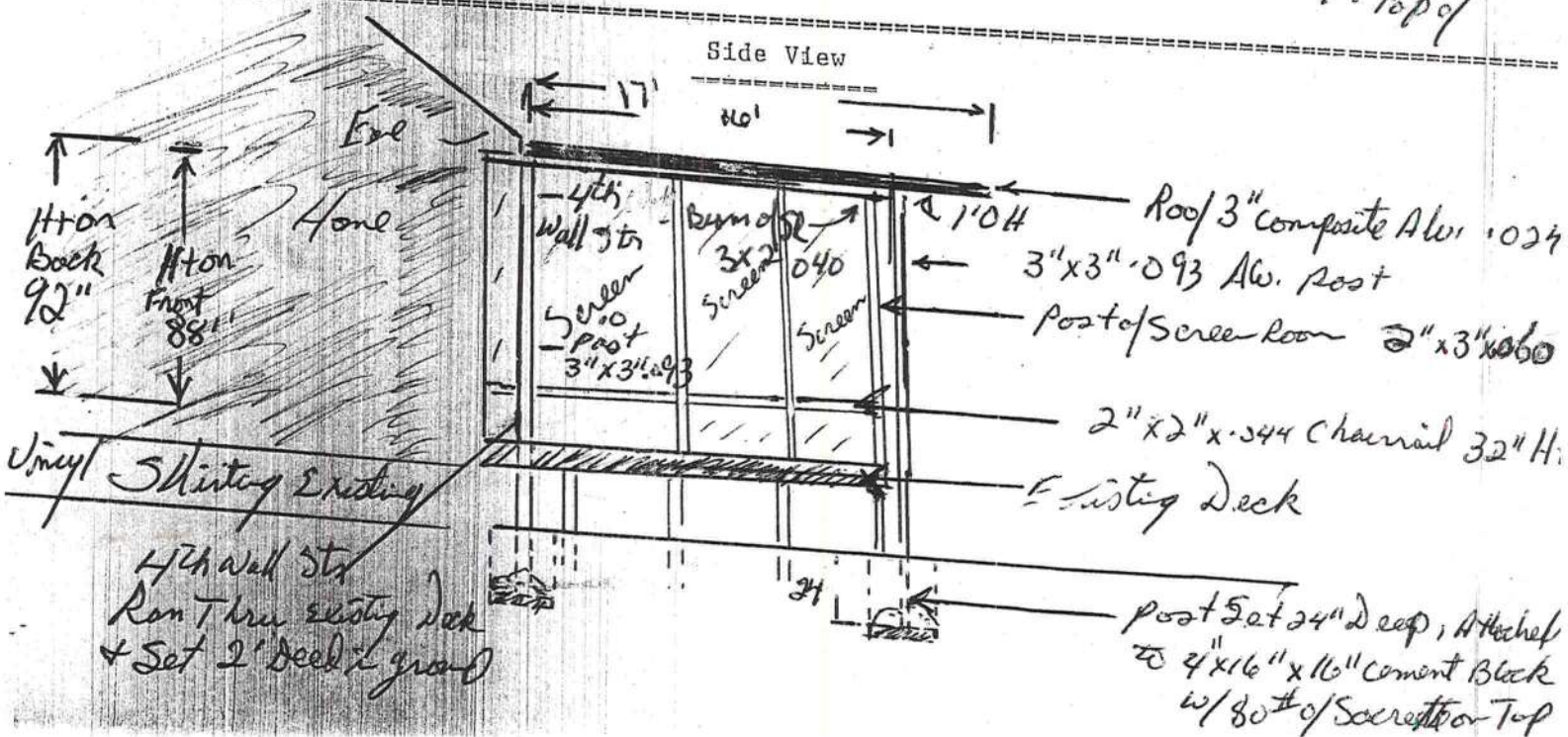


Received
for
FILE COPY
Code
Compliance
PLANS EXAMINER
COLUMBIA COUNTY BUILDING DEPARTMENT

Front View



Side View



ALUMINUM STRUCTURES DESIGN MANUAL STATEMENT

I hereby certify that the engineering contained in the following pages has been prepared in compliance with ASCE 7-05 and the writers interpretation of The 2007 Florida Building Code with 2009 Supplements, Chapter 20 Aluminum, Chapter 23 Wood and Part 1A of The Aluminum Association of Washington, D.C. Aluminum Design Manual Part 1A and AA AS435. Appropriate multipliers and conversion tables shall be used for codes other than the Florida Building Code.

Structures sized with this manual are designed to withstand wind velocity loads, walk-on or live loads, and/or loads as listed in the appropriate span tables.

All wind loads used in this manual are considered to be minimum loads. Higher loads and wind zones may be substituted.

Pursuant to the requirements F.S. 489.113, Subsection 9, the following requirements are hereby listed:

1. This master file manual has been peer reviewed by Brian Stirling, P.E. #34927 and a copy of his letter of review and statement of financial interest is available upon request. A copy of Brian Stirling's letter is posted on my web site, www.lebpe.com.
2. Any user of this manual, for the purpose of acquiring permits, must be a licensed Architect, Engineer, or Contractor (General, Building, Residential, or Aluminum Specialty) and are required to attend my continuing education class on the use of the manual within six months of becoming a client and bi-annually thereafter.
3. Structures designed using this manual shall not exceed the limits set forth in the general notes contained here in. Structures exceeding these limits shall require site specific engineering.

INDEX

This packet should contain all of the following pages:

- SHEET 1:** Aluminum Structures Design Manual, Index, Legend, and Inspection Guide for Screen and Vinyl Rooms.
- SHEET 2:** Checklist for Screen, Acrylic & Vinyl rooms, General Notes and Specifications, Design Statement, and Site Exposure Evaluation Form.
- SHEET 3:** Isometrics of solid roof enclosure and elevations of typical screen room.
- SHEET 4:** Post to base and purlin details.
- SHEET 5:** Beam connection details.
- SHEET 6:** Knee wall, down and footing details.
- SHEET 7:** Span Examples, Beam splice locations and detail, Alternate self-mating beam to gutter detail.
- SHEET 8-110:** Tables showing 110 mph frame member spans.
- SHEET 8-120:** Tables showing 120 mph frame member spans.
- SHEET 8-130:** Tables showing 130 mph frame member spans.
- SHEET 8-140:** Tables showing 140 mph frame member spans.
- SHEET 9:** Mobile home attachment details, ribbon footing detail, and post to beam and anchor schedules.
- SHEET 10A:** Solid roof panel products - General Notes & Specifications, Design Statement, design load tables, and gutter to roof details.
- SHEET 10B:** Roof connection details.
- SHEET 10C:** Roof connection details, valley connection elevation, plan & section views, pan & composite panels to wood frame details, super & extruded gutter to pan roof details.
- SHEET 10D:** Roof to panel details, gutter to beam detail, pan fascia & gutter end cap water relief detail, beam connection to fascia details, pan roof anchoring details.
- SHEET 10E:** Panel roof to ridge beam @ post details, typical insulated panel section, composite roof panel with shingle finish details.
- SHEET 10F:** Tables showing allowable spans and applied loads for riser panels.
- SHEET 10G:** Manufacturer specific design panel.
- SHEET 10H:** Manufacturer specific design panel.
- SHEET 11:** Die shapes & properties.
- SHEET 12:** Fasteners - General notes & specifications, Design statement, and allowable loads tables.

LEGEND

This engineering is a portion of the Aluminum Structures Design Manual ("ASDM") developed and owned by Bennett Engineering Group, Inc. ("Bennett"). Contractor acknowledges and agrees that the following conditions are a mandatory prerequisite to Contractor's purchase of these materials.

1. Contractor represents and warrants the Contractor:
 - 1.1. Is a contractor licensed in the state of Florida to build the structures encompassed in the ASDM.
 - 1.2. Has attended the ASDM training course within two years prior to the date of the purchase.
 - 1.3. Has signed a Master License Agreement and obtained a valid approval card from Bennett evidencing the license granted in such agreement.
 - 1.4. Will not alter, amend, or obscure any notice on the ASDM.
 - 1.5. Will only use the ASDM in accordance with the provisions of Florida Statute section 489.113(9)(b) and the notes limiting the appropriate use of the plans and the calculations in the ASDM.
 - 1.6. Understands that the ASDM is protected by the federal Copyright Act and that further distribution of the ASDM to any third party (other than a local building department as part of any Contractor's own work) would constitute infringement of Bennett Engineering Group's copyright, and
2. **DISCLAIMER OF WARRANTIES.** Contractor acknowledges and agrees that the ASDM is provided "as is" and "as available." Bennett hereby expressly disclaims all warranties of merchantability, fitness for a particular purpose, and non-infringement. In particular, Bennett disclaims its officers, employees, agents, representatives, and successors, do not represent or warrant that (a) use of the ASDM will meet Contractor's requirements (b) that the ASDM is free from error.
3. **LIMITATION OF LIABILITY.** Contractor agrees that Bennett's entire liability, if any, for any claim(s) for damages relating to Contractor's use of the ASDM, which are made against Bennett, whether based in contract, negligence, or otherwise, shall be limited to the amount paid by Contractor for the ASDM. In no event will Bennett be liable for any consequential, exemplary, incidental, indirect, or special damages, arising from or in any way related to, Contractor's use of the ASDM, even if Bennett has been advised of the possibility of such damages.
4. **INDEMNIFICATION.** Contractor agrees to indemnify, defend, and hold Bennett harmless, from and against any action brought against Bennett, by any third party (including but not limited to any customer or subcontractor of Contractor), with respect to any claim, demand, cause of action, debt, or liability, including reasonable attorneys' fees, to the extent that such action is based upon, or in any way related to, Contractor's use of the ASDM.

CONTRACTOR NAME:

Aluminum Inc

CONTRACTOR LICENSE NUMBER:

FL 0066859

COURSE # 0002299 ATTENDANCE DATE:

8/25/2010

CONTRACTOR SIGNATURE:

Doyle Russell

SUPPLIER:

Tom & Corby

BUILDING DEPARTMENT

CONTRACTOR INFORMATION AND COURSE #0002299 ATTENDANCE DATE HAS BEEN

VERIFIED: (INITIAL)

INSPECTION GUIDE FOR SCREEN AND VINYL ROOMS

1. Check the building permit for the following:
 - a. Permit card & address
 - b. Approved drawings and addendums as required
 - c. Plot plan or survey
 - d. Notice of commencement
2. Check the approved site specific drawings or shop drawings against the "AS BUILD" structure for:
 - a. Structure's length, projection, plan & height as shown on the plans
 - b. Beam sizes, span, spacing & stitching screws (if required)
 - c. Purlin sizes, span & spacing
 - d. Upright sizes, height, spacing & stitching screws (if required)
 - e. Chair rail sizes, length & spacing
 - f. Knee braces are properly installed (if required)
 - g. Roof panel sizes, length & thickness
 - h. Check load bearing uprights / walls to deck for:
 - a. Angle bracket size & thickness
 - b. Correct number, size & spacing of fasteners to upright
 - c. Correct number, size & spacing of fasteners of angle to deck and sole plate
 - d. Upright is anchored to deck through brick pavers then anchors shall go through pavers into concrete
3. Check the load bearing beam to upright for:
 - a. Receiver bracket, angle or receiving channel size & thickness
 - b. Number, size & spacing of anchors of beam to receiver or receiver to host structure
 - c. Header attachment to host structure or beam
 - d. Roof panel attachment to receiver or host structure
 - e. If angle brackets are used for framing connections, check number, size & thickness of fasteners
 - f. Post to beam attachments to slab
4. Check roof panel system for:
 - a. Receiver bracket, angle or receiving channel size & thickness
 - b. Size, number & spacing of anchors of beam to receiver
 - c. Header attachment to host structure or beam
 - d. Roof panel attachment to receiver or beam

Notes:

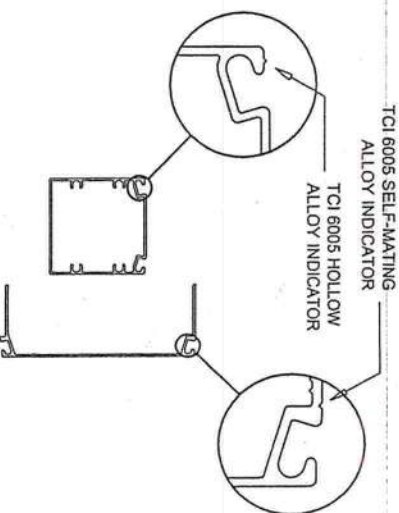


Town & Country 6005 Indicator Mark
(Instructions For Permit Purposes)

To: Plans Examiners and Building Inspectors.

These alloy identification marks have been provided to contractors and yourself for permitting purposes. The details below illustrate the alloy identification marks and the location of such marks. These alloy marks are used solely for our 6005 extrusions. It is ultimately the contractors responsibility that they receive and use only 6005 alloy shapes when using this engineering. We are providing this document to simplify the identification of our 6005 alloy materials to be used in conjunction with our 6005 engineering.

A separate signed and sealed document from Town & Country will be provided to our pre-approved contractors once the materials are purchased.



RAISED SEAL COPIES REQUIRED FOR ENGINEERING TO BE VALID FOR PERMITTING

ALUMINUM STRUCTURES DESIGN MANUAL
SCREEN, ACRYLIC & VINYL ROOMS
DESIGN MANUAL STATEMENT / INDEX /
LEGEND / INSPECTION GUIDE

2007 FLORIDA BUILDING CODE (2009 SUPPLEMENTS) - 2010 EDITION

Lawrence E. Bennett, P.E. FL # 16644
CIVIL & STRUCTURAL ENGINEERING
P.O. Box 290036, Port Orange, FL 32129
Telephone #: (386) 767-4774 Fax #: (386) 767-6556
<http://www.lebpe.com/>

Town & Country
INDUSTRIES, INC.
Wholesale Aluminum Distributors

400 W. McNAB ROAD, FORT LAUDERDALE, FLORIDA 33306
PHONE: (954) 970-9999
1-800-432-5019 FAX: (954) 972-1338

JOB NAME: *Man William Allen*
ADDRESS: *8100 E. Boulevard 10th*
High Spring 33493

SHEET 1 OF 12

DESIGN CHECK LIST FOR SCREEN, ACRYLIC & VINYL ROOMS

1. Design Statement:
These plans have been designed in accordance with the Aluminum Structures Design Manual by Lawrence E. Bennett and are in compliance with The 2007 Florida Building Code Edition with 2009 Supplements, Chapter 20, ASHRAE and The 2005 Aluminum Design Manual Part I-A & I-A: Exposure "B" or "C" or "D". Importance Factor 0.87 for 100 MPH and 0.77 for 110 MPH and higher; 120 MPH or 140 MPH for 3 second wind gust velocity load; Basic Wind Pressure 15.0 PSF for Walls
For Screen / Vinyl Rooms can be found on page 3A-1:
a. "B" exposure = 15.0 PSF for Walls & 15.0 PSF for Roofs
b. "C" exposure = 15.0 PSF for Walls & 15.0 PSF for Roofs
c. "D" exposure = 15.0 PSF for Walls & 15.0 PSF for Roofs
Negative I.P.C. 0.18
For "C" or "D" exposure design loads, multiply "B" exposure loads by factors in table 3A-C on page 3ii.
2. Host Structure Adequacy Statement:
I have inspected and verify that the host structure is in good repair and attachments made to the structure will be solid.

Contractor / Authorized Rep: Donnell Russell Date: 1/11/12
Signature: [Signature]
Contractor / Authorized Rep: Donnell Russell Date: 1/11/12
Signature: [Signature]
Contractor / Authorized Rep: Donnell Russell Date: 1/11/12
Signature: [Signature]

Note: Projection of room from host structure shall not exceed 16'.
3. Building Permit Application Package contains the following:

- A. Project name & address on plans Yes No
B. Site plan or survey with enclosure location Yes No
C. Contractor's / Designer's name, address, phone number, & signature on plans Yes No
D. Site exposure form completed Yes No
E. Proposed project layout drawing @ 1/8" or 1/10" scale with the following:
1. Plan view with host structure area of attachment, enclosure length, and projection from host structure Yes No
2. Front and side elevation views with all dimensions & heights Yes No
3. Beam span, spacing, & size Yes No
4. Upright height, spacing, & size Yes No
5. Chair rail or girts size, length, & spacing Yes No
6. Knee braces length, location, & size Yes No
7. (Check Table 3A.3 for knee brace size) Yes No

4. Highlight details from Aluminum Structures Design Manual:
A. Beam & purlin tables w/ sizes, thickness, spacing, & spans / lengths. Indicate Section 3A tables used: Yes No
B. Beam allowable span conversions from 120 MPH wind zone, "B" Exposure to Beam allowable span conversions from 120 MPH wind zone, "C" or "D" Exposure for load width: Yes No
Look up span on 120 MPH table and apply the following formula:
SPAN REQUIRED _____ REQUIRED SPAN NEEDED IN TABLE _____

5. Upright tables w/ sizes, thickness, spacing, & heights Yes No
(Tables 3A.2.1, 3A.2.2, or 3A.2.3)
Upright or wall member allowable height / span conversions from 120 MPH wind zone, "B" Exposure to _____ MPH wind zone and/or "C" Exposure for load width: Yes No
Look up span on 120 MPH table and apply the following formula:
SPAN REQUIRED _____ REQUIRED SPAN NEEDED IN TABLE _____

6. Table 3A.3 with beam & upright combination if applicable Yes No
Connection details to be used such as:
1. Beam to upright Yes No
2. Beam to wall Yes No
3. Beam to beam Yes No
4. Chair rail, purlins, & knee braces to beams & uprights Yes No
5. Extruded gutter connection Yes No
6. U-clip, angles and/or sole plate to deck Yes No

7. Foundation detail type & size Yes No
* Must have attended Engineer's Continuing Education Class within the past two years.
** Appropriate multiplier from page 1.

GENERAL NOTES AND SPECIFICATIONS

1. Certain of the following structures are designed to be married to Site Built Block, wood frame or DCA approved modular structures of adequate structural capacity. The contractor / home owner shall verify that the host structure is in good condition and of sufficient strength to hold the proposed addition.
2. If the home owner / contractor has a question about the host structure, the owner (at his expense) shall hire an architect or engineer to verify host structure capacity.
3. The structures designed using this section shall be limited to a maximum projection of 16', using a 4" existing slab and 20'-0" with a type II footing, from the host structure.
4. Freestanding structures shall be limited to the maximum spans and size limits of component parts. Larger than these limits shall have site specific engineering.
5. The proposed structure must be at least the length or width of the proposed structure whichever is smaller, away from any other structure to be considered free standing.
6. The following rules apply to attachments involving mobile and manufactured homes:
a. Structures to be placed adjacent to a mobile / manufactured home shall use "fourth wall construction". This applies to utility sheds, carports, and / or other structures to be attached.
b. "Fourth wall construction" means the addition shall be self supporting with only the roof flashing of the two units being attached. Fourth wall construction is considered an attached structure. The most common "fourth wall construction" is a post & beam frame adjacent to the mobile / manufactured home. The same span tables can be used as for the front wall beam. For fourth wall beam use the carrier beam table. The post shall be sized according to this manual and/or as a minimum be a 2" x 3" x 0.050" with an 18" x 2" x 0.044" knee brace at each end of the beam.
c. If the mobile / manufactured home manufacturer certifies in writing that the mobile home may be attached to, then a "fourth wall" is NOT required.
7. Section 7 contains span tables and the attachment details for purlins and composite panels.
8. Screen walls between existing walls, floors, and ceilings are considered inlets and shall be allowed and heights shall be selected from the same tables as for other screen walls.
9. When using TEK screws in lieu of S.M.S., longer screws must be used to compensate for drill head.
10. For high velocity hurricane zones the minimum live load / applied load shall be 30 PSF.
11. All specified anchors are based on an enclosed building with a 16' projection and a 2' over hang for up to a wind velocity of 120 MPH.
12. Spans may be interpolated between values but not extrapolated outside values.
13. Definitions, standards and specifications can be viewed online at www.lebpe.com.
14. When notes refer to screen rooms, they shall apply to acrylic / vinyl rooms also.
15. All gutter systems in which the back of the gutter is at or above the top surface of a composite panel roof shall have a minimum 2" diameter hole in all gutter end caps or alternate water relief ports in the gutter.
16. All aluminum extrusions shall meet the strength requirements of ASTM B221 after powder coating.
17. All aluminum shall be ordered as to alloy and hardness after heat treatment and paint is applied. Example: 6063-T6 after heat treatment and paint process
18. Framing systems and room additions using this section of the manual comply w/ requirements of the AAMA / NPEA / NSA 2100-2 for category I, II, & III sunrooms, non-habitable and unconditioned.
19. Post members set in concrete as shown on the following details shall not require knee braces.
20. Aluminum metals that will come in contact with ferrous metal surfaces or concrete / masonry products or pressure treated wood shall be coated w/ two coats of aluminum metal-and-masonry paint or a coat of heavy-bodied bituminous paint, or the wood or other absorbing material shall be painted with two coats of aluminum house paint and the joints sealed with a good quality caulking compound. The protective materials shall be as listed in section 2003.8.4.3 through 2003.8.4.6 of the Florida Building Code or Corrobound Cold Galvanizing Primer and Finisher.
21. All fasteners or aluminum parts shall be corrosion resistant such as non magnetic stainless steel grade 304 or 316; Ceramic coated, double zinc coated or powder coated steel fasteners. Only fasteners that are warranted as corrosion resistant shall be used; Unprotected steel fasteners shall not be used.
22. Any structure within 1500 feet of a salt water area; (bay or ocean) shall have fasteners made of non-magnetic stainless steel 304 or 316 series. 410 series has not been approved for use with aluminum by the Aluminum Association and should not be used.
23. Any project covering a pool with a salt water chlorination disinfection system shall use the above recommended fasteners. This is not limited to base anchoring systems but includes all connection types.
24. Screen, Acrylic and Vinyl Room engineering is for rooms with solid wall areas of less than 40%, pursuant to FBC 1202.1. Vinyl windows are not considered solid as panels should be removed in a high wind event. For rooms where the glazed and composite panels/solid wall area exceeds 40%, glass room engineering shall be used.

SECTION 3A DESIGN STATEMENT

The structures designed for Section 3A are solid roofs with screen or vinyl walls and are considered to be enclosed structures designed to be married to an existing structure. The design wind loads used for screen & vinyl rooms are from Chapter 20 of The 2007 Florida Building Code with 2009 Supplements. The loads assume a mean roof height of less than 30'; roof slope of 0° to 20°; I = 0.87 for 100 MPH zone, I = 0.77 for 110 MPH and higher zones. All loads are based on 20 / 20 screen or larger. All pressures shown in the below table are in PSF (#/SF). Negative internal pressure coefficient is 0.18 for enclosed structures. Anchors for composite panel roof systems were computed on a load width of 10' and 16' projection with a 2' overhang. Any greater load width shall be site specific. All framing components are considered to be 6005-T6 alloy except where noted otherwise.

Section 3A Design Loads for Screen, Acrylic & Vinyl Rooms Exposure "B"

	Basic Wind Pressure	Screen Rooms & Vinyl Rooms Roof Walls	Over Hang All Roofs
100 MPH	13.0	10.0 12.0	46.8
110 MPH	14.0	11.0 13.0	47.1
120 MPH	17.0	13.0 15.0	48.3
123 MPH	18.0	13.3 15.9	50.8
130 MPH	20.0	15.0 18.0	56.6
140-1 MPH	23.0	17.0 21.1	65.7
140-2 MPH	23.0	17.0 21.1	65.7
150 MPH	26.0	20.0 24.0	75.4

Note:
Framing systems of screen, vinyl and glass rooms are considered to be main frame resistance components. To convert the above loads from Exposure "B" to Exposures "C" or "D" see Table 3A-C next page.

Table 3A-A Conversion Factors for Screen & Vinyl Rooms From 120 MPH Wind Zone to Others, Exposure "B"

Wind Zone Applied Load (#/SF)	Roof Deflection (d)	Walls Deflection (d)	Bending (b)
100	10.0	1.09	1.14
110	11.0	1.06	1.09
120	13.0	1.00	1.00
123	13.3	0.99	0.99
130	15.0	0.95	0.93
140-1	17.0	0.91	0.87
140-2	17.0	0.91	0.87
150	20.0	0.87	0.81

Table 3A-B Conversion Factors for Over Hangs From exposure "B" to exposure "C"

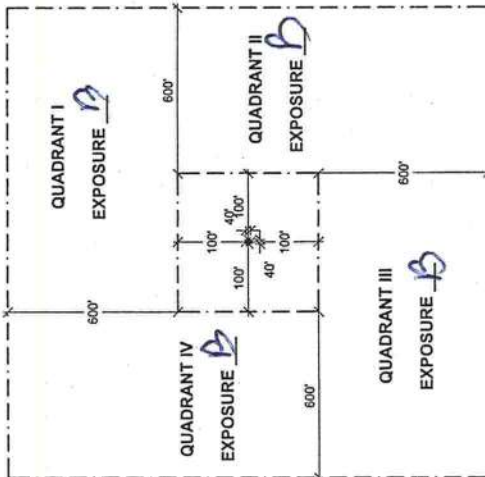
Wind Zone Applied Load (#/SF)	Roof Deflection (d)	Walls Deflection (d)	Bending (b)
100	46.8	1.01	1.02
110	47.1	1.01	1.01
120	48.3	1.00	1.00
123	50.8	0.98	0.97
130	56.6	0.95	0.92
140-1	65.7	0.90	0.86
140-2	65.7	0.90	0.86
150	75.4	0.86	0.80

Conversion Table 3A-C Load Conversion Factors Based on Mean Roof Height from Exposure "B" to "C" & "D"

Mean Roof Height*	Exposure "B" to "C"			Exposure "B" to "D"		
	Load Conversion Factor	Span Multiplier	Deflection	Load Conversion Factor	Span Multiplier	Deflection
0 - 15'	1.21	0.91	0.94	1.47	0.83	0.88
15' - 20'	1.29	0.88	0.92	1.54	0.81	0.87
20' - 25'	1.34	0.86	0.91	1.60	0.79	0.86
25' - 30'	1.40	0.85	0.89	1.66	0.78	0.85

* Use larger mean roof height of host structure or enclosure
Values are from ASCE 7-05

SITE EXPOSURE EVALUATION FORM



NOTE: ZONES ARE MEASURED FROM STRUCTURE OUTWARD

SITE

USING THE FOLLOWING CRITERIA, EVALUATE EACH QUADRANT AND MARK IT AS 'B', 'C', OR 'D' EXPOSURE. 'C' OR 'D' EXPOSURE IN ANY QUADRANT MAKES THE SITE THAT EXPOSURE.

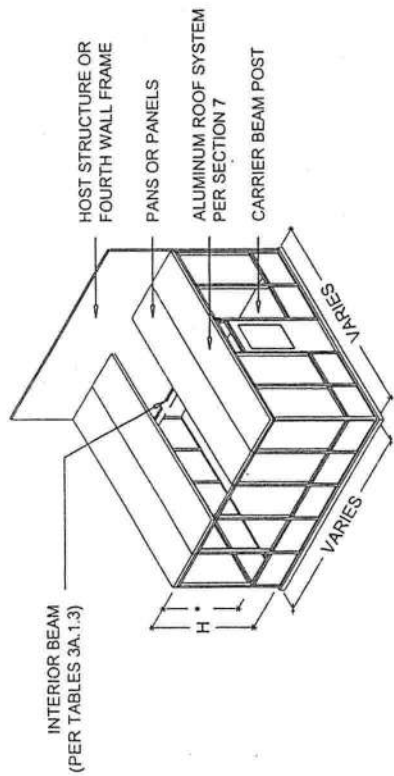
EXPOSURE C: Open terrain with scattered obstructions, including surface undulations or other irregularities, having heights generally less than 30 feet extending more than 1,500 feet from the building site in any quadrant.

- Any building located within Exposure B-type terrain where the building is within 100 feet horizontally in any direction of open areas of Exposure C-type terrain that extends more than 600 feet and width greater than 150 ft.
- No short term changes in 'b', 2 years before site evaluation and build out within 3 years, site will be 'b'.
- Flat, open country, grasslands, ponds and ocean or shorelines in any quadrant for greater than 1,500 feet.
- Open terrain for more than 1,500 feet in any quadrant.

SITE IS EXPOSURE: B EVALUATED BY: [Signature] DATE: 1/11/12
SIGNATURE: [Signature] LICENSE #: 20066851

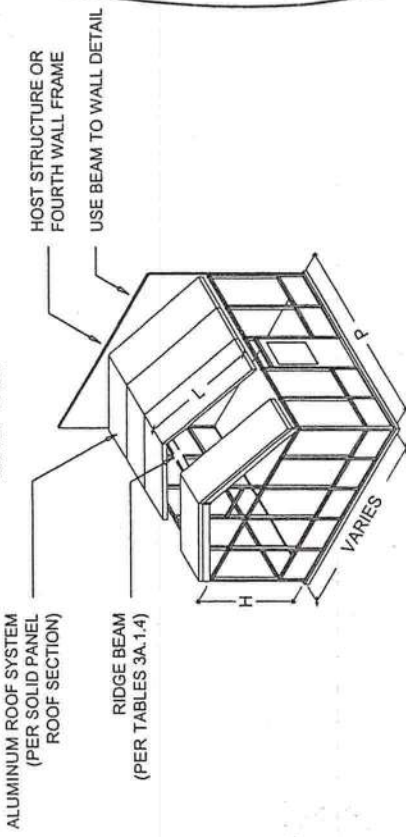
08-12-2010

12 OF



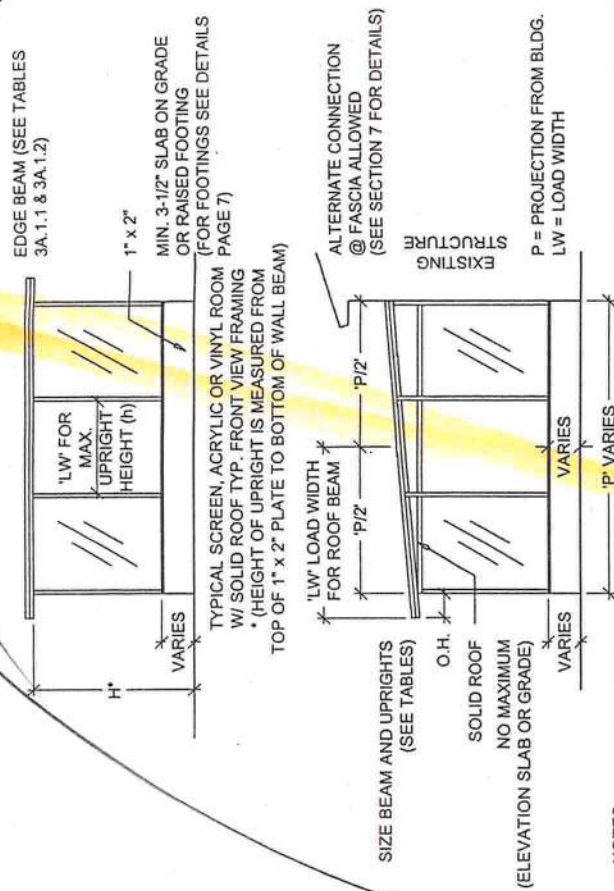
TYPICAL SLOPED SOLID ROOF ENCLOSURE

SCALE: N.T.S.



TYPICAL GABLE SOLID ROOF ENCLOSURE

SCALE: N.T.S.



NOTES:

1. ANCHOR 1" x 2" OPEN BACK EXTRUSION W/ 1/4" x 2-1/4" CONCRETE FASTENER MAX. OF 2'-0" O.C. AND W/ IN 6" EACH SIDE OF UPRIGHT ANCHOR 1" x 2" TO WOOD WALL W/ #10 x 2-1/2" S.M.S. W/ WASHERS OR #10 x 2-1/2" WASHER HEADED SCREW 2'-0" O.C.. ANCHOR BEAM AND COLUMN INTERNALLY OR W/ ANCHOR CLIPS AND (2) #8 SCREWS W/ WASHERS @ EACH POINT OF CONNECTION.
2. SELECT FRONT WALL BEAM FROM TABLE USING LARGER LOAD WIDTH VALUE OF P/2 OR P/2 + O.H.
3. SELECT SCREEN ROOM FORTH WALL BEAM FROM TABLES 3A.1.3
4. ANCHORS BASED ON 123 MPH WIND VELOCITY. FOR HIGHER WIND ZONES USE THE FOLLOWING CONVERSION:

100-123	130	140	150
#8	#10	#12	#12

TYPICAL SCREEN ROOM

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

Down & Country
INDUSTRIES, INC.
Wholesale Aluminum Distributors

400 W. McNAB ROAD, FORT
LAUDERDALE, FLORIDA 33309
PHONE: (954) 972-1338
FAX: (954) 972-5019

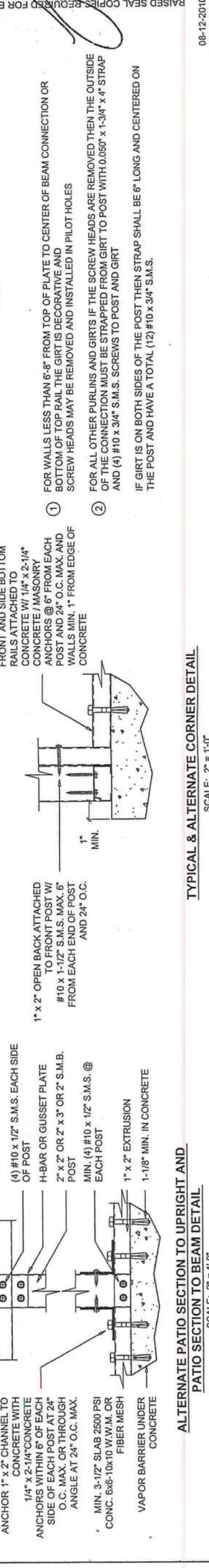
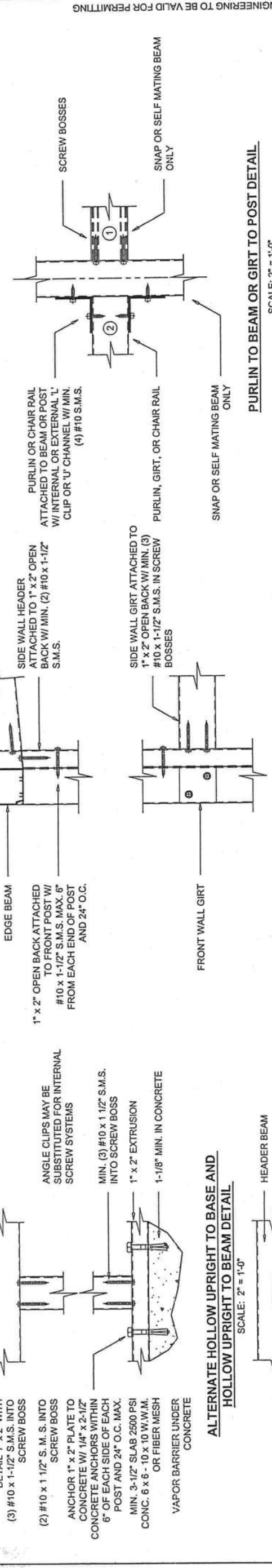
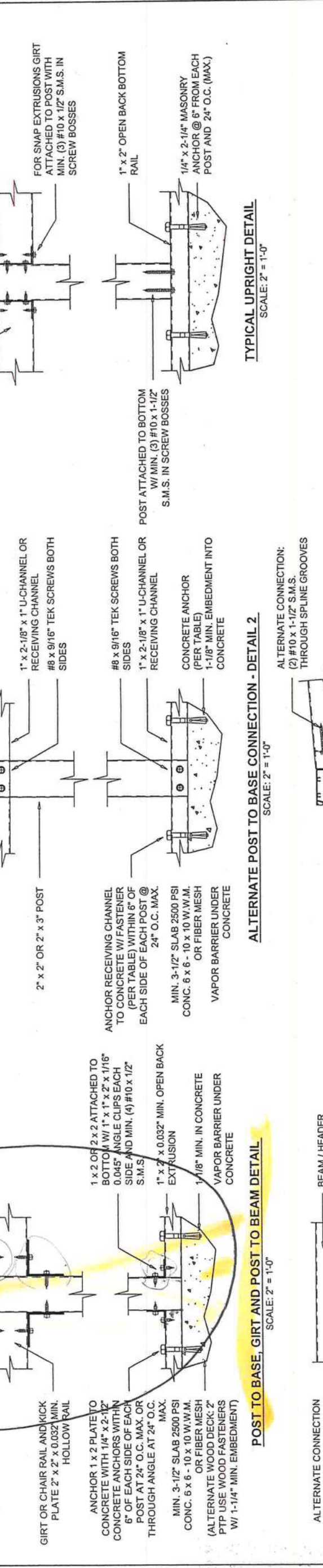
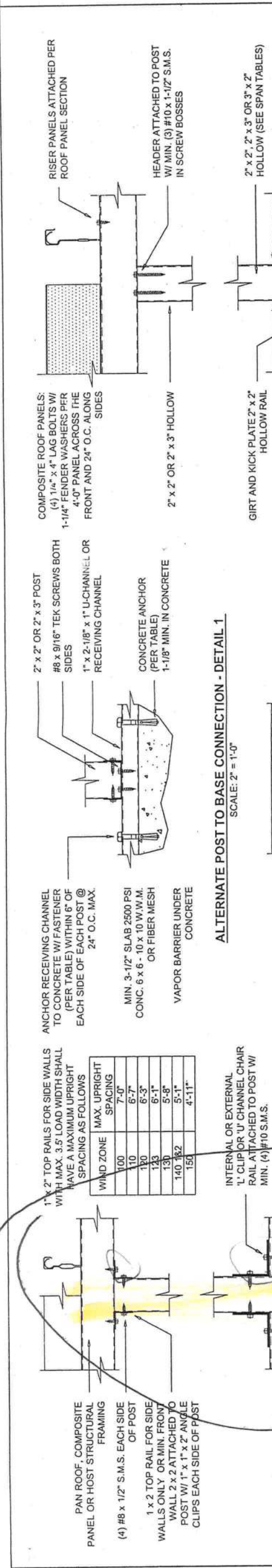
ALUMINUM STRUCTURES DESIGN MANUAL
SCREEN, ACRYLIC & VINYL ROOMS
SECTION 3A DETAILS

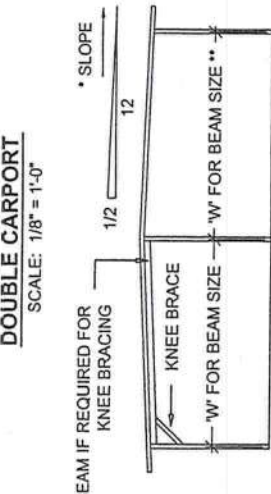
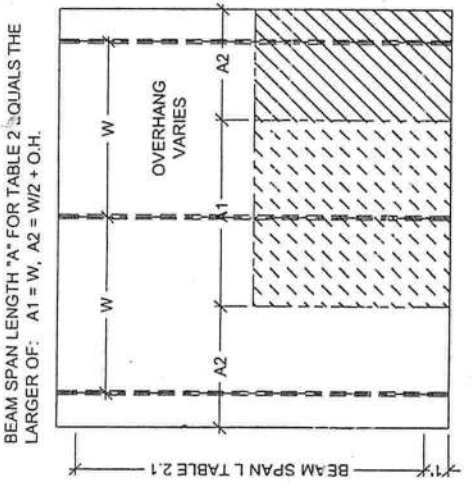
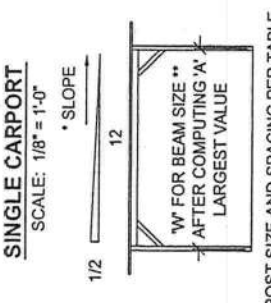
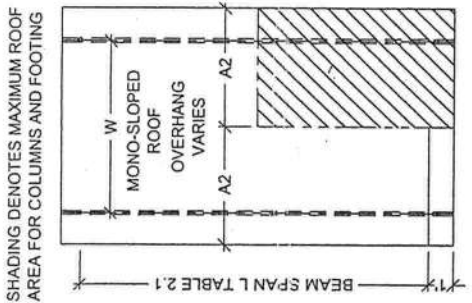
2007 FLORIDA BUILDING CODE (2009 SUPPLEMENTS) - 2010 EDITION

Lawrence E. Bennett, P.E. FL # 16644
CIVIL & STRUCTURAL ENGINEERING
P.O. Box 290036, Port Orange, FL 32129
Telephone #: (386) 767-4774 Fax #: (386) 767-6556
<http://www.lebpe.com/>

3
SHEET

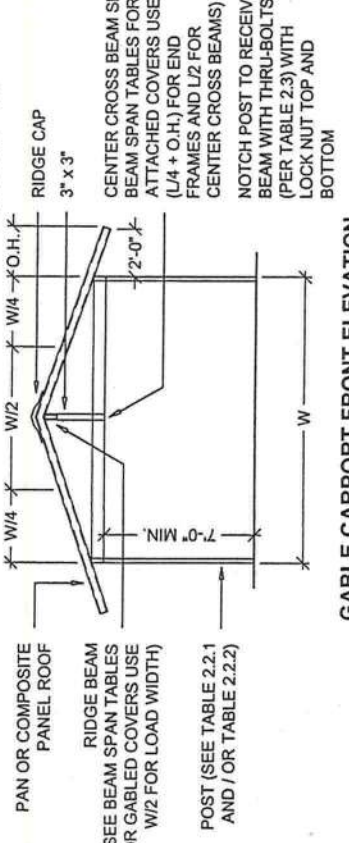
RAISED SEAL COPIES REQUIRED FOR ENGINEERING TO BE VALID FOR PERMITTING



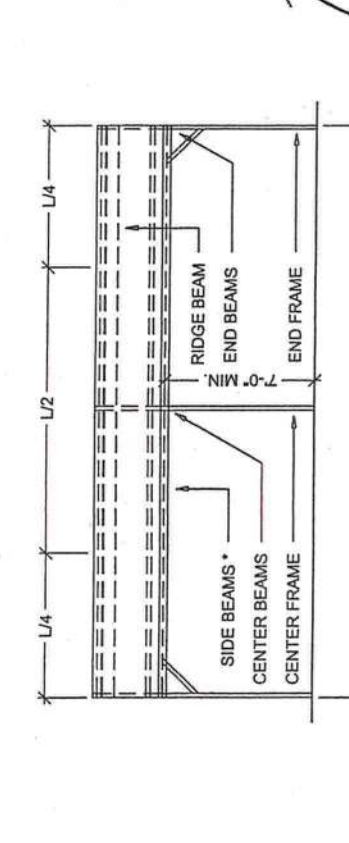


SINGLE CARPORT
SCALE: 1/8" = 1'-0"

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



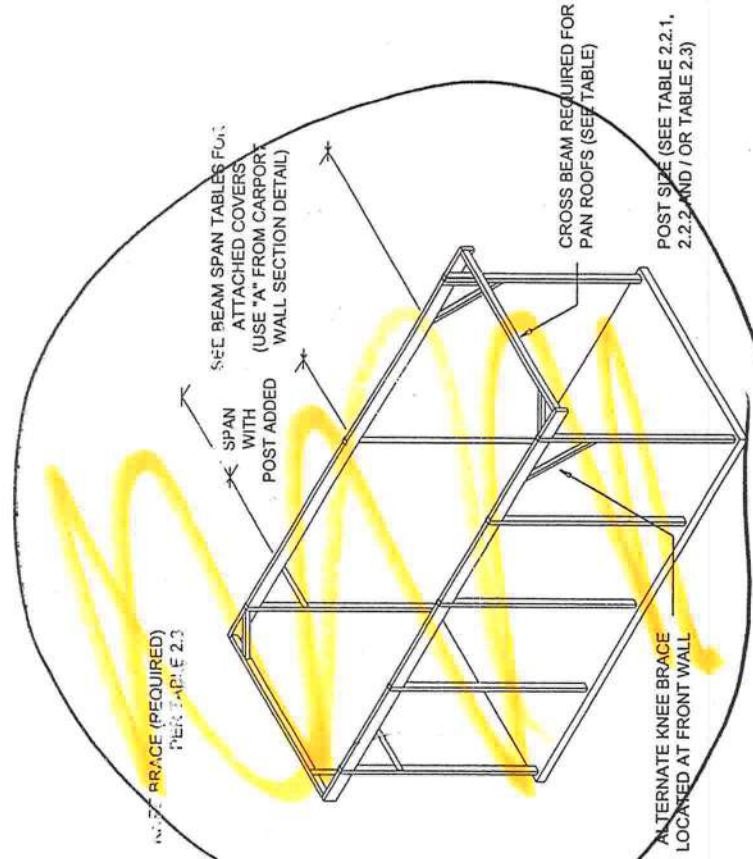
END VIEW SINGLE CARPORT
SCALE: 1/8" = 1'-0"



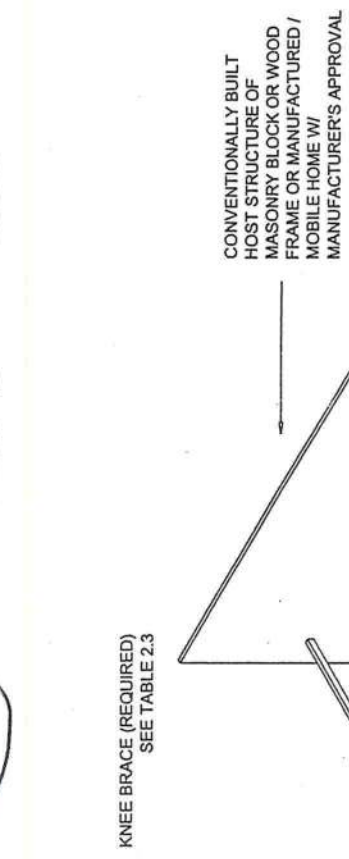
END VIEW DOUBLE CARPORT (GABLED)
SCALE: 1/8" = 1'-0"



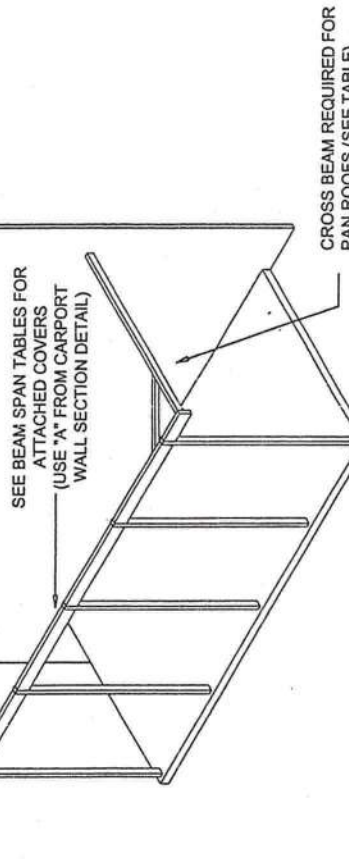
GABLE CARPORT FRONT ELEVATION
SCALE: 1/8" = 1'-0"



SINGLE BAY OR DOUBLE BAY CARPORT FOURTH WALL FRAME
SCALE: 1/8" = 1'-0"



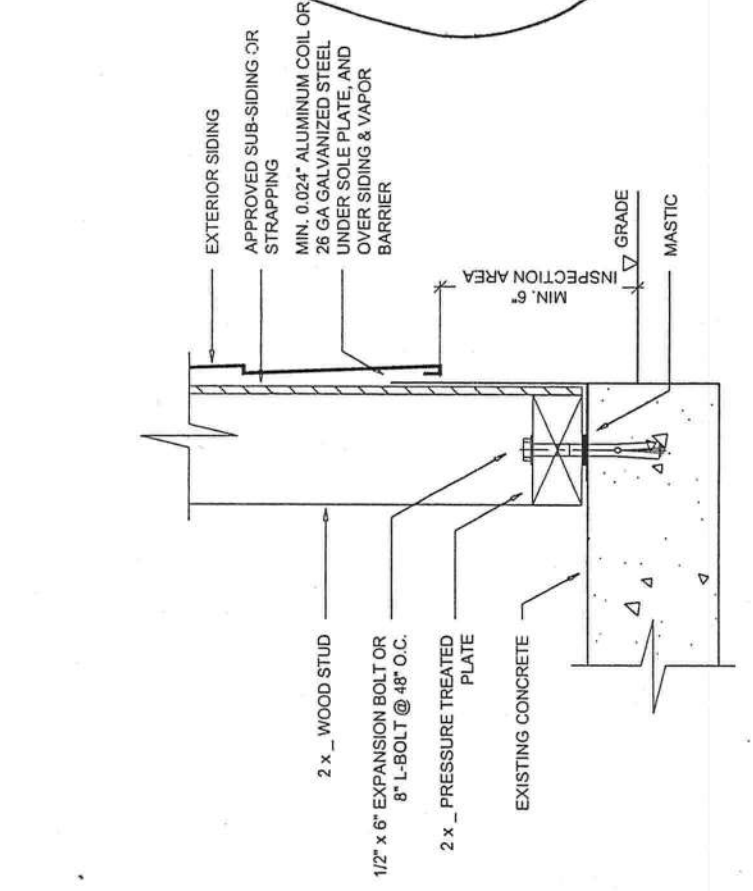
TERMITE SHIELD FOR WOOD STRUCTURES ON EXISTING CONCRETE
SCALE: 2" = 1'-0"



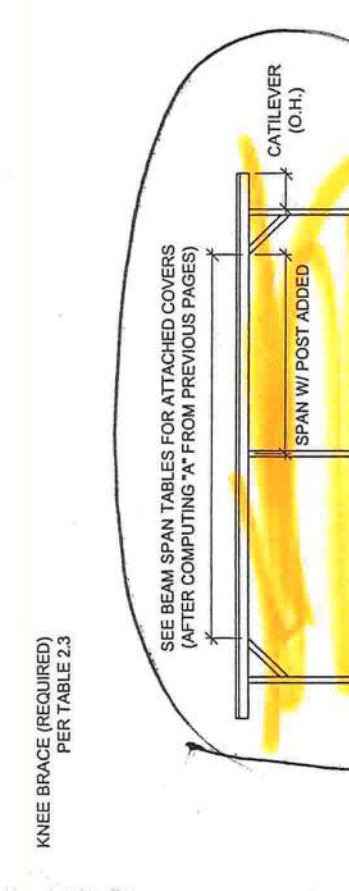
SINGLE BAY OR DOUBLE BAY CARPORT WITHOUT FOURTH WALL FRAME
SCALE: 1/8" = 1'-0"



SELECT BEAM FROM BEAM SPAN TABLES FOR ATTACHED COVERS
POST SIZE (SEE TABLE 2.2.1, 2.2.2 AND / OR TABLE 2.3)



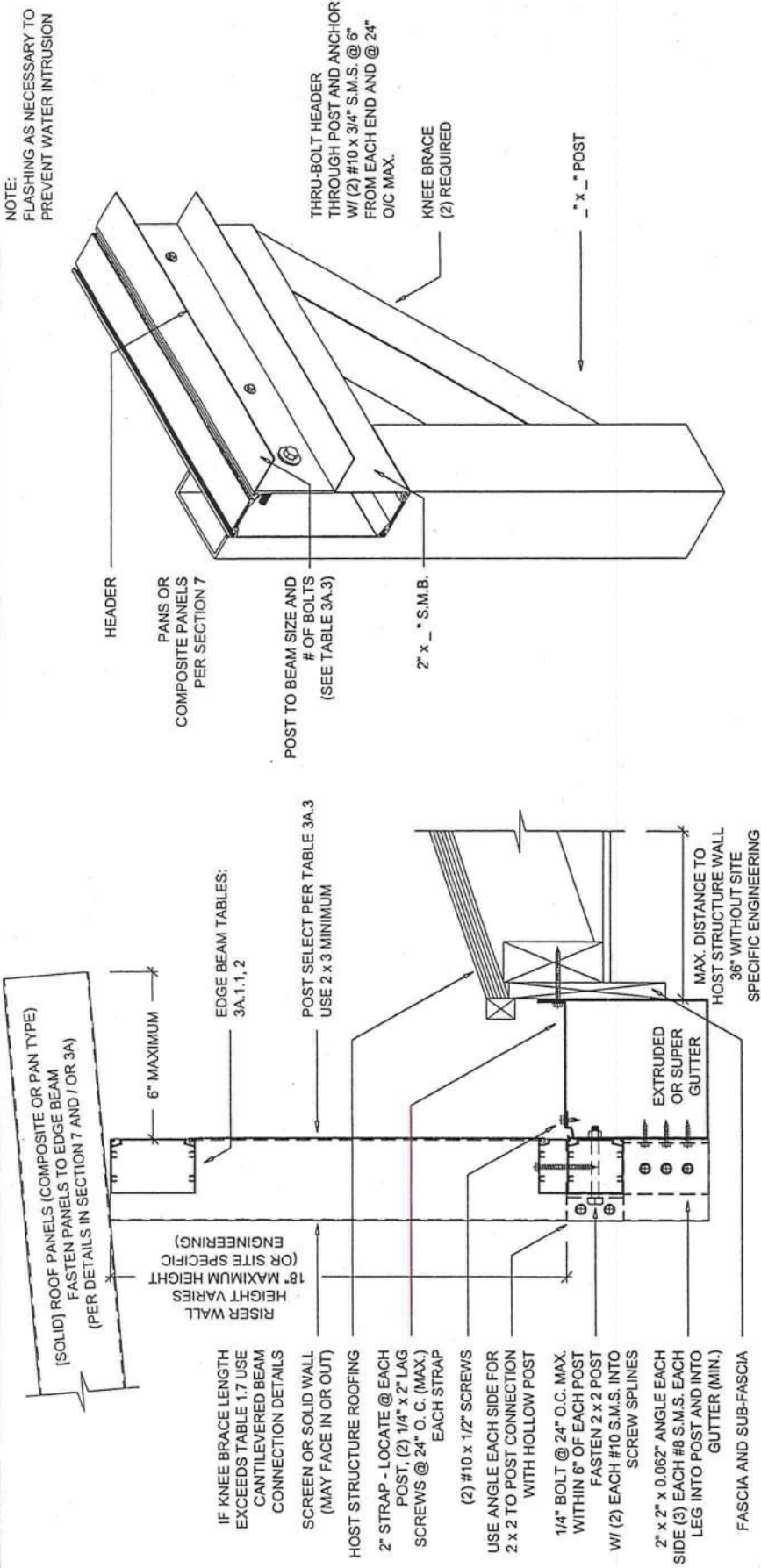
SIDE VIEW SINGLE BAY OR DOUBLE BAY CARPORT FOURTH WALL FRAME
SCALE: 1/8" = 1'-0"



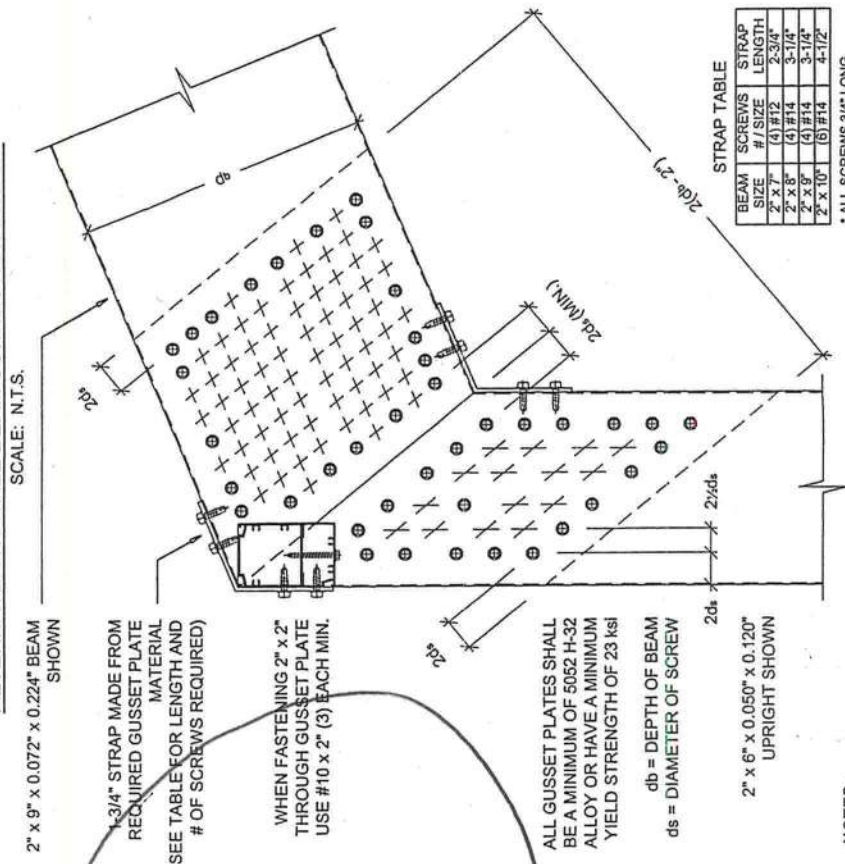
ALLOWABLE CROSS BEAM SPANS FOR ATTACHED CARPORTS OR PATIO COVERS AT VARIOUS WIND LOADS

Snap Sections	Wind Zone and Design Load											
	100 MPH 16.6 PSF	110 MPH 17.7 PSF	120 MPH 18.8 PSF	130 MPH 19.9 PSF	140-1 MPH 21.1 PSF	140-2 MPH 22.2 PSF	140-3 MPH 23.3 PSF	140-4 MPH 24.4 PSF	140-5 MPH 25.5 PSF	140-6 MPH 26.6 PSF	140-7 MPH 27.7 PSF	140-8 MPH 28.8 PSF
2" x 2" x 0.050"	9'-3"	8'-11"	7'-11"	7'-0"	6'-9"	6'-7"	6'-5"	6'-3"	6'-1"	5'-11"	5'-9"	5'-7"
2" x 3" x 0.045"	12'-1"	11'-9"	10'-9"	10'-6"	9'-11"	9'-3"	8'-11"	8'-7"	8'-4"	8'-1"	7'-11"	7'-9"
2" x 4" x 0.045"	14'-1"	13'-9"	12'-9"	12'-2"	11'-5"	10'-9"	10'-6"	10'-3"	10'-0"	9'-7"	9'-4"	9'-1"
2" x 6" x 0.062"	25'-8"	24'-10"	22'-9"	22'-2"	21'-0"	19'-6"	18'-10"	18'-2"	17'-10"	16'-10"	16'-2"	15'-10"
2" x 7" x 0.062"	30'-3"	27'-4"	25'-1"	24'-5"	23'-1"	21'-6"	20'-9"	20'-1"	19'-10"	18'-10"	18'-2"	17'-10"
Self-Draining Beams	100 MPH 16.6 PSF	110 MPH 17.7 PSF	120 MPH 18.8 PSF	130 MPH 19.9 PSF	140-1 MPH 21.1 PSF	140-2 MPH 22.2 PSF	140-3 MPH 23.3 PSF	140-4 MPH 24.4 PSF	140-5 MPH 25.5 PSF	140-6 MPH 26.6 PSF	140-7 MPH 27.7 PSF	140-8 MPH 28.8 PSF
2" x 5" x 0.050" 0.100"	18'-4"	17'-9"	16'-3"	15'-11"	15'-0"	13'-11"	13'-6"	13'-0"	12'-11"	12'-0"	11'-9"	11'-8"

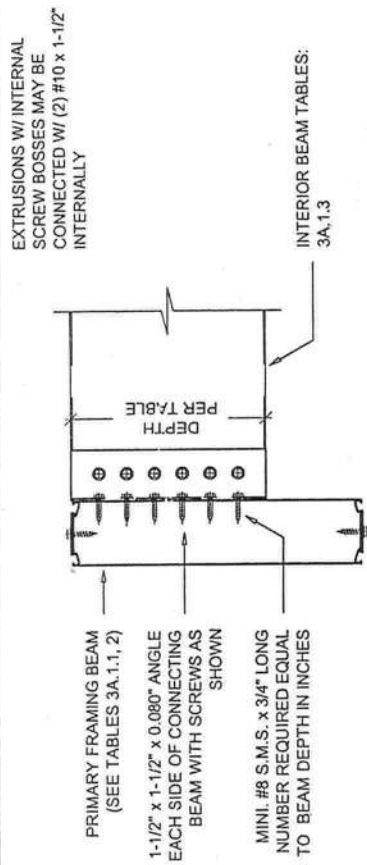
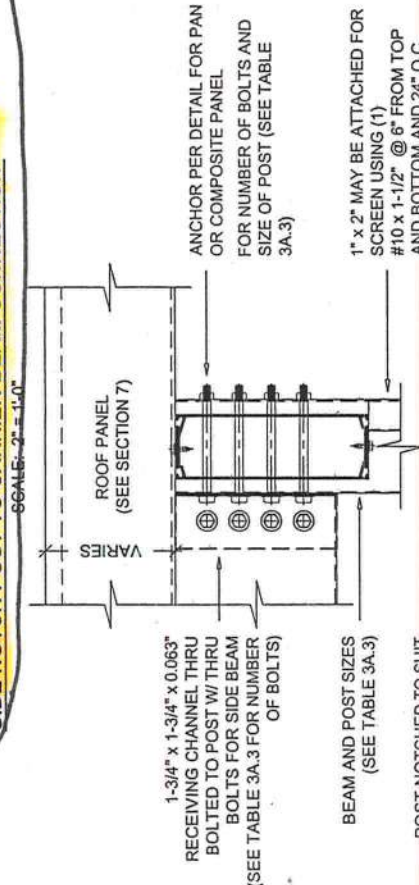
Note:
1. Spans may be interpolated.
2. Pan roofs require cross beams.



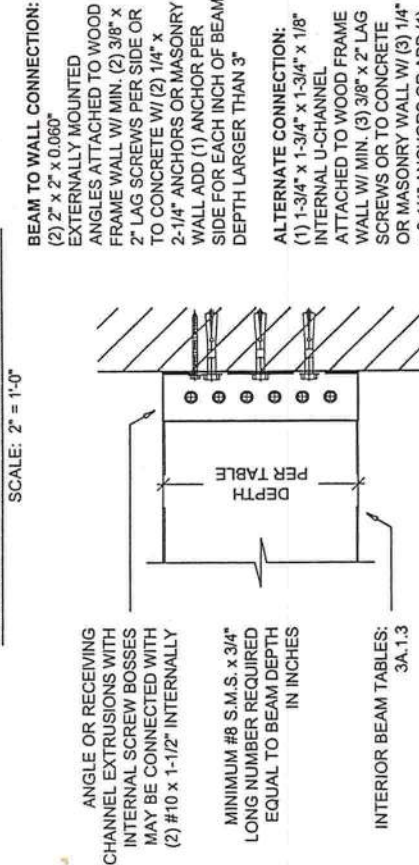
ALTERNATE 4TH WALL BEAM CONNECTION DETAIL



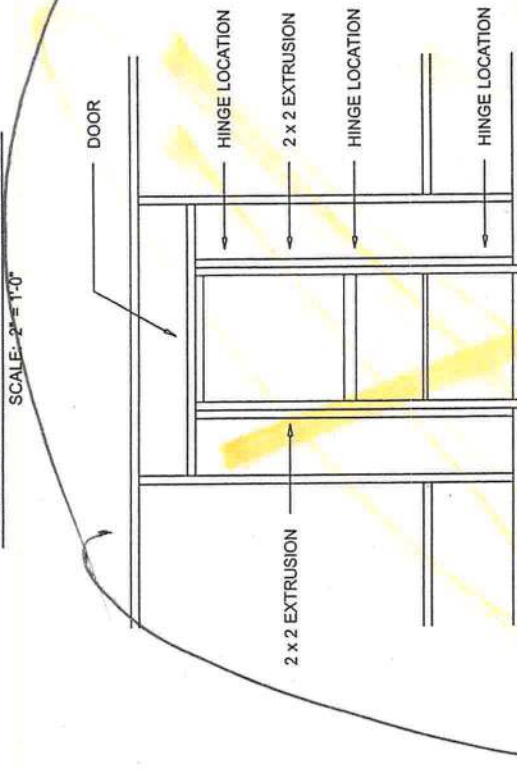
SIDE NOTCH POST TO CARRIER BEAM CONNECTION

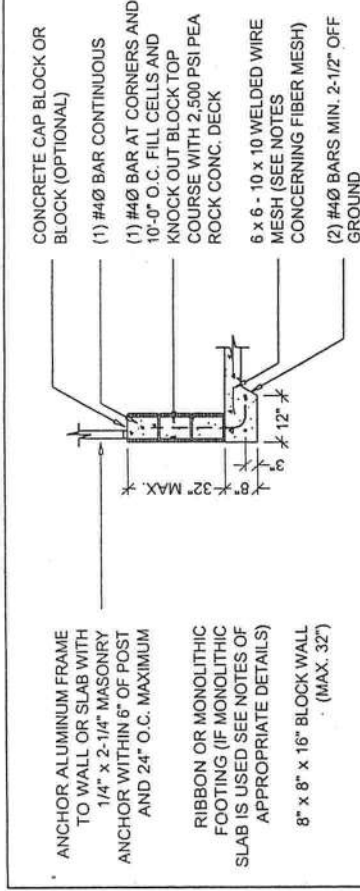


BEAM TO BEAM CONNECTION DETAIL

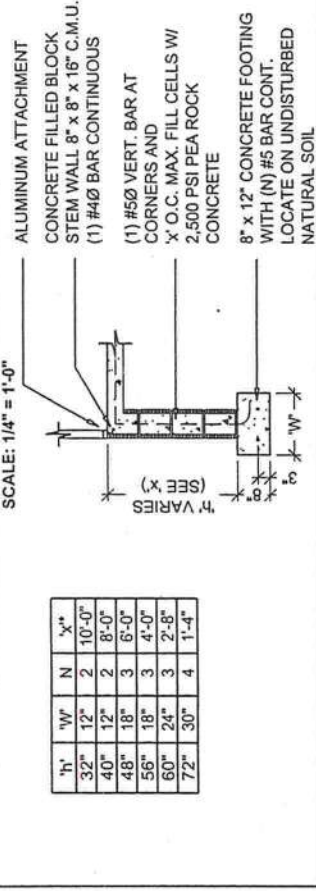


BEAM TO WALL CONNECTION DETAIL





KNEE WALL FOOTING FOR SCREENED ROOMS
SCALE: 1/4" = 1'-0"



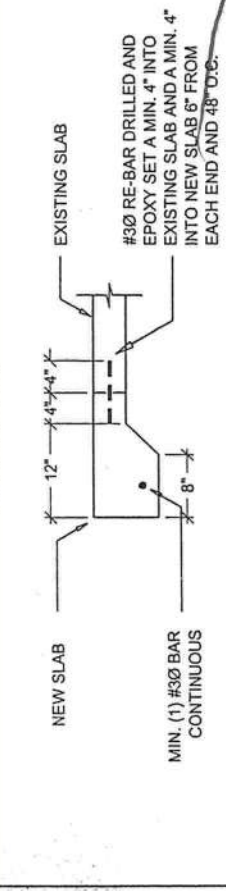
KNEE WALL ATTACHMENT
SCALE: 1/4" = 1'-0"

Notes:

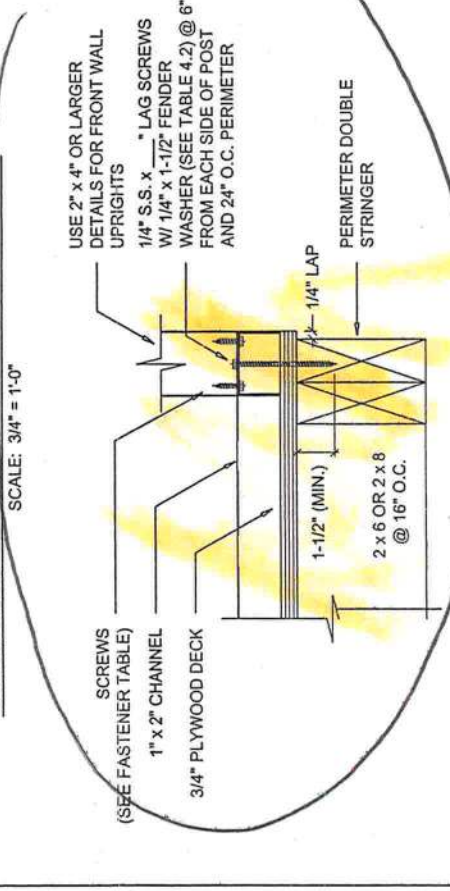
- 3-1/2" concrete slab with 6 x 6 - 10 x 10 welded wire mesh or crack control fiber mesh: Fibermesh® Mesh, InForce™ e3™ (Formerly Fibermesh MD) per manufacturer's specification may be used in lieu of wire mesh. Visqueen vapor barrier under slabs having structures above compacted clean fill over (scarified)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

RAISED PATIO FOOTING

KNEE WALL FOOTING FOR SCREENED ROOMS
SCALE: 1/4" = 1'-0"



DOWEL DETAIL FOR EXTENDING EXISTING 4" SLAB
SCALE: 3/4" = 1'-0"

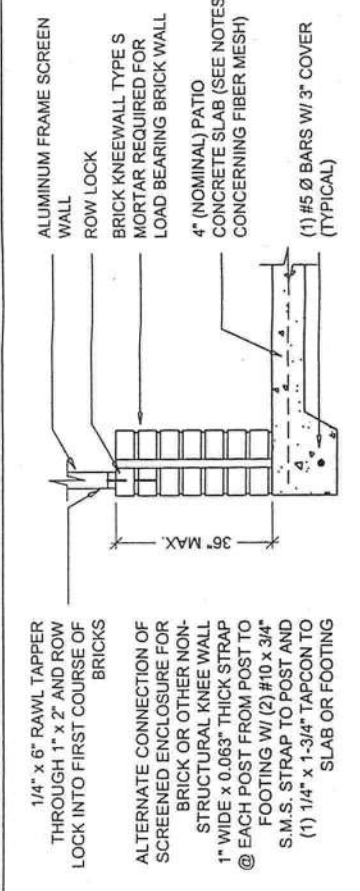


ALTERNATE WOOD DECKS AND FASTENER LENGTHS

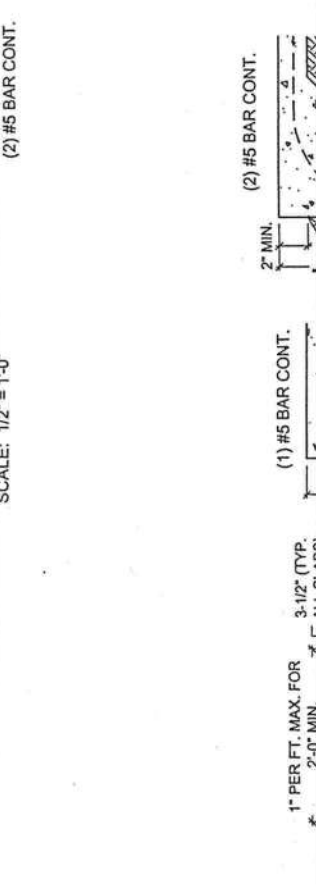
3/4" P.T.P. Plywood	2'-1/2"
5/4" P.T.P. or Tek Deck	3'-3/4"
2" P.T.P.	4"

SCREEN ROOM WALL TO WOOD DECK

SCALE: 3" = 1'-0"



BRICK KNEE WALL AND FOUNDATION FOR SCREEN WALLS
SCALE: 1/2" = 1'-0"



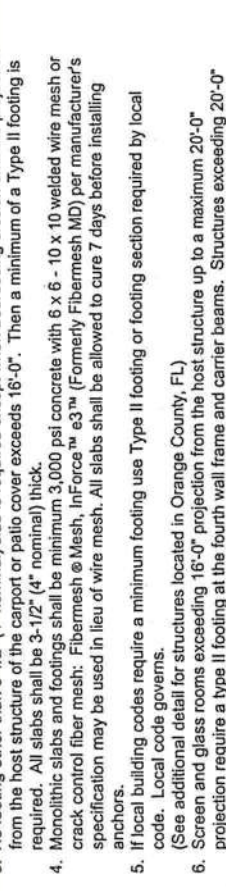
MINIMUM FOOTING DETAIL FOR STRUCTURES IN ORANGE COUNTY, FLORIDA
SCALE: 1/2" = 1'-0"

Notes:

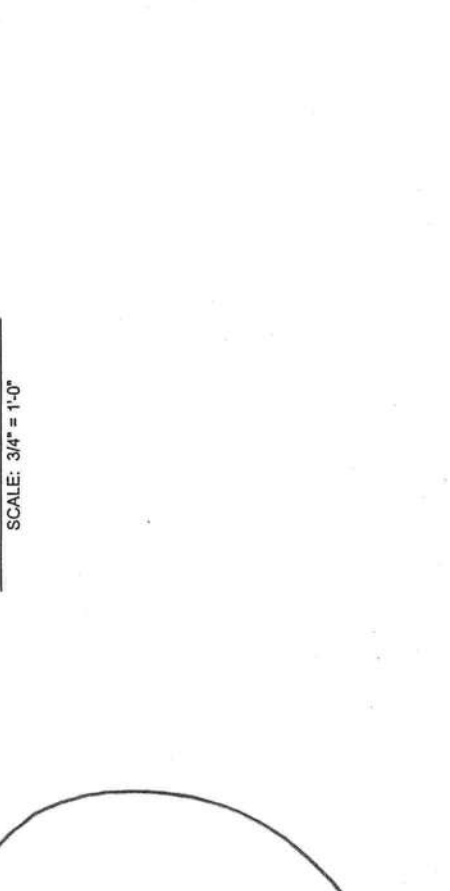
- All connections to slabs or footings shown in this section may be used with the above footing.
- Knee wall details may also be used with this footing.
- All applicable notes to knee wall details or connection details to be substituted shall be complied with.
- Crack Control Fiber Mesh: Fibermesh® Mesh, InForce™ e3™ (Formerly Fibermesh MD) per manufacturer's specification may be used in lieu of wire mesh.

TYPICAL CONNECTION OF PROPOSED FOOTING TO EXISTING FOOTING

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



SLAB-FOOTING DETAILS
SCALE: 3/4" = 1'-0"

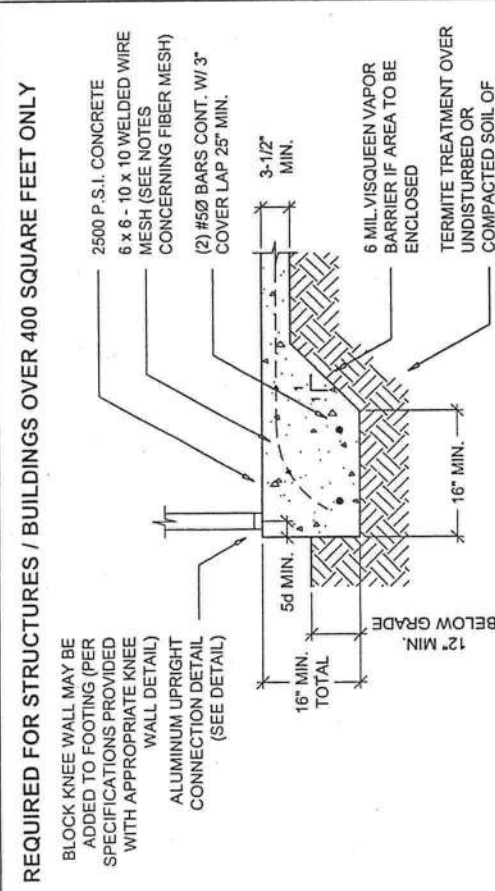


ALUMINUM SCREEN ROOM (NON LOAD BEARING) WALL UNDER WOOD FRAME PORCH

3/4" P.T.P. Plywood	2'-1/2"
5/4" P.T.P. or Tek Deck	3'-3/4"
2" P.T.P.	4"

SCREEN ROOM WALL TO WOOD DECK

SCALE: 3" = 1'-0"



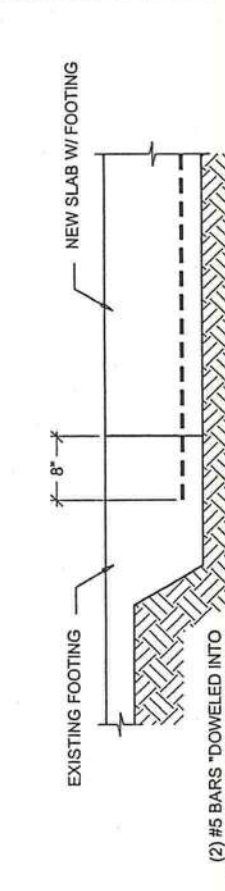
REQUIRED FOR STRUCTURES / BUILDINGS OVER 400 SQUARE FEET ONLY

Notes:

- All connections to slabs or footings shown in this section may be used with the above footing.
- Knee wall details may also be used with this footing.
- All applicable notes to knee wall details or connection details to be substituted shall be complied with.
- Crack Control Fiber Mesh: Fibermesh® Mesh, InForce™ e3™ (Formerly Fibermesh MD) per manufacturer's specification may be used in lieu of wire mesh.

MINIMUM FOOTING DETAIL FOR STRUCTURES IN ORANGE COUNTY, FLORIDA

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

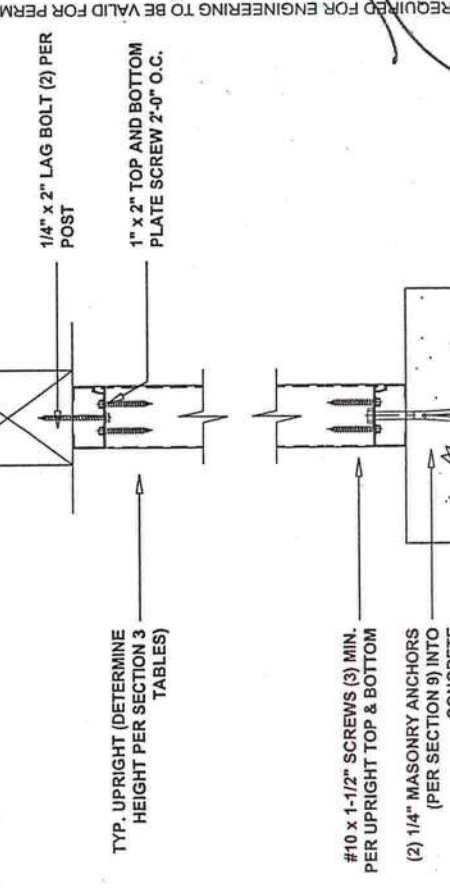


TYPICAL CONNECTION OF PROPOSED FOOTING TO EXISTING FOOTING

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



SLAB-FOOTING DETAILS
SCALE: 3/4" = 1'-0"

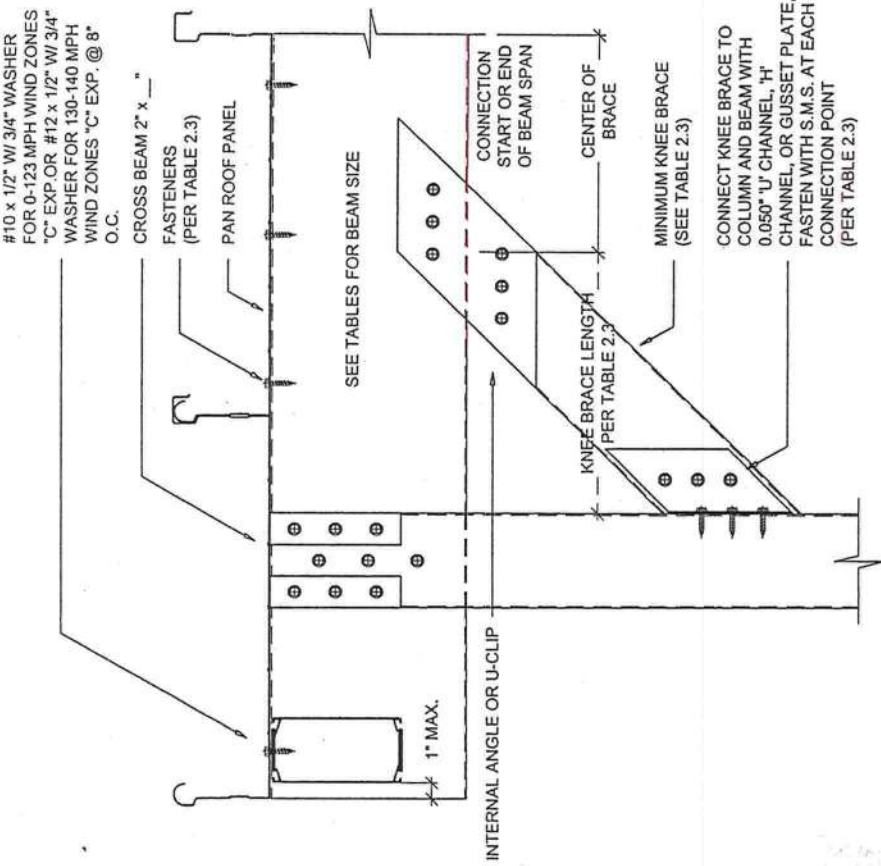


ALUMINUM SCREEN ROOM (NON LOAD BEARING) WALL UNDER WOOD FRAME PORCH

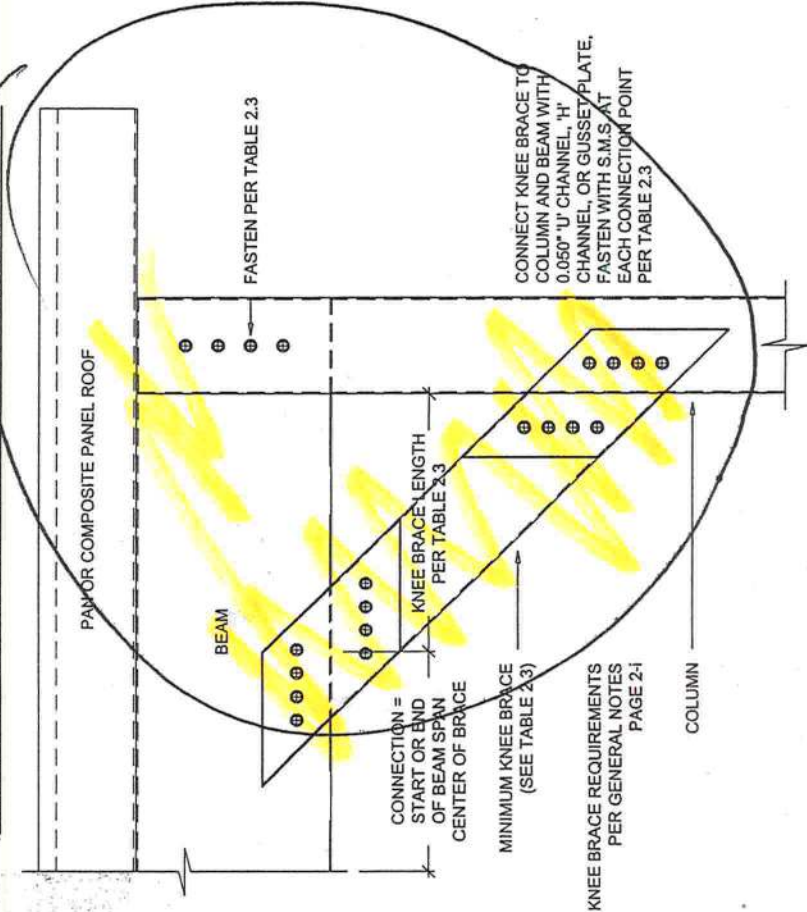
3/4" P.T.P. Plywood	2'-1/2"
5/4" P.T.P. or Tek Deck	3'-3/4"
2" P.T.P.	4"

SCREEN ROOM WALL TO WOOD DECK

SCALE: 3" = 1'-0"



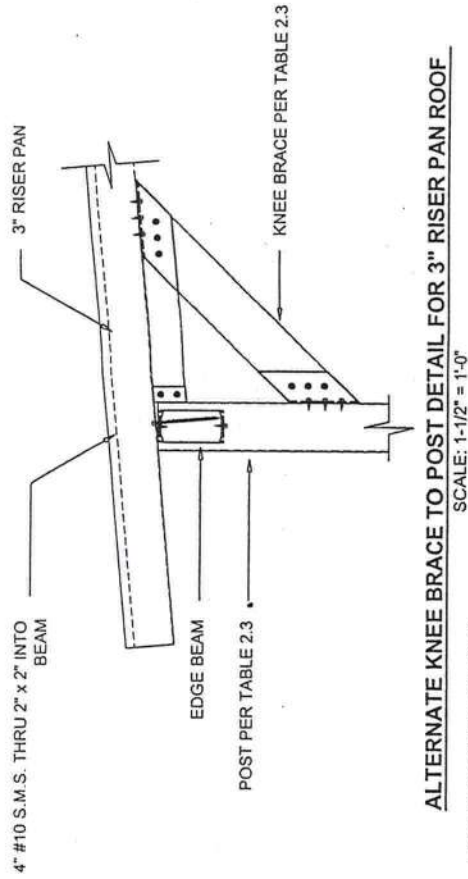
KNEE BRACE TO POST DETAIL - BEAM PERPENDICULAR TO ROOF



Notes:
Beams next to the host structure shall have a minimum of (4) # (Size varies with wind zone) x 3/4\"/>

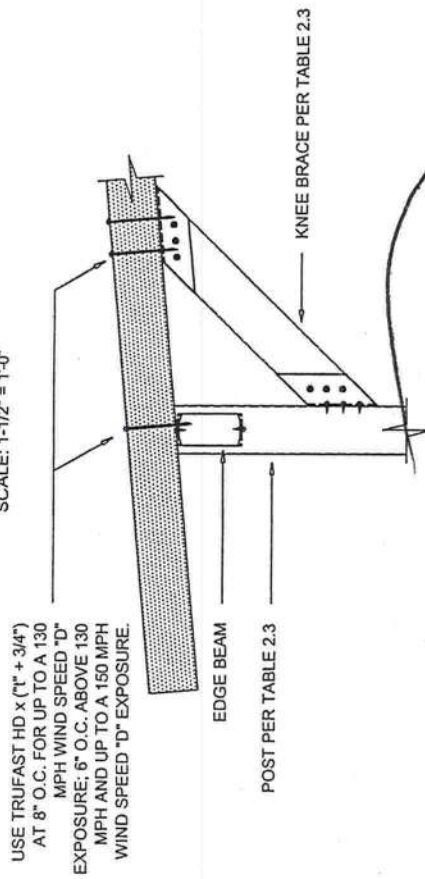
KNEE BRACE TO POST DETAIL - BEAM PARALLEL TO ROOF

SCALE: 2\"/>



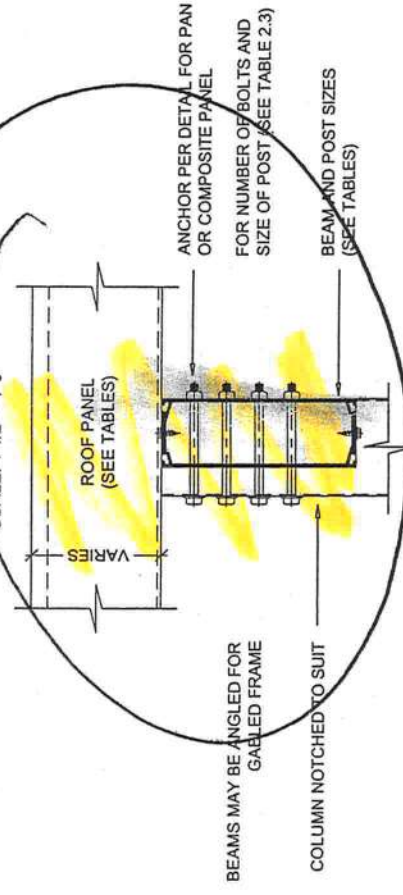
ALTERNATE KNEE BRACE TO POST DETAIL FOR 3\"/>

SCALE: 1-1/2\"/>



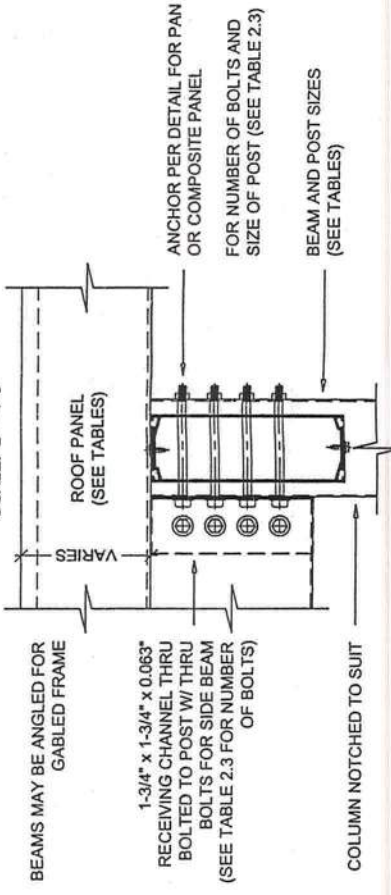
ALTERNATE KNEE BRACE TO POST DETAIL FOR COMPOSITE ROOF

SCALE: 1-1/2\"/>



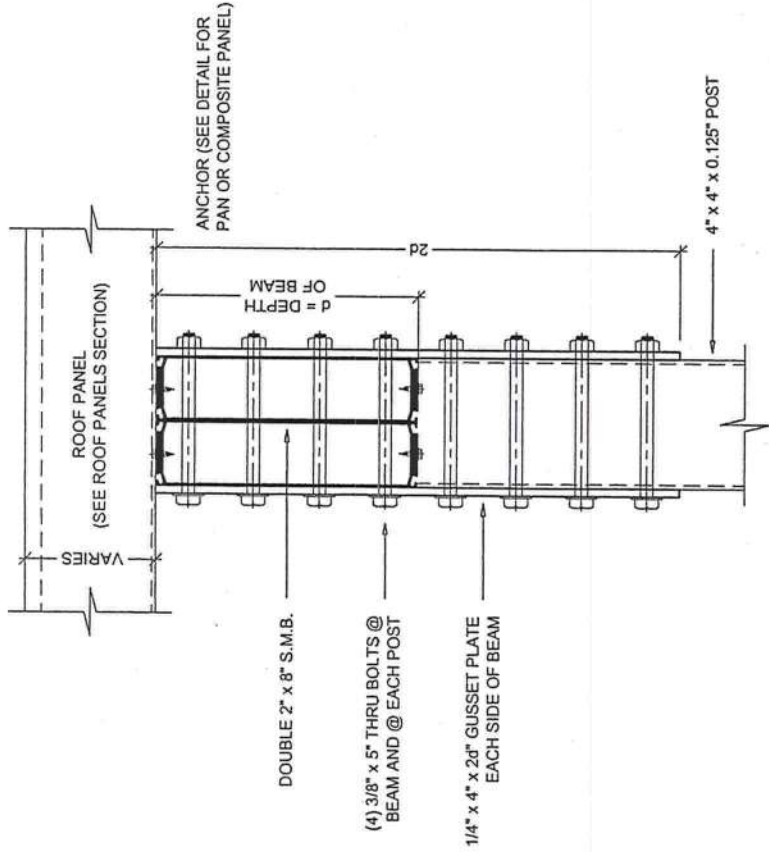
SIDE NOTCH POST TO BEAM CONNECTION

SCALE: 2\"/>



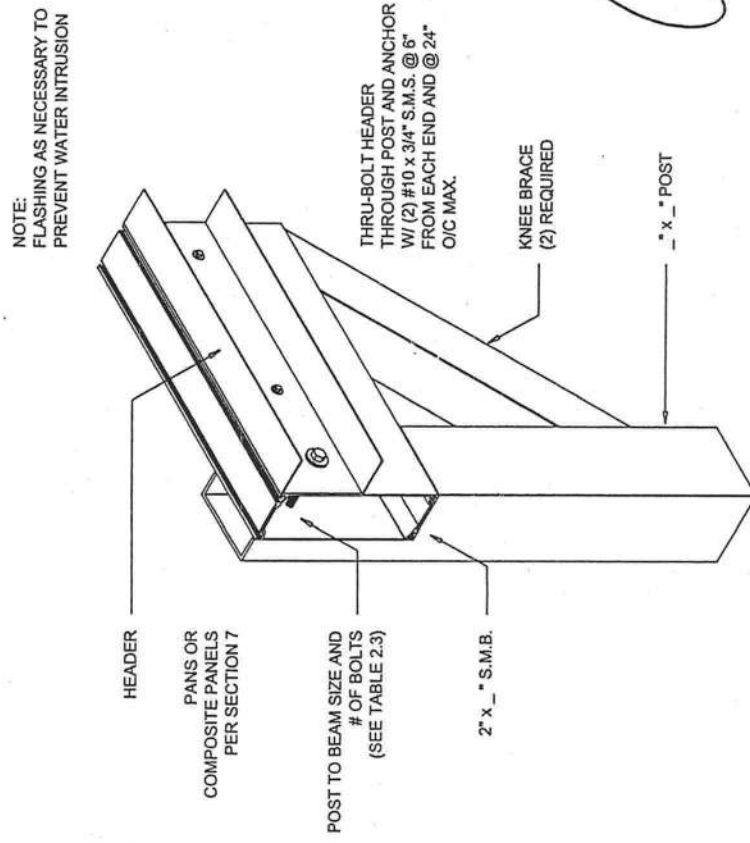
CENTER NOTCH POST TO BEAM CONNECTION

SCALE: 2\"/>



DOUBLE BEAM TO POST CONNECTION

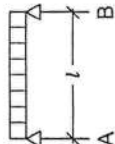
SCALE: 2\"/>



ALTERNATE 4TH WALL BEAM CONNECTION DETAIL

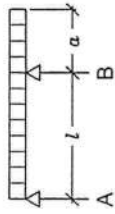
SCALE: N.T.S.

UNIFORM LOAD



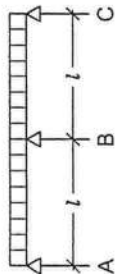
SINGLE SPAN CANTILEVER

UNIFORM LOAD



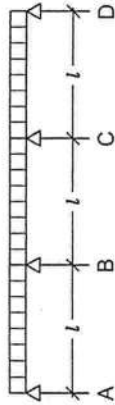
1 OR SINGLE SPAN

UNIFORM LOAD



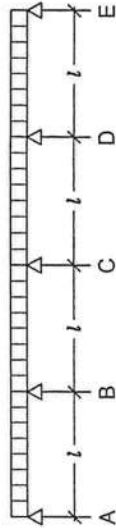
2 SPAN

UNIFORM LOAD



3 SPAN

UNIFORM LOAD



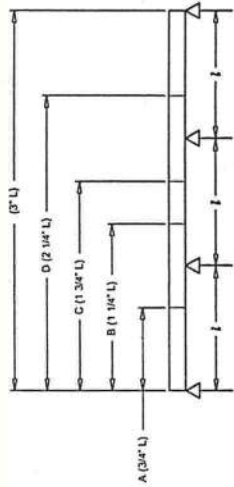
4 SPAN

NOTES:

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

SPAN EXAMPLES FOR SECTION 3 TABLES

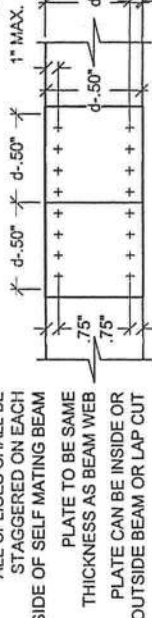
SCALE: N.T.S.



ALLOWABLE BEAM SPLICE LOCATIONS

SCALE: N.T.S.

SINGLE SPAN BEAM SPLICE @ 1/4 POINT OF BEAM SPAN ALL SPLICES SHALL BE STAGGERED ON EACH SIDE OF SELF MATING BEAM



HEIGHT 2 x (d - .50") LENGTH

Screw Size	ds (in.)	Minimum Distance and Spacing of Screws*		Gusset Plate	
		Edge to Center	Center to Center	Beam Size	Thickness (in.)
#8	0.16	3/8	7/16	2" x 7" x 0.055" x 0.120"	1/16" = 0.063
#10	0.19	3/8	7/16	2" x 8" x 0.072" x 0.224"	1/8" = 0.125
#12	0.21	7/16	9/16	2" x 9" x 0.072" x 0.224"	1/8" = 0.125
#14 or 1/4"	0.25	7/16	9/16	2" x 9" x 0.082" x 0.305"	1/8" = 0.125
3/16"	0.31	3/8	3/4	2" x 10" x 0.082" x 0.385"	1/4" = 0.25

* refer to each side of splice

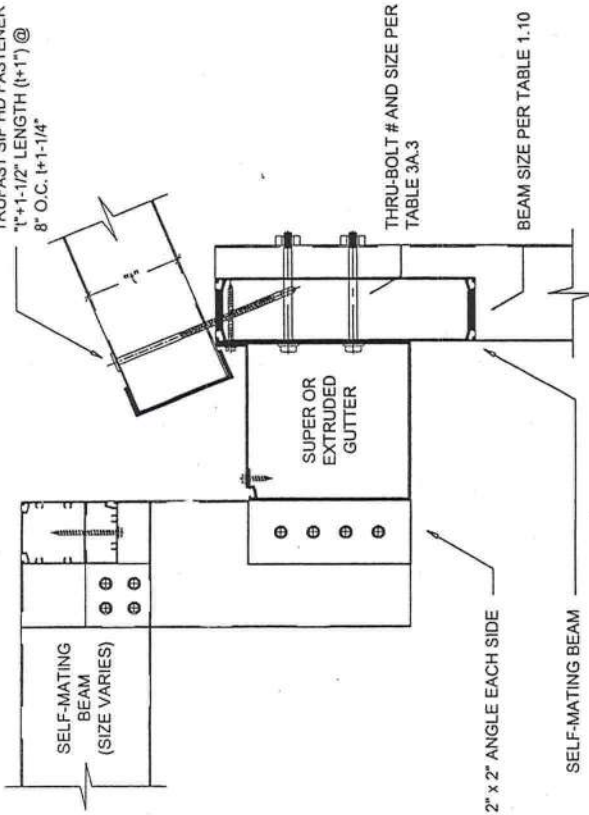
** use for 2" x 4" and 2" x 6" also

Note: 1. All gusset plates shall be minimum 6052 H-32 Alloy or have a minimum yield of 30 ksi.

TYPICAL BEAM SPLICE DETAIL

SCALE: 1" = 1'-0"

TRUFast SIP HD FASTENER
1" x 1-1/2" LENGTH (1" x 1") @
8" O.C. 1" x 1-1/4"



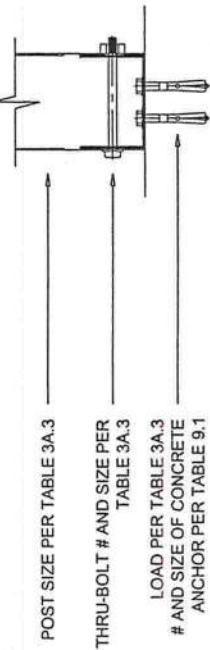
2" x 2" ANGLE EACH SIDE

SELF-MATING BEAM

BEAM SIZE PER TABLE 1.10

THRU-BOLT # AND SIZE PER TABLE 3A.3

SUPER OR EXTRUDED GUTTER



POST SIZE PER TABLE 3A.3

THRU-BOLT # AND SIZE PER TABLE 3A.3

LOAD PER TABLE 3A.3 # AND SIZE OF CONCRETE ANCHOR PER TABLE 9.1

ALTERNATE SELF-MATING BEAM CONNECTION TO SUPER OR EXTRUDED GUTTER

ALUMINUM STRUCTURES DESIGN MANUAL
SCREEN, ACRYLIC & VINYL ROOMS
SECTION 3A DETAILS

2007 FLORIDA BUILDING CODE (2009 SUPPLEMENTS) - 2010 EDITION

Lawrence E. Bennett, P.E. FL # 16644
CIVIL & STRUCTURAL ENGINEERING
P.O. Box 290036, Port Orange, FL 32129
Telephone #: (386) 767-4774 Fax #: (386) 767-6556
http://www.lebpe.com/

SHEET

7

08-12-2010 OF

12

RAISED SEAL COPIES REQUIRED FOR ENGINEERING TO BE VALID FOR PERMITTING

APR 17 2010
SEAL

Down & Country
Wholesale Aluminum Distributors
INDUSTRIES, INC.
400 W. McNab Road, Fort Lauderdale, Florida 33309
1-800-432-5019 FAX: (954) 970-9999
PHONE: (954) 972-1338

© BENNETT ENGINEERING GROUP 1994-2010 NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF LAWRENCE E. BENNETT, P.E.

NOTE

Aluminum metals that will come in contact with ferrous metal surfaces or concrete masonry products or pressure treated wood shall be coated w/ two coats of aluminum metal-and-masonry paint or a coat of heavy-bodied bituminous paint, or the wood or other absorbing material shall be painted with two coats of aluminum house paint and the joints sealed with a good quality caulking compound. The protective materials shall be as listed in section 2003.8.4.3 through 2003.8.4.6 of the Florida Building Code or Corroband Cold Galvanizing Primer and Finisher.

BASE WALL MIN. 1" IS THICKNESS OF REQUIRED POST. MAY BE THICKER

* ALUMINUM COATED POST (SEE TABLE)

(2) 2" x 2" x 1/2" ANGLE OR (1) U CHANNEL x 1"

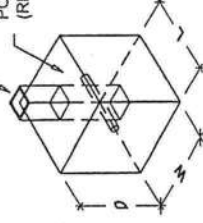
3/8" x 3-1/2" BOLT

80 LB. 2500 PSI CONCRETE PRE-MIX

3" EXTRUDED ALUMINUM BASE ALTERNATE: 3" BREAK FORMED 5052 H-32 ALUMINUM BASE

* COATED ALUMINUM POST IN CONCRETE #40 BAR 12" LONG

POURED CONCRETE (REFER TO TABLE 2.4)



ISOLATED FOOTING

SCALE: 2" = 1'-0"

ALUMINUM POST AND BURIED FOOTING CONNECTION

SCALE: 1" = 1'-0"

3" x 3" POST TURN BOLTED TO ANCHOR RISER

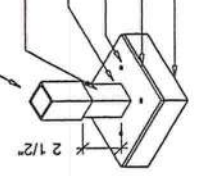
2-3/4" x 2-3/4" x 2-1/2" LONG x 1/8" TUBING

WELDED CONNECTION FASTEN (SEE FASTENER SECTION)

12" x 12" x 1/4" PLATE

3-1/2" CONC. SLAB

POST MAY BE FILLET WELDED DIRECTLY TO BASE PLATE



BASE ANCHOR CONNECTOR FOR POST TO SLAB CONNECTION

SCALE: 2" = 1'-0"

1" PER FT. MAX. FOR 2'-0" MIN. BEFORE SLOPE

3-1/2" (4" NOMINAL) ALL SLABS

(1) #50 BAR CONT.

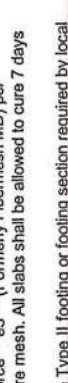
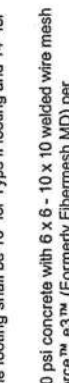
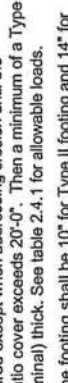
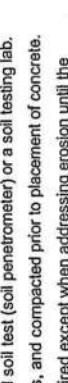
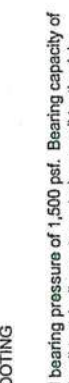
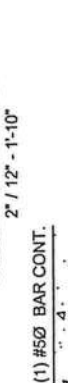
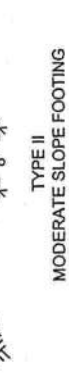
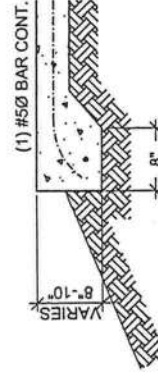
TYPE I FLAT SLOPE / NO FOOTING 0-2' / 12"

TYPE II MODERATE SLOPE FOOTING 2' / 12" - 1'-10"

TYPE III STEEP SLOPE FOOTING > 1'-10"

ANGLE 33° TO 45°

VARIES 12"-14"



NOTES:

- The foundations shown are based on a minimum soil bearing pressure of 1,500 psf. Bearing capacity of soil shall be verified, prior to placing the slab, by field soil test (soil penetrometer) or a soil testing lab.
- The slab / foundation shall be cleared of debris, roots, and compacted prior to placement of concrete.
- No footing other than 3-1/2" (4" nominal) slab is required except when addressing erosion until the projection from the host structure of the carport or patio cover exceeds 20'-0". Then a minimum of a Type II footing is required. All slabs shall be 3-1/2" (4" nominal) thick. See table 2.4.1 for allowable loads.
- For wood frame utility sheds the minimum depth of the footing shall be 10" for Type II footing and 14" for Type III footing with 6" Min. exposed above grade.
- Monolithic slabs and footings shall be minimum 2,500 psi concrete with 6 x 6 x 10 welded wire mesh or crack control fiber mesh: Fibermesh® e3™ (Formerly Fibermesh MD) per manufacturer's specification may be used in lieu of wire mesh. All slabs shall be allowed to cure 7 days before installing anchors.
- If local building codes require a minimum footing use Type II footing or footing section required by local code. Local code governs.

SLAB-FOOTING DETAILS

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

12" ALUMINUM PANEL ROOF (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL ROOF (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL ROOF (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL ROOF (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL ROOF (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL ROOF (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL ROOF (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL ROOF (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL ROOF (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL ROOF (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL ROOF (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL ROOF (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL ROOF (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL ROOF (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

12" ALUMINUM PANEL (SEE TABLE 2.5)

RECEIVING CHANNEL

Table 3A.1.1-120 Town & Country Industries, Inc.
Allowable Edge Beam Spans - Hollow Extrusions
6005 TCI

For 3 second wind gust at 120 MPH velocity; using design load of 13.0 #/SF (48.3 #/SF for Max. Cantilever)

2" x 2" x 0.040" Hollow		2" x 3" x 0.045" Hollow	
Load	Max. Span L'/(bending 'b' or deflection 'd')	Load	Max. Span L'/(bending 'b' or deflection 'd')
Width (ft.)	1&2 Span	Width (ft.)	1&2 Span
4	5'-6" d 6'-5" d 6'-11" d 7'-1" d	4	7'-8" d 9'-5" d 9'-7" d 1'-6" d
5	5'-1" d 6'-3" d 6'-5" d 6'-11" d	5	7'-1" d 8'-9" d 8'-11" d 1'-6" d
6	4'-9" d 5'-7" d 5'-9" d 6'-11" d	6	6'-8" d 8'-3" d 8'-5" d 1'-3" d
7	4'-7" d 5'-4" d 5'-6" d 6'-11" d	7	6'-4" d 7'-10" d 7'-11" d 1'-3" d
8	4'-4" d 5'-2" d 5'-3" d 6'-11" d	8	6'-1" d 7'-6" d 7'-8" d 1'-2" d
9	4'-2" d 5'-0" d 5'-1" d 6'-11" d	9	5'-10" d 7'-2" d 7'-4" d 1'-1" d
10	4'-1" d 4'-11" d 5'-1" d 6'-11" d	10	5'-7" d 6'-9" d 6'-11" d 1'-1" d
11	3'-11" d 4'-10" d 4'-11" d 6'-11" d	11	5'-5" d 6'-5" d 6'-8" b 1'-0" d
12	3'-10" d 4'-9" d 4'-9" b 6'-11" d	12	5'-3" d 6'-4" b 6'-4" b 1'-0" d

2" x 2" x 0.060" Hollow

Load	Max. Span L'/(bending 'b' or deflection 'd')
Width (ft.)	1&2 Span
4	8'-6" d 10'-5" d 10'-8" d 1'-7" d
5	7'-10" d 9'-8" d 9'-11" d 1'-6" d
6	7'-5" d 9'-2" d 9'-4" d 1'-5" d
7	7'-0" d 8'-8" d 8'-10" d 1'-4" d
8	6'-9" d 8'-4" d 8'-6" d 1'-3" d
9	6'-6" d 7'-11" d 8'-2" d 1'-3" d
10	6'-3" d 7'-8" d 7'-10" d 1'-2" d
11	6'-1" d 7'-6" d 7'-8" d 1'-2" d
12	5'-10" d 7'-3" d 7'-5" d 1'-1" d

3" x 2" x 0.045" Hollow

Load	Max. Span L'/(bending 'b' or deflection 'd')
Width (ft.)	1&2 Span
4	8'-6" d 10'-5" d 10'-8" d 1'-7" d
5	7'-10" d 9'-8" d 9'-11" d 1'-6" d
6	7'-5" d 9'-2" d 9'-4" d 1'-5" d
7	7'-0" d 8'-8" d 8'-10" d 1'-4" d
8	6'-9" d 8'-4" d 8'-6" d 1'-3" d
9	6'-6" d 7'-11" d 8'-2" d 1'-3" d
10	6'-3" d 7'-8" d 7'-10" d 1'-2" d
11	6'-1" d 7'-6" d 7'-8" d 1'-2" d
12	5'-10" d 7'-3" d 7'-5" d 1'-1" d

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

Table 3A.1.4-120 Town & Country Industries, Inc.
Allowable Spans for Ridge Beams with Self Mating Beams
6005 T-5

For 3 second wind gust at 120 MPH velocity; using design load of 13.0 #/SF

Self Mating Sections		Tributary Load Width W' = Purlin Spacing	
5'-0"	7'-0"	8'-0"	10'-0"
2" x 4" x 0.048" x 0.115"	13'-9" d 12'-11" d 12'-3" b 11'-6" b 10'-3" b 9'-10" b 9'-5" b	13'-9" d 12'-11" d 12'-3" b 11'-6" b 10'-3" b 9'-10" b 9'-5" b	13'-9" d 12'-11" d 12'-3" b 11'-6" b 10'-3" b 9'-10" b 9'-5" b
2" x 5" x 0.050" x 0.135"	16'-11" d 15'-11" d 15'-2" d 14'-6" d 13'-11" d 13'-3" b 12'-7" b 12'-1" b	16'-11" d 15'-11" d 15'-2" d 14'-6" d 13'-11" d 13'-3" b 12'-7" b 12'-1" b	16'-11" d 15'-11" d 15'-2" d 14'-6" d 13'-11" d 13'-3" b 12'-7" b 12'-1" b
2" x 6" x 0.050" x 0.135"	19'-11" d 18'-9" d 17'-10" d 16'-11" d 15'-11" b 15'-2" b 14'-5" b 13'-10" b	19'-11" d 18'-9" d 17'-10" d 16'-11" d 15'-11" b 15'-2" b 14'-5" b 13'-10" b	19'-11" d 18'-9" d 17'-10" d 16'-11" d 15'-11" b 15'-2" b 14'-5" b 13'-10" b
2" x 7" x 0.057" x 0.135"	22'-9" d 21'-5" d 20'-4" d 19'-6" d 18'-6" d 17'-7" b 16'-9" b 16'-0" b	22'-9" d 21'-5" d 20'-4" d 19'-6" d 18'-6" d 17'-7" b 16'-9" b 16'-0" b	22'-9" d 21'-5" d 20'-4" d 19'-6" d 18'-6" d 17'-7" b 16'-9" b 16'-0" b
2" x 8" x 0.072" x 0.240"	28'-1" d 26'-5" d 25'-1" d 24'-0" d 23'-1" d 22'-3" d 21'-5" d 20'-6" b	28'-1" d 26'-5" d 25'-1" d 24'-0" d 23'-1" d 22'-3" d 21'-5" d 20'-6" b	28'-1" d 26'-5" d 25'-1" d 24'-0" d 23'-1" d 22'-3" d 21'-5" d 20'-6" b
2" x 9" x 0.072" x 0.239"	30'-11" d 29'-1" d 27'-7" d 26'-5" d 25'-5" d 24'-6" b 23'-4" b 22'-4" b	30'-11" d 29'-1" d 27'-7" d 26'-5" d 25'-5" d 24'-6" b 23'-4" b 22'-4" b	30'-11" d 29'-1" d 27'-7" d 26'-5" d 25'-5" d 24'-6" b 23'-4" b 22'-4" b
2" x 9" x 0.082" x 0.321"	33'-1" d 31'-2" d 29'-7" d 28'-3" d 27'-2" d 26'-3" d 25'-5" d 24'-9" d	33'-1" d 31'-2" d 29'-7" d 28'-3" d 27'-2" d 26'-3" d 25'-5" d 24'-9" d	33'-1" d 31'-2" d 29'-7" d 28'-3" d 27'-2" d 26'-3" d 25'-5" d 24'-9" d
2" x 10" x 0.092" x 0.389"	38'-5" d 36'-1" d 34'-4" d 32'-10" d 31'-7" d 30'-6" d 29'-6" d 28'-8" d	38'-5" d 36'-1" d 34'-4" d 32'-10" d 31'-7" d 30'-6" d 29'-6" d 28'-8" d	38'-5" d 36'-1" d 34'-4" d 32'-10" d 31'-7" d 30'-6" d 29'-6" d 28'-8" d

Notes:
1. Tables assume extrusion oriented with longer extrusion dimension parallel to applied load.
2. Spans may be interpolated.

Table 3A.2 120 Town & Country Industries, Inc.
Allowable Upright Heights, Chair Rail Spans or Header Spans
6005 TCI

For Screen, Acrylic, or Vinyl Rooms and Under Solid Roof
Aluminum Alloy 6005 T-5

For 3 second wind gust at 120 MPH velocity; using design load of 15.0 #/SF

Sections		Tributary Load Width W' = Member Spacing	
3'-0"	4'-0"	5'-0"	6'-0"
2" x 2" x 0.040"	Hollow 7'-11" d 7'-5" b 6'-11" b 6'-2" d 5'-8" b 5'-3" b 5'-0" b	Hollow 7'-11" d 7'-5" b 6'-11" b 6'-2" d 5'-8" b 5'-3" b 5'-0" b	Hollow 7'-11" d 7'-5" b 6'-11" b 6'-2" d 5'-8" b 5'-3" b 5'-0" b
2" x 2" x 0.048"	Hollow 8'-3" d 7'-7" b 7'-1" b 6'-7" b 6'-1" d 5'-7" b 5'-2" b 5'-0" b	Hollow 8'-3" d 7'-7" b 7'-1" b 6'-7" b 6'-1" d 5'-7" b 5'-2" b 5'-0" b	Hollow 8'-3" d 7'-7" b 7'-1" b 6'-7" b 6'-1" d 5'-7" b 5'-2" b 5'-0" b
2" x 2" x 0.050"	Hollow 8'-3" d 7'-7" b 7'-1" b 6'-7" b 6'-1" d 5'-7" b 5'-2" b 5'-0" b	Hollow 8'-3" d 7'-7" b 7'-1" b 6'-7" b 6'-1" d 5'-7" b 5'-2" b 5'-0" b	Hollow 8'-3" d 7'-7" b 7'-1" b 6'-7" b 6'-1" d 5'-7" b 5'-2" b 5'-0" b
2" x 2" x 0.057"	Hollow 11'-11" d 10'-9" b 10'-3" b 9'-3" b 8'-10" b 8'-5" b 8'-1" b 7'-8" b	Hollow 11'-11" d 10'-9" b 10'-3" b 9'-3" b 8'-10" b 8'-5" b 8'-1" b 7'-8" b	Hollow 11'-11" d 10'-9" b 10'-3" b 9'-3" b 8'-10" b 8'-5" b 8'-1" b 7'-8" b
2" x 2" x 0.060"	Hollow 11'-11" d 10'-9" b 10'-3" b 9'-3" b 8'-10" b 8'-5" b 8'-1" b 7'-8" b	Hollow 11'-11" d 10'-9" b 10'-3" b 9'-3" b 8'-10" b 8'-5" b 8'-1" b 7'-8" b	Hollow 11'-11" d 10'-9" b 10'-3" b 9'-3" b 8'-10" b 8'-5" b 8'-1" b 7'-8" b
2" x 2" x 0.068"	S.M.B. 14'-7" d 13'-5" b 12'-8" b 11'-11" b 10'-10" b 10'-4" b 9'-11" b 9'-3" b	S.M.B. 14'-7" d 13'-5" b 12'-8" b 11'-11" b 10'-10" b 10'-4" b 9'-11" b 9'-3" b	S.M.B. 14'-7" d 13'-5" b 12'-8" b 11'-11" b 10'-10" b 10'-4" b 9'-11" b 9'-3" b
2" x 2" x 0.072"	S.M.B. 17'-7" d 16'-3" b 15'-3" b 14'-4" b 13'-7" b 12'-11" b 11'-11" b 11'-1" b	S.M.B. 17'-7" d 16'-3" b 15'-3" b 14'-4" b 13'-7" b 12'-11" b 11'-11" b 11'-1" b	S.M.B. 17'-7" d 16'-3" b 15'-3" b 14'-4" b 13'-7" b 12'-11" b 11'-11" b 11'-1" b
2" x 2" x 0.072"	S.M.B. 20'-4" d 18'-10" b 17'-8" b 16'-8" b 15'-9" b 15'-0" b 14'-5" b 13'-10" b	S.M.B. 20'-4" d 18'-10" b 17'-8" b 16'-8" b 15'-9" b 15'-0" b 14'-5" b 13'-10" b	S.M.B. 20'-4" d 18'-10" b 17'-8" b 16'-8" b 15'-9" b 15'-0" b 14'-5" b 13'-10" b
2" x 2" x 0.072"	S.M.B. 24'-5" d 22'-7" b 21'-2" b 19'-11" b 18'-11" b 18'-0" b 17'-3" b 16'-7" b	S.M.B. 24'-5" d 22'-7" b 21'-2" b 19'-11" b 18'-11" b 18'-0" b 17'-3" b 16'-7" b	S.M.B. 24'-5" d 22'-7" b 21'-2" b 19'-11" b 18'-11" b 18'-0" b 17'-3" b 16'-7" b
2" x 2" x 0.072"	S.M.B. 29'-11" d 27'-8" b 26'-5" b 25'-11" b 24'-5" b 23'-2" b 22'-1" b 21'-2" b	S.M.B. 29'-11" d 27'-8" b 26'-5" b 25'-11" b 24'-5" b 23'-2" b 22'-1" b 21'-2" b	S.M.B. 29'-11" d 27'-8" b 26'-5" b 25'-11" b 24'-5" b 23'-2" b 22'-1" b 21'-2" b
2" x 2" x 0.072"	S.M.B. 34'-8" d 32'-1" b 30'-0" b 28'-3" b 26'-10" b 25'-7" b 24'-6" b 23'-11" b	S.M.B. 34'-8" d 32'-1" b 30'-0" b 28'-3" b 26'-10" b 25'-7" b 24'-6" b 23'-11" b	S.M.B. 34'-8" d 32'-1" b 30'-0" b 28'-3" b 26'-10" b 25'-7" b 24'-6" b 23'-11" b
2" x 2" x 0.082"	S.M.B. 38'-8" d 35'-10" b 33'-5" b 31'-7" b 29'-11" b 28'-7" b 27'-4" b 26'-3" b	S.M.B. 38'-8" d 35'-10" b 33'-5" b 31'-7" b 29'-11" b 28'-7" b 27'-4" b 26'-3" b	S.M.B. 38'-8" d 35'-10" b 33'-5" b 31'-7" b 29'-11" b 28'-7" b 27'-4" b 26'-3" b
2" x 2" x 0.092"	S.M.B. 51'-5" d 48'-10" b 46'-9" d 44'-3" b 41'-11" b 40'-0" b 38'-4" b 36'-10" b	S.M.B. 51'-5" d 48'-10" b 46'-9" d 44'-3" b 41'-11" b 40'-0" b 38'-4" b 36'-10" b	S.M.B. 51'-5" d 48'-10" b 46'-9" d 44'-3" b 41'-11" b 40'-0" b 38'-4" b 36'-10" b

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

Table 3A.2 120 HST Allowable Upright Heights, Chair Rail Spans or Header Spans
for Screen, Acrylic or Vinyl Rooms
Aluminum Alloy 6003 T-6

For 3 second wind gust at 120 MPH velocity; using design load of 15.0 #/SF

Sections		Tributary Load Width W' = Purlin Spacing	
3'-0"	4'-0"	5'-0"	6'-0"
3" x 3" x 0.048"	Fluted 8'-5" b 7'-10" b 7'-4" b 6'-11" b 6'-6" b 6'-3" b 5'-11" b 5'-9" b	Fluted 8'-5" b 7'-10" b 7'-4" b 6'-11" b 6'-6" b 6'-3" b 5'-11" b 5'-9" b	Fluted 8'-5" b 7'-10" b 7'-4" b 6'-11" b 6'-6" b 6'-3" b 5'-11" b 5'-9" b
3" x 3" x 0.060"	Square 10'-5" b 9'-7" b 8'-11" b 8'-6" b 8'-0" b 7'-8" b 7'-4" b 7'-1" b	Square 10'-5" b 9'-7" b 8'-11" b 8'-6" b 8'-0" b 7'-8" b 7'-4" b 7'-1" b	Square 10'-5" b 9'-7" b 8'-11" b 8'-6" b 8'-0" b 7'-8" b 7'-4" b 7'-1" b
3" x 3" x 0.063"	Square 14'-11" b 13'-10" b 12'-11" b 12'-2" b 11'-7" b 11'-0" b 10'-7" b 10'-2" b	Square 14'-11" b 13'-10" b 12'-11" b 12'-2" b 11'-7" b 11'-0" b 10'-7" b 10'-2" b	Square 14'-11" b 13'-10" b 12'-11" b 12'-2" b 11'-7" b 11'-0" b 10'-7" b 10'-2" b
3" x 3" x 0.125"	Square 17'-9" b 16'-6" b 15'-5" b 14'-5" b 13'-9" b 13'-2" b 12'-7" b 12'-1" b	Square 17'-9" b 16'-6" b 15'-5" b 14'-5" b 13'-9" b 13'-2" b 12'-7" b 12'-1" b	Square 17'-9" b 16'-6" b 15'-5" b 14'-5" b 13'-9" b 13'-2" b 12'-7" b 12'-1" b
4" x 4" x 0.125"	Square 23'-0" b 21'-4" b 19'-11" b 18'-9" b 17'-10" b 16'-11" b 15'-8" b 15'-1" b	Square 23'-0" b 21'-4" b 19'-11" b 18'-9" b 17'-10" b 16'-11" b 15'-8" b 15'-1" b	Square 23'-0" b 21'-4" b 19'-11" b 18'-9" b 17'-10" b 16'-11" b 15'-8" b 15'-1" b

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

Table 3A.1.1-120 Town & Country Industries, Inc.
Allowable Edge Beam Spans - Hollow Extrusions
6005 TCI

For 3 second wind gust at 120 MPH velocity; using design load of 13.0 #/SF (48.3 #/SF for Max. Cantilever)

2" x 2" x 0.040" Hollow		2" x 3" x 0.045" Hollow	
Load	Max. Span L'/(bending 'b' or deflection 'd')	Load	Max. Span L'/(bending 'b' or deflection 'd')
Width (ft.)	1&2 Span	Width (ft.)	1&2 Span
4	5'-6" d 6'-5" d 6'-11" d 7'-1" d	4	7'-8" d 9'-5" d 9'-7" d 1'-6" d
5	5'-1" d 6'-3" d 6'-5" d 6'-11" d	5	7'-1" d 8'-9" d 8'-11" d 1'-6" d
6	4'-9" d 5'-7" d 5'-9" d 6'-11" d	6	6'-8" d 8'-3" d 8'-5" d 1'-3" d
7	4'-7" d 5'-4" d 5'-6" d 6'-11" d	7	6'-4" d 7'-10" d 7'-11" d 1'-3" d
8	4'-4" d 5'-2" d 5'-3" d 6'-11" d	8	6'-1" d 7'-6" d 7'-8" d 1'-2" d
9	4'-2" d 5'-0" d 5'-1" d 6'-11" d	9	5'-10" d 7'-2" d 7'-4" d 1'-1" d
10	4'-1" d 4'-11" d 5'-1" d 6'-11" d	10	5'-7" d 6'-9" d 6'-11" d 1'-1" d
11	3'-11" d 4'-10" d 4'-11" d 6'-11" d	11	5'-5" d 6'-5" d 6'-8" b 1'-0" d
12	3'-10" d 4'-9" d 4'-9" b 6'-11" d	12	5'-3" d 6'-4" b 6'-4" b 1'-0" d

2" x 2" x 0.060" Hollow

Load	Max. Span L'/(bending 'b' or deflection 'd')
Width (ft.)	1&2 Span
4	8'-6" d 10'-5" d 10'-8" d 1'-7" d
5	7'-10" d 9'-8" d 9'-11" d 1'-6" d
6	7'-5" d 9'-2" d 9'-4" d 1'-5" d
7	7'-0" d 8'-8" d 8'-10" d 1'-4" d
8	6'-9" d 8'-4" d 8'-6" d 1'-3" d
9	6'-6" d 7'-11" d 8'-2" d 1'-3" d
10	6'-3" d 7'-8" d 7'-10" d 1'-2" d
11	6'-1" d 7'-6" d 7'-8" d 1'-2" d
12	5'-10" d 7'-3" d 7'-5" d 1'-1" d

3" x 2" x 0.045" Hollow

Load	Max. Span L'/(bending 'b' or deflection 'd')
Width (ft.)	1&2 Span
4	8'-6" d 10'-5" d 10'-8" d 1'-7" d
5	7'-10" d 9'-8" d 9'-11" d 1'-6" d
6	7'-5" d 9'-2" d 9'-4" d 1'-5" d
7	7'-0" d 8'-8" d 8'-10" d 1'-4" d
8	6'-9" d 8'-4" d 8'-6" d 1'-3" d
9	6'-6" d 7'-11" d 8'-2" d 1'-3" d
10	6'-3" d 7'-8" d 7'-10" d 1'-2" d
11	6'-1" d 7'-6" d 7'-8" d 1'-2" d
12	5'-10" d 7'-3" d 7'-5" d 1'-1" d

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

Table 3A.1.3-120 Town & Country Industries, Inc.
Allowable Beam Spans for Miscellaneous Framing Beams for Screen, Acrylic or Vinyl Rooms
6005 TCI

For 3 second wind gust at 120 MPH velocity; using design load of 13.0 #/SF

Hollow Beams		Tributary Load Width	
2'-0"	3'-0"	4'-0"	5'-0"
2" x 4" x 0.050"	12'-6" d 10'-11" d 9'-11" d 8'-3" d	2" x 4" x 0.050" 12'-6" d 10'-11" d 9'-11" d 8'-3" d	2" x 4" x 0.050" 12'-6" d 10'-11" d 9'-11" d 8'-3" d
2" x 4" x 0.048"	13'-11" d 12'-2" d 11'-1" d 10'-3" d	2" x 4" x 0.048" 13'-11" d 12'-2" d 11'-1" d 10'-3" d	2" x 4" x 0.048" 13'-11" d 12'-2" d 11'-1" d 10'-3" d
2" x 5" x 0.050" x 0.135"	17'-2" d 15'-0" d 13'-8" d 12'-8" d	2" x 5" x 0.050" x 0.135" 17'-2" d 15'-0" d 13'-8" d 12'-8" d	2" x 5" x 0.050" x 0.135" 17'-2" d 15'-0" d 13'-8" d 12'-8" d
2" x 6" x 0.050" x 0.135"	20'-2" d 17'-7" d 16'-0" d 14'-10" d	2" x 6" x 0.050" x 0.135" 20'-2" d 17'-7" d 16'-0" d 14'-10" d	2" x 6" x 0.050" x 0.135" 20'-2" d 17'-7" d 16'-0" d 14'-10" d
2" x 7" x 0.057" x 0.135"	23'-1" d 20'-2" d 18'-4" d 16'-11" d	2" x 7" x 0.057" x 0.135" 23'-1" d 20'-2" d 18'-4" d 16'-11" d	2" x 7" x 0.057" x 0.135" 23'-1" d 20'-2" d 18'-4" d 16'-11" d
2" x 8" x 0.072" x 0.240"	28'-5" d 24'-10" d 22'-7" d 20'-11" d	2" x 8" x 0.072" x 0.240" 28'-5" d 24'-10" d 22'-7" d 20'-11" d	2" x 8" x 0.072" x 0.240" 28'-5" d 24'-10" d 22'-7" d 20'-11" d
2" x 9" x 0.072" x 0.239"	31'-3" d 27'-4" d 24'-10" d 23'-0" d	2" x 9" x 0.072" x 0.239" 31'-3" d 27'-4" d 24'-10" d 23'-0" d	2" x 9" x 0.072" x 0.239" 31'-3" d 27'-4" d 24'-10" d 23'-0" d
2" x 9" x 0.082" x 0.321"	33'-6" d 29'-3" d 26'-7" d 24'-8" d	2" x 9" x 0.082" x 0.321" 33'-6" d 29'-3" d 26'-7" d 24'-8" d	2" x 9" x 0.082" x 0.321" 33'-6" d 29'-3" d 26'-7" d 24'-8" d
2" x 10" x 0.092" x 0.389"	36'-10" d 33'-11" d 30'-10" d 28'-8" d	2" x 10" x 0.092" x 0.389" 36'-10" d 33'-11" d 30'-10" d 28'-8" d	2" x 10" x 0.092" x 0.389" 36'-10" d 33'-11" d 30'-10" d 28'-8" d

Notes:
1. It is recommended that the engineer be consulted on any miscellaneous framing beam that spans more than 40'.
2. Spans are based on 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 distance from upright to center of brace to beam connection to the above spans for total beam spans.
5. Spans may be interpolated.

Wholesale Aluminum Distributors
INDUSTRIES, INC.
Town & Country

400 W. McNAB ROAD, FORT LAUDERDALE, FLORIDA 33309
PHONE: (954) 970-9999 FAX: (954) 972-1338

Table 3A.1.1-140
6005 TCI

For 3 second wind gust at 140-182 MPH velocity; using design load of 17.0 #/SF (65.7 #/SF for Max. Cantilever)	2" x 2" x 0.040" Hollow	2" x 3" x 0.045" Hollow
--	-------------------------	-------------------------

2" x 2" x 0.040" Hollow						2" x 3" x 0.045" Hollow					
Load	Max. Span 'L'/(bending 'b' or deflection 'd')		Max. Span 'L'/(bending 'b' or deflection 'd')		Max. Cantilever	Load	Max. Span 'L'/(bending 'b' or deflection 'd')		Max. Span 'L'/(bending 'b' or deflection 'd')		Max. Cantilever
	Width (ft.)	4 Span	3 Span	1&2 Span			Width (ft.)	4 Span	3 Span	1&2 Span	
4	5.0"	6.2"	6.4"	5.0"	d	4	5.0"	6.2"	6.4"	5.0"	d
5	4.8"	5.9"	5.9"	5.10"	d	5	4.8"	5.9"	5.9"	5.10"	d
6	4.5"	5.5"	5.5"	5.6"	d	6	4.5"	5.5"	5.6"	5.6"	d
7	4.2"	5.2"	5.3"	5.3"	d	7	4.2"	5.2"	5.3"	5.3"	d
8	3.11"	4.11"	5.0"	4.0"	d	8	3.11"	4.11"	5.0"	4.0"	d
9	3.10"	4.3"	4.10"	4.0"	d	9	3.10"	4.3"	4.10"	4.0"	d
10	3.8"	4.7"	4.7"	4.6"	d	10	3.8"	4.7"	4.7"	4.6"	d
11	3.7"	4.5"	4.4"	4.5"	d	11	3.7"	4.5"	4.4"	4.5"	d
12	3.6"	4.4"	4.2"	4.2"	b	12	3.6"	4.4"	4.2"	4.2"	b

8	6:2 ^a	d	7:7 ^a	d	7:9 ^a	d	8	7:3 ^a	d	8:8 ^a	b	8:5 ^a	b	1:4 ^a	d
9	5:11 ^a	d	7:4 ^a	d	7:5 ^a	d	9	6:11 ^a	d	8:2 ^a	b	7:1 ^a	b	1:4 ^a	d
	5:11 ^a	d	7:4 ^a	d	7:5 ^a	d		6:11 ^a	d	8:2 ^a	b	7:1 ^a	b	1:4 ^a	d

For 3 second wind gust at 140-1&2 MPH velocity; using design load of 17.0 #/SF

	2'-0"	3'-0"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"
Hollow Beams												
2" x 4" x 0.050"	11'-0"	d	10'-0"	d	8'-5"	7'-11"	7'-7"	6'-9"	6'-4"	5'-11"	d	5'-5"
Self-Mating Beams												
2" x 4" x 0.046" x 0.115"	12'-9"	d	11'-11"	d	9'-5"	8'-10"	8'-5"	8'-0"	7'-5"	7'-0"	d	6'-4"
2" x 6" x 0.050" x 0.135"	15'-9"	d	13'-9"	d	11'-7"	10'-11"	10'-4"	9'-11"	9'-2"	8'-8"	d	7'-7"
2" x 6" x 0.050" x 0.135"	18'-5"	d	16'-1"	d	14'-8"	13'-7"	12'-9"	12'-2"	11'-7"	10'-9"	d	9'-8"
2" x 8" x 0.057" x 0.135"	21'-1"	d	18'-5"	d	16'-6"	14'-7"	13'-11"	13'-3"	12'-4"	11'-7"	d	10'-2"
2" x 8" x 0.072" x 0.240"	25'-11"	d	22'-9"	d	19'-2"	18'-0"	17'-1"	16'-4"	15'-2"	14'-4"	d	12'-6"
2" x 9" x 0.072" x 0.239"	28'-7"	d	24'-11"	d	22'-8"	21'-1"	19'-10"	18'-10"	18'-0"	16'-9"	d	13'-9"
2" x 9" x 0.092" x 0.321"	30'-8"	d	26'-9"	d	24'-4"	22'-7"	21'-3"	20'-2"	19'-4"	17'-11"	d	14'-9"
2" x 10" x 0.092" x 0.389"	35'-6"	d	31'-0"	d	28'-2"	26'-2"	24'-8"	23'-5"	22'-5"	20'-9"	d	17'-9"
2" x 10" x 0.092" x 0.389"	38'-6"	d	34'-0"	d	30'-2"	28'-2"	26'-8"	25'-5"	24'-5"	22'-9"	d	19'-1"

Notes:

1. It is recommended that the engineer be consulted on any miscellaneous framing beam that spans more than 40'

1. Spans are based on wind load plus dead load for framing.
2. Spans are measured from center of connection to fascia or wall connection.
3. Spans are measured from center of connection to fascia or wall connection.
4. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
5. Spans may be interpolated.

Table 3A.1.4-140
6005 T-5

For 3 second wind gust at 140 MPH velocity; using design load of 17.0 #/SF

Self Mailing Sections	Tributary Load Width $W =$ Purlin Spacing									
	Allowable Span L^1 , bending b^1 or deflection d^1									
	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"		
2" x 4" x 0.045" x 0.115"	12'-7"	11'-7"	b 10'-9"	b 10'-1"	b 9'-5"	b 8'-11"	b 8'-7"	b 8'-2"	b	
2" x 5" x 0.050" x 0.135"	15'-6"	14'-7"	b 13'-0"	b 12'-11"	b 12'-2"	b 11'-7"	b 11'-0"	b 10'-7"	b	
2" x 6" x 0.050" x 0.1435"	18'-3"	b 17'-1"	b 15'-10"	b 14'-10"	b 13'-11"	b 13'-3"	b 12'-8"	b 12'-1"	b	
2" x 7" x 0.057" x 0.1435"	20'-10"	b 19'-7"	b 18'-4"	b 17'-2"	b 16'-2"	b 15'-4"	b 14'-8"	b 14'-0"	b	
2" x 8" x 0.072" x 0.240"	25'-9"	24'-2"	b 22'-11"	b 21'-11"	b 20'-9"	b 19'-6"	b 18'-9"	b 17'-11"	b	
2" x 9" x 0.072" x 0.239"	28'-3"	26'-7"	b 25'-3"	b 23'-11"	b 22'-7"	b 21'-5"	b 20'-5"	b 19'-6"	b	
2" x 10" x 0.082" x 0.321"	30'-3"	b 28'-6"	b 27'-1"	b 25'-10"	b 24'-10"	b 23'-9"	b 22'-8"	b 21'-8"	b	
2" x 10" x 0.092" x 0.339"	35'-1"	b 33'-0"	b 31'-4"	b 30'-0"	b 28'-10"	b 27'-10"	b 26'-5"	b 25'-8"	b	

Notes:

1. Tables assume extrusion oriented with longer extrusion dimension parallel to applied load.
2. Spans may be interpolated.

Table 3A.2 140
Town & Country Industries, Inc.
Allowable Upright Heights, Chair Rail Spans or Header Spans
6005 TCI

For 3 second wind gust at 140 MPH velocity; using design load of 21.0 #/SF

Sections	Tributary Load Width W_t = Member Spacing										6'-6"	7'-0"	7'-6"						
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"										
2" x 2" x 0.040"	Hollow	6'-9"	b	6'-3"	b	5'-6"	b	5'-3"	b	4'-11"	b	4'-9"	b	4'-7"	b	4'-5"	b	4'-3"	b
3" x 2" x 0.045"	Hollow	7'-4"	b	6'-9"	b	6'-11"	b	6'-5"	b	5'-5"	b	5'-2"	b	4'-11"	b	4'-0"	b	4'-6"	b
2" x 3" x 0.045"	Hollow	8'-4"	b	7'-9"	b	7'-3"	b	6'-10"	b	6'-5"	b	6'-2"	b	5'-11"	b	5'-3"	b	5'-3"	b
2" x 3" x 0.060"	Hollow	10'-6"	b	9'-9"	b	9'-1"	b	8'-7"	b	8'-2"	b	7'-9"	b	7'-5"	b	7'-2"	b	6'-11"	b
2" x 4" x 0.060"	Hollow	10'-1"	b	9'-4"	b	8'-9"	b	8'-3"	b	7'-10"	b	7'-5"	b	7'-1"	b	6'-10"	b	6'-7"	b
2" x 4" x 0.080"	Hollow	12'-8"	b	13'-7"	b	12'-9"	b	11'-11"	b	11'-4"	b	10'-10"	b	10'-3"	b	9'-11"	b	9'-7"	b
2" x 5" x 0.086"	S.M.B.	12'-4"	b	11'-5"	b	10'-3"	b	10'-1"	b	9'-7"	b	9'-2"	b	8'-3"	b	7'-9"	b	7'-3"	b
2" x 5" x 0.060" x 0.115"	S.M.B.	14'-0"	b	13'-9"	b	12'-10"	b	12'-2"	b	11'-4"	b	10'-9"	b	10'-1"	b	9'-7"	b	9'-3"	b
2" x 5" x 0.060" x 0.135"	S.M.B.	14'-0"	b	13'-9"	b	12'-10"	b	12'-2"	b	11'-4"	b	10'-9"	b	10'-1"	b	9'-7"	b	9'-3"	b
2" x 7" x 0.057" x 0.135"	S.M.B.	16'-0"	b	15'-11"	b	14'-10"	b	14'-1"	b	13'-4"	b	12'-9"	b	12'-1"	b	11'-3"	b	10'-1"	b
2" x 7" x 0.057" x 0.240"	S.M.B.	20'-8"	b	19'-1"	b	17'-0"	b	16'-10"	b	15'-11"	b	15'-3"	b	14'-7"	b	13'-3"	b	13'-1"	b
2" x 8" x 0.072" x 0.240"	S.M.B.	28'-3"	b	23'-5"	b	21'-11"	b	20'-8"	b	19'-8"	b	18'-8"	b	17'-2"	b	16'-7"	b	15'-11"	b
2" x 9" x 0.072" x 0.238"	S.M.B.	28'-3"	b	27'-1"	b	25'-4"	b	23'-11"	b	22'-8"	b	21'-8"	b	20'-11"	b	19'-7"	b	18'-6"	b
2" x 10" x 0.092" x 0.331"	S.M.B.	32'-8"	b	30'-3"	b	28'-4"	b	26'-8"	b	25'-4"	b	24'-2"	b	23'-1"	b	21'-5"	b	20'-8"	b
2" x 10" x 0.092" x 0.339"	S.M.B.	45'-0"	b	42'-5"	b	39'-8"	b	37'-5"	b	35'-6"	b	33'-10"	b	32'-5"	b	31'-1"	b	29'-11"	b

Notes:

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

Table 3A.2 140 HST Allowable Upright Heights, Chair Rail Spans or Header Spans for Select Acrylic or Vinyl Beams

For 3 second wind gust at 140-182 MPH velocity: using design load of 21.0 #/SF

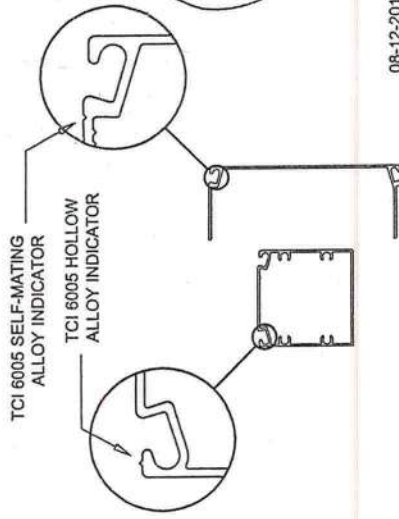
Sections	Tributary Load Width "W" = Purlin Spacing									
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"
3" x 3" x 0.045" Fluted	7'-2"	6'-7"	6'-2"	5'-10"	5'-6"	5'-3"	5'-1"	4'-10"	4'-8"	4'-6"
3" x 3" x 0.060" Square	8'-2"	8'-1"	7'-7"	7'-2"	6'-10"	6'-5"	6'-2"	5'-11"	5'-9"	5'-7"
3" x 3" x 0.083" Square	12'-7"	11'-8"	10'-11"	10'-4"	9'-9"	9'-4"	8'-11"	8'-7"	8'-3"	7'-11"
3" x 3" x 0.125" Square	15'-0"	13'-11"	13'-0"	12'-3"	11'-8"	11'-3"	10'-6"	10'-3"	9'-10"	9'-5"
4" x 4" x 0.125" Square	19'-5"	17'-11"	16'-10"	15'-10"	15'-1"	14'-4"	13'-9"	13'-2"	12'-9"	12'-4"

Notes:

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

These alloy identification marks have been provided to contractors and yourself for permitting purposes. The details below illustrate the alloy identification marks and the location of such marks.

A separate signed and sealed document from Town & Country will be provided to our pre-approved contractors once the materials are purchased.



08-12-2010

Table 2.1.1 A-110 Town & Country Industries, Inc. Allowable Roof Beam Spans for Freestanding Carports or Patio Covers with Mono-Sloped* Roofs 6005 TCI

For 3 sec. wind gust for 110 MPH velocity; using design load of 15.6 #/SF (47.1 #/SF for Max. Cantilever)

2" x 2" x 0.040" Hollow					2" x 3" x 0.045" Hollow					2" x 4" x 0.050" Hollow					
Load	Max. Span L/(bending 'b' or deflection 'd')	182 Span	3 Span	4 Span	Max. Cantilever	Width (ft.)	182 Span	3 Span	4 Span	Max. Cantilever	Width (ft.)	182 Span	3 Span	4 Span	Max. Cantilever
4	5'-2"	6'-4"	6'-6"	6'-6"	1'-1"	4	7'-2"	8'-10"	9'-1"	1'-5"	4	9'-4"	11'-7"	11'-10"	1'-11"
5	4'-9"	5'-11"	6'-0"	6'-0"	0'-11"	5	6'-3"	7'-9"	8'-5"	1'-4"	5	8'-5"	10'-11"	10'-11"	1'-9"
6	4'-6"	5'-7"	5'-8"	5'-8"	0'-11"	6	6'-0"	7'-9"	7'-11"	1'-3"	6	8'-2"	10'-1"	10'-1"	1'-8"
7	4'-3"	5'-3"	5'-5"	5'-5"	0'-10"	7	5'-11"	7'-4"	7'-6"	1'-3"	7	7'-9"	9'-7"	9'-4"	1'-7"
8	4'-1"	5'-1"	5'-2"	5'-2"	0'-10"	8	5'-8"	7'-0"	7'-1"	1'-2"	8	7'-5"	9'-1"	8'-9"	1'-6"
9	3'-11"	4'-10"	4'-11"	4'-11"	0'-10"	9	5'-6"	6'-9"	6'-9"	1'-1"	9	7'-2"	8'-6"	8'-3"	1'-5"
10	3'-10"	4'-8"	4'-9"	4'-9"	0'-9"	10	5'-3"	6'-5"	6'-4"	1'-1"	10	6'-11"	8'-1"	7'-10"	1'-5"
11	3'-8"	4'-7"	4'-7"	4'-7"	0'-9"	11	5'-1"	6'-3"	6'-1"	1'-1"	11	6'-8"	7'-9"	7'-6"	1'-4"
12	3'-7"	4'-5"	4'-4"	4'-4"	0'-9"	12	4'-11"	6'-0"	5'-10"	1'-0"	12	6'-6"	7'-5"	7'-2"	1'-4"

2" x 3" x 0.060" Hollow					2" x 3" x 0.050" Hollow					2" x 3" x 0.045" Hollow					
Load	Max. Span L/(bending 'b' or deflection 'd')	182 Span	3 Span	4 Span	Max. Cantilever	Width (ft.)	182 Span	3 Span	4 Span	Max. Cantilever	Width (ft.)	182 Span	3 Span	4 Span	Max. Cantilever
4	7'-11"	9'-10"	10'-0"	10'-0"	1'-8"	4	9'-4"	11'-7"	11'-10"	1'-11"	4	9'-4"	11'-7"	11'-10"	1'-11"
5	7'-5"	8'-2"	9'-4"	9'-4"	1'-6"	5	8'-5"	10'-9"	10'-11"	1'-9"	5	8'-5"	10'-9"	10'-11"	1'-9"
6	6'-11"	8'-7"	8'-9"	8'-9"	1'-5"	6	8'-2"	10'-1"	10'-1"	1'-8"	6	8'-2"	10'-1"	10'-1"	1'-8"
7	6'-7"	8'-2"	8'-4"	8'-4"	1'-4"	7	7'-9"	9'-7"	9'-4"	1'-7"	7	7'-9"	9'-7"	9'-4"	1'-7"
8	6'-4"	7'-10"	7'-11"	7'-11"	1'-4"	8	7'-5"	9'-1"	8'-9"	1'-6"	8	7'-5"	9'-1"	8'-9"	1'-6"
9	6'-1"	7'-6"	7'-8"	7'-8"	1'-3"	9	7'-2"	8'-6"	8'-3"	1'-5"	9	7'-2"	8'-6"	8'-3"	1'-5"
10	5'-10"	7'-3"	7'-5"	7'-5"	1'-2"	10	6'-11"	8'-1"	7'-10"	1'-5"	10	6'-11"	8'-1"	7'-10"	1'-5"
11	5'-8"	7'-0"	7'-1"	7'-1"	1'-2"	11	6'-8"	7'-9"	7'-6"	1'-4"	11	6'-8"	7'-9"	7'-6"	1'-4"
12	5'-6"	6'-10"	6'-10"	6'-10"	1'-2"	12	6'-6"	7'-5"	7'-2"	1'-4"	12	6'-6"	7'-5"	7'-2"	1'-4"

3" x 2" x 0.045" Hollow						
Load	Width (ft.)	Max. Span L/(bending 'b' or deflection 'd')				
		1&2 Span	3 Span	4 Span	Max Cantilever	
4	5'-10" d	7'-2" d	7'-4" d	1'-2" d		
5	5'-5" d	6'-6" d	6'-10" d	1'-1" d		
6	5'-1" d	5'-3" d	6'-5" d	1'-1" d		
7	4'-10" d	5'-11" d	6'-1" d	0'-11" d		
8	4'-7" d	5'-8" d	5'-10" d	0'-11" d		
9	4'-5" d	5'-6" d	5'-7" d	0'-11" d		
10	4'-3" d	5'-4" d	5'-5" d	0'-11" d		
11	4'-2" d	5'-2" d	5'-3" d	0'-10" d		
12	4'-0" d	4'-11" d	5'-1" d	0'-10" d		

* Mono-sloped roofs include gables where the slope of the roof is less than 1" in 12".
Notes: 1. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.

Table 2.1.1B-110 Town & Country Industries, Inc. Allowable Roof Beam Spans for Freestanding Carports or Patio Covers with Mono-Sloped* Roofs 6005 TCI

For 3 sec. wind gust for 110 MPH velocity; using design load of 15.6 #/SF (47.1 #/SF for Max. Cantilever)

2" x 4" x 0.046" x 0.115" SMB				2" x 5" x 0.050" x 0.135" SMB				2" x 6" x 0.072" x 0.240" SMB			
Load	Max. Span L/(bending 'b' or deflection 'd')	Max. Span L/(bending 'b' or deflection 'd')	Max. Cantilever	Load	Max. Span L/(bending 'b' or deflection 'd')	Max. Span L/(bending 'b' or deflection 'd')	Max. Cantilever	Load	Max. Span L/(bending 'b' or deflection 'd')	Max. Span L/(bending 'b' or deflection 'd')	Max. Cantilever
Width (ft.)	182 Span	3 Span	4 Span	Width (ft.)	182 Span	3 Span	4 Span	Width (ft.)	182 Span	3 Span	4 Span
4	10'-5"	12'-10"	13'-1"	4	12'-10"	15'-11"	16'-2"	4	12'-10"	15'-11"	16'-2"
5	9'-8"	11'-11"	12'-2"	5	11'-11"	14'-9"	15'-0"	5	11'-11"	14'-9"	15'-0"
6	9'-1"	11'-3"	11'-5"	6	11'-3"	13'-10"	14'-2"	6	11'-3"	13'-10"	14'-2"
7	8'-8"	10'-8"	10'-10"	7	10'-8"	13'-2"	13'-5"	7	10'-8"	13'-2"	13'-5"
8	8'-3"	10'-2"	10'-2"	8	10'-2"	12'-7"	12'-10"	8	10'-2"	12'-7"	12'-10"
9	7'-11"	9'-10"	9'-7"	9	9'-10"	12'-1"	12'-4"	9	9'-10"	12'-1"	12'-4"
10	7'-8"	9'-5"	9'-1"	10	9'-6"	11'-8"	11'-10"	10	9'-6"	11'-8"	11'-10"
11	7'-5"	8'-11"	8'-8"	11	9'-2"	11'-4"	11'-3"	11	9'-2"	11'-4"	11'-3"
12	7'-3"	8'-7"	8'-3"	12	8'-11"	11'-0"	10'-10"	12	8'-11"	11'-0"	10'-10"

2" x 4" x 0.050" x 0.135" SMB				2" x 5" x 0.057" x 0.135" SMB				2" x 6" x 0.073" x 0.239" SMB			
Load	Max. Span L/(bending 'b' or deflection 'd')	Max. Span L/(bending 'b' or deflection 'd')	Max. Cantilever	Load	Max. Span L/(bending 'b' or deflection 'd')	Max. Span L/(bending 'b' or deflection 'd')	Max. Cantilever	Load	Max. Span L/(bending 'b' or deflection 'd')	Max. Span L/(bending 'b' or deflection 'd')	Max. Cantilever
Width (ft.)	182 Span	3 Span	4 Span	Width (ft.)	182 Span	3 Span	4 Span	Width (ft.)	182 Span	3 Span	4 Span
4	15'-1"	18'-7"	18'-11"	4	17'-3"	21'-3"	21'-8"	4	23'-4"	28'-10"	29'-5"
5	13'-11"	17'-8"	17'-8"	5	15'-11"	19'-9"	20'-2"	5	21'-5"	26'-9"	27'-4"
6	13'-2"	16'-3"	16'-7"	6	15'-1"	18'-7"	18'-11"	6	20'-5"	26'-2"	26'-9"
7	12'-6"	15'-5"	15'-9"	7	14'-4"	17'-8"	18'-0"	7	19'-5"	23'-11"	24'-5"
8	11'-11"	14'-9"	14'-11"	8	13'-8"	16'-11"	17'-3"	8	18'-5"	22'-11"	23'-4"
9	11'-6"	14'-2"	14'-1"	9	13'-2"	16'-3"	16'-4"	9	17'-10"	22'-0"	22'-6"
10	10'-11"	13'-6"	13'-4"	10	12'-8"	15'-8"	16'-6"	10	17'-3"	21'-3"	21'-7"
11	10'-5"	13'-0"	12'-9"	11	12'-4"	15'-2"	14'-9"	11	16'-8"	20'-7"	20'-7"
12	10'-5"	12'-8"	12'-2"	12	11'-14"	14'-8"	14'-2"	12	16'-2"	20'-0"	19'-8"
2" x 4" x 0.072" x 0.240" SMB				2" x 5" x 0.092" x 0.339" SMB				2" x 6" x 0.102" x 0.389" SMB			
Load	Max. Span L/(bending 'b' or deflection 'd')	Max. Span L/(bending 'b' or deflection 'd')	Max. Cantilever	Load	Max. Span L/(bending 'b' or deflection 'd')	Max. Span L/(bending 'b' or deflection 'd')	Max. Cantilever	Load	Max. Span L/(bending 'b' or deflection 'd')	Max. Span L/(bending 'b' or deflection 'd')	Max. Cantilever
Width (ft.)	182 Span	3 Span	4 Span	Width (ft.)	182 Span	3 Span	4 Span	Width (ft.)	182 Span	3 Span	4 Span
4	25'-0"	30'-11"	31'-7"	4	29'-0"	35'-10"	36'-7"	4	29'-0"	35'-10"	36'-7"
5	23'-3"	28'-8"	29'-3"	5	26'-11"	33'-3"	33'-11"	5	26'-11"	33'-3"	33'-11"
6	21'-10"	27'-0"	27'-7"	6	24'-4"	31'-4"	31'-11"	6	24'-4"	31'-4"	31'-11"
7	20'-8"	25'-8"	26'-2"	7	23'-1"	29'-9"	30'-4"	7	23'-1"	29'-9"	30'-4"
8	19'-10"	24'-7"	25'-0"	8	23'-1"	28'-6"	29'-0"	8	23'-1"	28'-6"	29'-0"
9	19'-1"	23'-7"	24'-1"	9	22'-2"	27'-4"	27'-11"	9	22'-2"	27'-4"	27'-11"
10	18'-5"	22'-9"	23'-3"	10	21'-5"	26'-5"	26'-11"	10	21'-5"	26'-5"	26'-11"
11	17'-10"	22'-1"	22'-6"	11	20'-9"	25'-7"	26'-1"	11	20'-9"	25'-7"	26'-1"
12	17'-4"	21'-5"	21'-10"	12	20'-2"	24'-10"	25'-4"	12	20'-2"	24'-10"	25'-4"

* Mono-sloped roofs include gables where the slope of the roof is less than 1" in 12".
Notes: 1. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.

Table 2.1.2 A-110 Town & Country Industries, Inc. Allowable Roof Beam Spans for Freestanding Gabled Carports 6005 TCI

For 3 sec. wind gust at 110 MPH; using design load of 17.7 #/SF (47.1 #/SF for Max. Cantilever)

2" x 2" x 0.040" Hollow					2" x 3" x 0.045" Hollow					2" x 4" x 0.050" Hollow										
Load	Max. Span L/(bending 'b' or deflection 'd')	1&2 Span	3 Span	4 Span	Max. Cantilever	Width (ft.)	Load	Max. Span L/(bending 'b' or deflection 'd')	1&2 Span	3 Span	4 Span	Max. Cantilever	Width (ft.)	Load	Max. Span L/(bending 'b' or deflection 'd')	1&2 Span	3 Span	4 Span	Max. Cantilever	Width (ft.)
4	4'-11"	6'-1"	6'-3"	6'-3"	1'-1"	4	4'-11"	6'-1"	6'-3"	6'-3"	6'-3"	1'-1"	4	4'-11"	6'-1"	6'-3"	6'-3"	6'-3"	1'-1"	4
5	4'-7"	5'-8"	5'-9"	5'-9"	0'-11"	5	4'-7"	5'-8"	5'-9"	5'-9"	5'-9"	0'-11"	5	4'-7"	5'-8"	5'-9"	5'-9"	5'-9"	0'-11"	5
6	4'-4"	5'-4"	5'-5"	5'-5"	0'-11"	6	4'-4"	5'-4"	5'-5"	5'-5"	5'-5"	0'-11"	6	4'-4"	5'-4"	5'-5"	5'-5"	5'-5"	0'-11"	6
7	4'-1"	5'-1"	5'-2"	5'-2"	0'-11"	7	4'-1"	5'-1"	5'-2"	5'-2"	5'-2"	0'-11"	7	4'-1"	5'-1"	5'-2"	5'-2"	5'-2"	0'-11"	7
8	3'-11"	4'-10"	4'-11"	4'-11"	0'-10"	8	3'-11"	4'-10"	4'-11"	4'-11"	4'-11"	0'-10"	8	3'-11"	4'-10"	4'-11"	4'-11"	4'-11"	0'-10"	8
9	3'-9"	4'-8"	4'-9"	4'-9"	0'-10"	9	3'-9"	4'-8"	4'-9"	4'-9"	4'-9"	0'-10"	9	3'-9"	4'-8"	4'-9"	4'-9"	4'-9"	0'-10"	9
10	3'-8"	4'-6"	4'-6"	4'-6"	0'-9"	10	3'-8"	4'-6"	4'-6"	4'-6"	4'-6"	0'-9"	10	3'-8"	4'-6"	4'-6"	4'-6"	4'-6"	0'-9"	10
11	3'-6"	4'-4"	4'-4"	4'-4"	0'-9"	11	3'-6"	4'-4"	4'-4"	4'-4"	4'-4"	0'-9"	11	3'-6"	4'-4"	4'-4"	4'-4"	4'-4"	0'-9"	11
12	3'-5"	4'-3"	4'-3"	4'-3"	0'-9"	12	3'-5"	4'-3"	4'-3"	4'-3"	4'-3"	0'-9"	12	3'-5"	4'-3"	4'-3"	4'-3"	4'-3"	0'-9"	12

2" x 3" x 0.060" Hollow					2" x 4" x 0.050" Hollow					2" x 4" x 0.050" Hollow										
Load	Max. Span L/(bending 'b' or deflection 'd')	1&2 Span	3 Span	4 Span	Max. Cantilever	Width (ft.)	Load	Max. Span L/(bending 'b' or deflection 'd')	1&2 Span	3 Span	4 Span	Max. Cantilever	Width (ft.)	Load	Max. Span L/(bending 'b' or deflection 'd')	1&2 Span	3 Span	4 Span	Max. Cantilever	Width (ft.)
4	7'-9"	9'-5"	9'-7"	9'-7"	1'-9"	4	7'-9"	9'-5"	9'-7"	9'-7"	9'-7"	1'-9"	4	8'-11"	10'-1"	10'-1"	10'-1"	10'-1"	1'-11"	4
5	7'-1"	8'-9"	8'-9"	8'-11"	1'-6"	5	7'-1"	8'-9"	8'-9"	8'-11"	8'-11"	1'-6"	5	8'-4"	10'-4"	10'-4"	10'-5"	10'-5"	1'-9"	5
6	6'-8"	8'-3"	8'-3"	8'-5"	1'-5"	6	6'-8"	8'-3"	8'-3"	8'-5"	8'-5"	1'-5"	6	7'-10"	9'-8"	9'-8"	9'-8"	9'-8"	1'-7"	6
7	6'-4"	7'-10"	7'-10"	7'-11"	1'-4"	7	6'-4"	7'-10"	7'-10"	7'-11"	7'-11"	1'-4"	7	7'-5"	9'-1"	9'-1"	9'-3"	9'-3"	1'-7"	7
8	6'-1"	7'-6"	7'-6"	7'-8"	1'-4"	8	6'-1"	7'-6"	7'-6"	7'-8"	7'-8"	1'-4"	8	7'-2"	8'-6"	8'-6"	8'-7"	8'-7"	1'-6"	8
9	5'-10"	7'-2"	7'-2"	7'-4"	1'-3"	9	5'-10"	7'-2"	7'-2"	7'-4"	7'-4"	1'-3"	9	6'-10"	8'-0"	8'-0"	8'-0"	8'-0"	1'-5"	9
10	5'-8"	6'-11"	6'-11"	6'-11"	1'-2"	10	5'-8"	6'-11"	6'-11"	6'-11"	6'-11"	1'-2"	10	6'-7"	7'-7"	7'-7"	7'-7"	7'-7"	1'-5"	10
11	5'-5"	6'-9"	6'-9"	6'-8"	1'-2"	11	5'-5"	6'-9"	6'-9"	6'-8"	6'-8"	1'-2"	11	6'-5"	7'-3"	7'-3"	7'-0"	7'-0"	1'-4"	11
12	5'-4"	6'-6"	6'-6"	6'-5"	1'-2"	12	5'-4"	6'-6"	6'-6"	6'-5"	6'-5"	1'-2"	12	6'-3"	6'-11"	6'-11"	6'-1"	6'-1"	1'-4"	12

3" x 2" x 0.045" Hollow						
Load	Max. Span "L"/(bending 'b' or deflection 'd')	1&2 Span	3 Span	4 Span	Max Cantilever	
Width (ft.)						
4	5'-7" d	6'-11" d	7'-0" d	1'-2" d		
5	5'-2" d	6'-5" d	6'-5" d	1'-1" d		
6	4'-10" d	6'-0" d	6'-2" d	1'-1" d		
7	4'-8" d	5'-9" d	5'-10" d	0'-11" d		
8	4'-5" d	5'-6" d	5'-7" d	0'-11" d		
9	4'-3" d	5'-3" d	5'-4" d	0'-11" d		
10	4'-1" d	5'-1" d	5'-2" d	0'-11" d		
11	3'-11" d	4'-11" d	5'-0" d	0'-10" d		
12	3'-10" d	4'-9" d	4'-10" d	0'-10" d		

* Mono-sloped roofs include gables where the slope of the roof is less than 1" in 12".
Notes: 1. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.

Table 2.1.2B-110 Town & Country Industries, Inc. Allowable Roof Beam Spans for Freestanding Gabled Carports 6005 TCI

For 3 sec. wind gust for 110 MPH velocity; using design load of 17.7 #/SF (47.1 #/SF for Max. Cantilever)

2" x 4" x 0.046" x 0.115" SMB							2" x 5" x 0.050" x 0.135" SMB									
Load	Max. Span 'L'/(bending 'b' or deflection 'd')	182 Span	3 Span	4 Span	Max. Cantilever	Width (ft.)	Load	Max. Span 'L'/(bending 'b' or deflection 'd')	182 Span	3 Span	4 Span	Max. Cantilever	Width (ft.)			
4	9'-11"	12'-4"	12'-7"	12'-7"	2'-2"	4	12'-4"	15'-3"	15'-3"	15'-6"	2'-8"	4	12'-4"	15'-3"	15'-6"	2'-8"
5	9'-3"	11'-5"	11'-8"	11'-8"	1'-11"	5	11'-5"	14'-2"	14'-2"	14'-5"	2'-5"	5	11'-5"	14'-2"	14'-5"	2'-5"
6	8'-9"	10'-9"	10'-11"	10'-11"	1'-10"	6	10'-9"	13'-4"	13'-4"	13'-7"	2'-4"	6	10'-9"	13'-4"	13'-7"	2'-4"
7	8'-3"	10'-3"	10'-2"	10'-2"	1'-9"	7	10'-3"	12'-8"	12'-8"	12'-11"	2'-2"	7	10'-3"	12'-8"	12'-11"	2'-2"
8	7'-11"	9'-9"	9'-6"	9'-6"	1'-8"	8	9'-9"	12'-7"	12'-7"	12'-9"	2'-1"	8	9'-9"	12'-7"	12'-9"	2'-1"
9	7'-7"	9'-5"	9'-1"	9'-1"	1'-8"	9	9'-5"	11'-7"	11'-7"	11'-8"	2'-0"	9	9'-5"	11'-7"	11'-8"	2'-0"
10	7'-4"	8'-10"	8'-6"	8'-6"	1'-7"	10	8'-10"	10'-10"	10'-10"	10'-11"	1'-11"	10	8'-10"	10'-10"	10'-11"	1'-11"
11	7'-1"	8'-5"	8'-1"	8'-1"	1'-6"	11	8'-5"	10'-3"	10'-3"	10'-7"	1'-10"	11	8'-5"	10'-3"	10'-7"	1'-10"
12	6'-11"	8'-0"	7'-9"	7'-9"	1'-5"	12	8'-0"	10'-6"	10'-6"	10'-10"	1'-10"	12	8'-7"	10'-6"	10'-10"	1'-10"
2" x 6" x 0.050" x 0.135" SMB							2" x 7" x 0.057" x 0.135" SMB									
4	14'-5"	17'-10"	18'-2"	18'-2"	3'-1"	4	16'-5"	20'-5"	20'-10"	20'-10"	3'-6"	4	16'-5"	20'-5"	20'-10"	3'-6"
5	13'-5"	16'-7"	16'-11"	16'-11"	2'-10"	5	15'-4"	18'-11"	18'-11"	19'-4"	3'-3"	5	15'-4"	18'-11"	19'-4"	3'-3"
6	12'-7"	15'-7"	15'-11"	15'-11"	2'-8"	6	14'-5"	17'-10"	17'-10"	18'-2"	3'-1"	6	14'-5"	17'-10"	18'-2"	3'-1"
7	11'-11"	14'-10"	14'-11"	14'-11"	2'-7"	7	13'-8"	16'-11"	16'-11"	17'-3"	2'-11"	7	13'-8"	16'-11"	17'-3"	2'-11"
8	11'-6"	14'-2"	14'-0"	14'-0"	2'-5"	8	13'-1"	16'-2"	16'-2"	16'-3"	2'-8"	8	13'-1"	16'-2"	16'-3"	2'-8"
9	11'-0"	13'-7"	13'-7"	13'-7"	2'-4"	9	12'-7"	15'-7"	15'-7"	15'-4"	2'-5"	9	12'-7"	15'-7"	15'-4"	2'-5"
10	10'-8"	12'-11"	12'-6"	12'-6"	2'-3"	10	12'-2"	15'-0"	15'-0"	14'-7"	2'-7"	10	12'-2"	15'-0"	14'-7"	2'-7"
11	10'-4"	12'-5"	11'-11"	11'-11"	2'-2"	11	11'-9"	14'-4"	14'-4"	13'-10"	2'-6"	11	11'-9"	14'-4"	13'-10"	2'-6"
12	10'-0"	11'-10"	11'-5"	11'-5"	2'-2"	12	11'-5"	13'-9"	13'-9"	13'-3"	2'-5"	12	11'-5"	13'-9"	13'-3"	2'-5"
2" x 8" x 0.072" x 0.240" SMB							2" x 9" x 0.072" x 0.239" SMB									
4	20'-4"	25'-2"	25'-8"	25'-8"	4'-0"	4	22'-5"	27'-8"	27'-8"	28'-3"	4'-0"	4	22'-5"	27'-8"	28'-3"	4'-0"
5	18'-11"	23'-4"	23'-10"	23'-10"	4'-0"	5	20'-10"	25'-8"	25'-8"	26'-2"	4'-0"	5	20'-10"	25'-8"	26'-2"	4'-0"
6	17'-9"	21'-11"	22'-5"	22'-5"	3'-10"	6	19'-7"	24'-2"	24'-2"	24'-8"	4'-0"	6	19'-7"	24'-2"	24'-8"	4'-0"
7	16'-11"	20'-10"	21'-3"	21'-3"	3'-7"	7	18'-7"	22'-11"	22'-11"	23'-5"	3'-11"	7	18'-7"	22'-11"	23'-5"	3'-11"
8	15'-6"	19'-11"	20'-4"	20'-4"	3'-5"	8	17'-9"	21'-11"	21'-11"	22'-5"	3'-8"	8	17'-9"	21'-11"	22'-5"	3'-8"
9	15'-6"	19'-2"	19'-7"	19'-7"	3'-4"	9	17'-1"	21'-1"	21'-1"	21'-4"	3'-8"	9	17'-1"	21'-1"	21'-4"	3'-8"
10	15'-0"	18'-6"	18'-8"	18'-8"	3'-2"	10	16'-6"	20'-5"	20'-5"	20'-3"	3'-5"	10	16'-6"	20'-5"	20'-3"	3'-5"
11	14'-5"	17'-11"	17'-9"	17'-9"	3'-1"	11	15'-11"	19'-9"	19'-9"	19'-4"	3'-5"	11	15'-11"	19'-9"	19'-4"	3'-5"
12	14'-1"	17'-5"	17'-0"	17'-0"	3'-0"	12	15'-6"	19'-2"	19'-2"	18'-6"	3'-4"	12	15'-6"	19'-2"	18'-6"	3'-4"
2" x 9" x 0.082" x 0.321" SMB							2" x 10" x 0.092" x 0.389" SMB									
4	24'-0"	29'-8"	30'-3"	30'-3"	4'-0"	4	27'-10"	34'-5"	34'-5"	35'-1"	4'-0"	4	27'-10"	34'-5"	35'-1"	4'-0"
5	22'-3"	27'-6"	28'-1"	28'-1"	4'-0"	5	25'-0"	31'-10"	31'-10"	32'-7"	4'-0"	5	25'-0"	31'-10"	32'-7"	4'-0"
6	20'-11"	25'-11"	26'-5"	26'-5"	4'-0"	6	24'-4"	30'-4"	30'-4"	30'-8"	4'-0"	6	24'-4"	30'-4"	30'-8"	4'-0"
7	19'-11"	23'-5"	24'-0"	24'-0"	4'-0"	7	23'-1"	28'-6"	28'-6"	29'-1"	4'-0"	7	23'-1"	28'-6"	29'-1"	4'-0"
8	19'-1"	23'-5"	24'-0"	24'-0"	4'-0"	8	22'-1"	27'-3"	27'-3"	27'-10"	4'-0"	8	22'-1"	27'-3"	27'-10"	4'-0"
9	18'-4"	22'-7"	23'-1"	23'-1"	3'-11"	9	21'-3"	26'-3"	26'-3"	26'-9"	4'-0"	9	21'-3"	26'-3"	26'-9"	4'-0"
10	17'-8"	21'-10"	22'-3"	22'-3"	3'-9"	10	20'-6"	25'-4"	25'-4"	25'-10"	4'-0"	10	20'-6"	25'-4"	25'-10"	4'-0"
11	17'-2"	21'-2"	21'-5"	21'-5"	3'-8"	11	19'-10"	24'-6"	24'-6"	25'-0"	4'-0"	11	19'-10"	24'-6"	25'-0"	4'-0"
12	16'-8"	20'-7"	20'-9"	20'-9"	3'-7"	12	19'-4"	23'-0"	23'-0"	24'-4"	4'-0"	12	19'-4"	23'-0"	24'-4"	4'-0"

* Mono-sloped roofs include gables where the slope of the roof is less than 1" in 12".
Notes: 1. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.

Table 2.1.1 C-110 Town & Country Industries, Inc. Allowable Spans for Miscellaneous Beams Used for Freestanding Carports with Mono-Sloped Roofs* 6005 T-6

For 3 sec. wind gust for 100 & 110 MPH velocity; using design load of 15.6 #/SF

Beams		Double Self-Mating Beams	
2" x 4" x 0.045" x 0.115"	(2) 2" x 4" x 0.045" x 0.115"	2" x 8" x 0.072" x 0.240"	(2) 2" x 8" x 0.072" x 0.240"
2" x 5" x 0.050" x 0.135"	(2) 2" x 5" x 0.050" x 0.135"	2" x 9" x 0.072" x 0.240"	(2) 2" x 9" x 0.072" x 0.240"
2" x 6" x 0.050" x 0.155"	(2) 2" x 6" x 0.050" x 0.155"	2" x 9" x 0.082" x 0.321"	(2) 2" x 9" x 0.082" x 0.321"
2" x 8" x 0.057" x 0.240"	(2) 2" x 8" x 0.057" x 0.240"	2" x 10" x 0.092" x 0.321"	(2) 2" x 10" x 0.092" x 0.321"

* Mono-sloped roofs include gables where the slope of the roof is less than 1" in 12".
Notes: 1. It is recommended that the engineer be consulted on any carrier beam that spans more than 35'.
2. Spans are based on 110 M.P.H. wind load plus dead load for framing.
3. Spans are measured from center of connection to fascia or wall connection.
4. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
5. Spans may be interpolated.

Table 2.1.2 C-110 Town & Country Industries, Inc. Allowable Spans for Miscellaneous Framing Beams Used in Attached Covers, Fourth Wall Structures, or Freestanding Gabled Carports 6005 TCI

For 3 sec. wind gust for 100 & 110 MPH velocity; using design load of 17.7 #/SF

Beams	Double Self-Mating Beams
2" x 4" x 0.046" x 0.0	(2) 2" x 8" x 0.072" x
2" x 5" x 0.050" x 0.	(2) 2" x 9" x 0.072" x
2" x 6" x 0.050" x 0.	(2) 2" x 9" x 0.082" x
2" x 7" x 0.060" x 0.	(2) 2" x 10" x 0.092"
2" x 8" x 0.072" x 0.	
2" x 9" x 0.072" x 0.	
2" x 9" x 0.082" x 0.	
2" x 10" x 0.092" x 0	

* Mono-sloped roofs include gables where the slope of the roof is less than 1" in 12".
Notes: 1. It is recommended that the engineer be consulted on any carrier beam that spans more than 35'.
2. Spans are based on 110 M.P.H. wind load plus dead load for framing.
3. Spans are measured from center of connection to fascia or wall connection.
4. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
5. Spans may be interpolated.

Table 2.1.2 C-110 Town & Country Industries, Inc. Allowable Spans for Miscellaneous Framing Beams Used in Attached Covers, Fourth Wall Structures, or Freestanding Gabled Carports 6005 TCI

For 3 sec. wind gust for 100 & 110 MPH velocity; using design load of 17.7 #/SF

Double Self-Mating Beams		Tributary Load Width				
Load	Max. Span L/(bending 'b' or deflection 'd')	Load	Max. Span L/(bending 'b' or deflection 'd')			
Width (ft.)	182 Span	3 Span	4 Span	182 Span	3 Span	4 Span
2" x 8" x 0.072" x 0.240"	22-5"	23-5"	24-5"	2" x 8" x 0.072" x 0.240"	22-5"	23-5"
2" x 9" x 0.072" x 0.239"	24-8"	25-8"	26-8"	2" x 9" x 0.072" x 0.239"	24-8"	25-8"
2" x 10" x 0.092" x 0.321"	26-5"	27-5"	28-5"	2" x 10" x 0.092" x 0.321"	26-5"	27-5"
2" x 12" x 0.112" x 0.389"	30-7"	31-7"	32-7"	2" x 12" x 0.112" x 0.389"	30-7"	31-7"

* Mono-sloped roofs include gables where the slope of the roof is less than 1" in 12".
Notes: 1. It is recommended that the engineer be consulted on any carrier beam that spans more than 35'.
2. Spans are based on 110 M.P.H. wind load plus dead load for framing.
3. Spans are measured from center of connection to fascia or wall connection.
4. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
5. Spans may be interpolated.

Table 2.1.2 C-110 Town & Country Industries, Inc. Allowable Spans for Miscellaneous Framing Beams Used in Attached Covers, Fourth Wall Structures, or Freestanding Gabled Carports 6005 TCI

For 3 sec. wind gust for 100 & 110 MPH velocity; using design load of 17.7 #/SF

Double Self-Mating Beams		Tributary Load Width				
Load	Max. Span L/(bending 'b' or deflection 'd')	Load	Max. Span L/(bending 'b' or deflection 'd')			
Width (ft.)	182 Span	3 Span	4 Span	182 Span	3 Span	4 Span
2" x 8" x 0.072" x 0.240"	22-5"	23-5"	24-5"	2" x 8" x 0.072" x 0.240"	22-5"	23-5"
2" x 9" x 0.072" x 0.239"	24-8"	25-8"	26-8"	2" x 9" x 0.072" x 0.239"	24-8"	25-8"
2" x 10" x 0.092" x 0.321"	26-5"	27-5"	28-5"	2" x 10" x 0.092" x 0.321"	26-5"	27-5"
2" x 12" x 0.112" x 0.389"	30-7"	31-7"	32-7"	2" x 12" x 0.112" x 0.389"	30-7"	31-7"

* Mono-sloped roofs include gables where the slope of the roof is less than 1" in 12".
Notes: 1. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.

Table 2.2.1
Allowable Attributable Roof Area per Post
Attached Carports or Freestanding Carports with Gabled Roofs

[illegible]

1. Design must satisfy both height and area requirements.
2. Areas may be interpolated.

Table 2.2.2
Allowable Attributable Roof Area per Post
Attached Carports or Freestanding Carports with Gabled Roofs

Applied Zone = Wind Zone 1		100 MPH	110 MPH	120 MPH	123 MPH	130 MPH	140-MPH	140-2 MPH	150 MPH
Max. Height		16.5 #/ft ²	17.7 #/ft ²	21.1 #/ft ²	22.2 #/ft ²	24.8 #/ft ²	27.1 #/ft ²	28.7 #/ft ²	33.9 #/ft ²
Allowable Roof Area in Square Feet for Various Loads on Post									
3" x 3" x 0.090" Hollow Extrusion - Aluminum Alloy 6063 T-6		Max. Load (#)	603	506	481	431	372	348	324
7'-0"	8'-6"	1016	1243	1468	1402	1252	1082	1000	928
10'-0"	8'-6"	5233	6315	7588	7248	6492	5624	5224	4720
11'-6"	8'-6"	5957	7238	8748	8368	7416	6416	5968	5424
13'-0"	8'-6"	6397	7817	9471	9139	8080	7080	6600	6040
14'-6"	8'-6"	2489	3041	3681	3541	3128	2728	2568	2368
16'-0"	8'-6"	2044	2511	3071	2941	2588	2248	2108	1928
Allowable Roof Area in Square Feet for Various Loads on Post									
3" x 3" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6		Max. Load (#)	884	810	680	648	578	500	435
7'-0"	8'-6"	9725	586	549	451	438	392	339	315
10'-0"	8'-6"	7027	423	397	333	317	283	245	227
11'-6"	8'-6"	5313	320	300	252	239	214	185	171
13'-0"	8'-6"	4158	250	235	197	187	168	145	135
14'-6"	8'-6"	3442	201	189	158	151	135	116	108
16'-0"	8'-6"	2852	165	159	130	124	111	96	89
Allowable Roof Area in Square Feet for Various Loads on Post									
4" x 4" x 0.125" Hollow Extrusion - Aluminum Alloy 6063 T-6		Max. Load (#)	1577	1479	1241	1170	1026	893	793
7'-0"	8'-6"	23617	1410	1322	1109	1034	944	815	757
10'-0"	8'-6"	13401	1038	971	815	774	693	599	556
11'-6"	8'-6"	17181	783	734	616	566	524	453	421
13'-0"	8'-6"	10172	613	575	482	458	410	354	329
14'-6"	8'-6"	8176	483	462	388	368	330	285	248
16'-0"	8'-6"	6715	405	379	318	302	271	234	203

Notes:

1. Design must satisfy both height and area requirements.
2. Areas may be interpolated.

Table 2.3 Schedule of Post to Beam Size and Number of Thru-Bolts Possible w/ Min. Edge Distance of 2-1/2d

Beam Size	Minimum Post Size	Max. # Thru-Bolts @ Beam (e)	Max. # Thru-Bolts @ Post Base (Note 5)	Minimum Knee Brace** (Note 4)	Minimum Knee Brace Screws*** (Note 4)	Minimum Slicing Screws Spacing
		1/4" x 5/16"	3/8" x 1/2"	3/8" x 1/2"		
Hollow Sections						
2" x 4" x 0.050" TH	2" x 2" Hollow or Snap	5	3	2	1	2" x 3" x 0.045" #8 @ 24" O.C.
2" x 4" x 0.050" Hollow	2" x 3" Hollow or Snap	7	5	4	3	#8 @ 24" O.C. #8 @ 24" O.C.
Self-Mating Beams						
2" x 4" x 0.045" x 0.115"	3" x 3" x 0.060" Fluted	5	4	2	3	2" x 3" x 0.045" #8 @ 24" O.C.
2" x 5" x 0.050" x 0.135"	3" x 3" x 0.060" Fluted	7	5	3	3	2" x 3" x 0.045" #10 @ 24" O.C.
2" x 6" x 0.050" x 0.145"	3" x 3" x 0.060" Fluted	8	6	3	3	2" x 3" x 0.045" #10 @ 24" O.C.
2" x 7" x 0.057" x 0.135"	3" x 3" x 0.069" Hollow	10	7	4	3	2" x 4" x 0.050" #10 @ 24" O.C.
2" x 8" x 0.072" x 0.240"	3" x 3" x 0.093" Hollow	11	9	5	3	2" x 4" x 0.050" #12 @ 24" O.C.
2" x 9" x 0.082" x 0.260"	3" x 3" x 0.125" Hollow	13	10	6	3	2" x 4" x 0.050" #14 @ 24" O.C.**
2" x 9" x 0.082" x 0.321"	4" x 4" x 0.125" Hollow	13	11	6	4	2" x 4" x 0.050" #14 @ 24" O.C.**
2" x 10" x 0.092" x 0.389"	4" x 4" x 0.125" Hollow	15	15	7	5	2" x 4" x 0.050" #14 @ 24" O.C.**

1. * Minimum post/beam may be used as minimum knee brace

2. ** Fasten external screws or clips. See Details
3. ***For screw size see wind zone chart

4. (2) 1/4" Thru-Bolts may be substituted for screws.

Example:

load width of post = 12", post spacing = 10', w

Post Uplift = $12' \times 10' \times 21.1' = 1680\#$
From Table 9.4A* use wall thickness of lesser

Example: use $t_{wall} = 0.60"$
Allowable Loads # Bolts

1/4" = 468# / bolt	3.52 use
5/16" = 610 # / bolt	2.75 use

3/8" = 731# / bolt
1/2" = 1 004 # / bolt

Material Type	Top Edge In Direction Of Applied Load & Center To Center	Side Edge
Aluminum	2-1/2 D	1 D
Concrete	5 D	5 D
Wood	4 D	4 D

Knee Brace	Min. Length	Max Length
2" x 2" x 0.044"	1'-4"	2'-0"
2" x 3" x 0.045"	1'-6"	2'-6"
2" x 4" x 0.050"	1'-6"	3'-0"

Table 2.4.1 Footings - Maximum Roof Area for Attached Carport and Freestanding Gabled Carport Posts

Wind Zone (MPH) = Attached Cover Uplift = Free Standing Uplift =	100 16.6 #/SF 15.8 #/SF	110 17.7 #/SF 16.5 #/SF	120 19.2 #/SF 17.6 #/SF	123 20.2 #/SF 18.3 #/SF	129 21.7 #/SF 19.4 #/SF	130 22.2 #/SF 19.9 #/SF	133 23.7 #/SF 20.9 #/SF	140-1 25.2 #/SF 22.4 #/SF	140-2 26.7 #/SF 23.9 #/SF	150 28.2 #/SF 25.4 #/SF
Existing Slab on Grade with unknown reinforcement in good repair	55	51	43	41	37	32	29	27	23	17
Isolated Footing Dimensions**	Maximum Attributable Roof Area In Square Feet									
12" x 12" x 12"	23	22	18	17	16	13	13	12		
16" x 16" x 16"	386	44	35	33	30	26	24	22		
18" x 18" x 18"	738	46	42	42	39	34	31	29		
20" x 20" x 24"	997	58	55	48	44	39	34	29		
20" x 20" x 24"	1,484	89	84	70	67	60	52	48		
20" x 20" x 30"	1,855	112	105	88	84	75	65	60		
24" x 24" x 24"	1,891	114	107	90	85	76	68	61		
24" x 24" x 30"	2,364	142	134	112	108	95	82	77		
30" x 30" x 30"	3,225	194	182	153	145	130	112	104		
30" x 30" x 36"	3,870	233	219	183	174	156	135	125		

Notes:

1. Isolated Footing is a poured concrete rectangular solid (Length x Width x Depth).

Pre-Cast Block Footing

Freeze-Thaw	Winding notch (10 to 1.5 x 3)	Wind Zone (MPHs)	at 24" below grade with 8" bag pre-mix concrete and backfilled to grade.
100	110	120	123
140-2	150	130	140-2
16.6 #/SF	17.7 #/SF	21.1 #/SF	22.2 #/SF
24.8 #/SF	28.7 #/SF	30.9 #/SF	33.0 #/SF
10 #/SF	10 #/SF	12 #/SF	13 #/SF
15 #/SF	15 #/SF	15 #/SF	17 #/SF
Maximum	Attributable	Area	in Square Feet
117	110	92	89
78	69	63	59
122	114	96	91
85	71	66	61
127	119	100	95
75	68	64	64
1.947			
(1) x 80# Bag			
2.027			
(2) x 80# Bag			
2.107			
(3) x 80# Bag			

Notes:
Maximum uplift on post is determined by multiplying maximum attributable roof area x applied load.

Example:
Post tributary roof area = 77' Applied load for 110 MPH wind zone = 17.7 #/Sq Ft
Infill on roof = 77' x 17.7' = 1,363 #

Conversion Multipliers for Freestanding

	Wind zone	100	110	120	130	140-1	140-2	150
Roof Area Multiplier		1.00	1.05	1.13	1.36	1.48	1.58	1.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

ROOF PANELS GENERAL NOTES AND SPECIFICATIONS:

- Certain of the following structures are designed to be married to Site Built block, wood frame or DCA approved modular structures of adequate structural capacity. The contractor / home owner shall verify that the host structure is in good condition and of sufficient strength to hold the proposed addition.
- If the contractor / home owner has a question about the host structure, the owner (at his own expense) shall hire an architect or engineer to verify host structure capacity.
- When using TEK screws in lieu of S.M.S., longer screws must be used to compensate for drill head.
- For high velocity hurricane zones the minimum live load shall be 30 PSF.
- The shapes and capacities of pangs and composite panels are from "Industry Standard" shapes, except for manufacturers proprietary shapes. Unless the manufacturer of the product is known, use the "Industry Standard" Tables for allowable spans.
- When converting a screen room to a glass room or a carport to a garage, the roof must be checked and reinforced for the enclosed building requirements.
- Composite panels can be loaded as walk on or uniform loads and have, when tested, performed well in either test. The composite panel tables are based on bending properties determined at a deflection limit of L/180.
- Roll formed roof panels (pangs) are designed for uniform loads and can not be walked on unless plywood is laid across the ribs. Pangs have been tested and perform better in wind uplift loads than dead load + live loads. Spans for pangs are based on deflection of L/80 for high wind zone criteria.
- Interior walls & ceilings of composite panels may have 1/2" sheet rock added by securing the sheet rock w/ 1" fine thread sheet rock screws at 16" O.C. each wa
10. Spans may be interpolated between values but not extrapolated outside values.
11. Design Check List and Inspection Guides for Solid Roof Panel Systems are included in inspection guides for sections 2, 3A & B, 4 & 5. Use section 2 inspection guide for solid roof in Section 1.
12. All fascia gutter end caps shall have water relief ports.
13. All exposed screw heads through roof panels into the roof substructure shall be caulked w/ silicon sealant. Panel area around screws and washers shall be cleaned with xylene (xylol) or other solvent based cleaner prior to applying caulking.
14. All aluminum extrusions shall meet the strength requirements of ASTM B221 after powder coating
15. Dissimilar metals: Aluminum metals that will come in contact with ferrous metal surfaces or concrete /masonry products or pressure treated wood shall be coated w/ protective paint or bituminous materials that are placed between the materials listed above. The protective materials shall be as listed in section 2003.8.4.3 through 2003.8.4.6 of the Florida Building Code or Corobound Cold Galvanizing Primer and Finisher.
16. Fasteners or aluminum parts shall be corrosive resistance materials such as non magnetic stainless steel grade 304 or 316; Ceramic coated double zinc coated or powder coated steel fasteners only fasteners that are warranted as corrosive resistant shall be used; Unprotected steel fasteners shall not be used.

ROOF PANELS DESIGN STATEMENT:

The roof systems are main force resisting systems and components and cladding in conformance with the 2007 Florida Building Code w/ 2009 Supplements. Such systems must be designed using loads for components and cladding. Section 7 uses ASCE 7-05 Section 6.5, Analytical Procedure for Components and Cladding Loads. The procedure assumes mean roof height less than 30'; roof slope 0 to 20°; I = 0.87 for 100 MPH and 0.77 for 110 MPH or higher wind loads for Attached Carports and Screen/Rooms and I = 1.00 for Glass and Modular Enclosed Rooms. Negative internal pressures are 0.00 for open structures, 0.18 for enclosed structures. All pressures shown are in PSF.

- Freestanding structures with mono-sloped roofs have a minimum live load of 10 PSF. The design wind loads are those for an open structure and are reduced by the ASCE 7-05 open mono-sloped factor of 0.75.
- Attached covers such as carports, patio covers, gabled carports and screen rooms have a minimum live load of 10 PSF for 100 to 140-1 MPH wind zones and 30 PSF for 140-2 to 150 MPH wind zones. The design wind loads used are for open and enclosed structures.
- Glass room roof design loads use a minimum live load of 20 PSF for 100 to 140-1 MPH wind zones and 30 PSF for 140-2 to 150 MPH wind zones and wind loads are from ASCE 7-05 for glass and modular rooms.
- For live loads use a minimum live load of 20 PSF or 30 PSF for 140B and 150 MPH zones. Wind loads are from ASCE 7-05 Section 6.5, Analytical Procedure for glass and modular rooms.
- For partially enclosed structures calculate spans by multiplying Glass and Modular room spans for roll formed roof panels by 0.93 and composite panels by 0.89.

Design Loads for Roof Panels (PSF)

	Open Structures Mono Sloped				Screen Rooms & Attached Covers				Glass & Modular Enclosed Rooms & Roof Overs				Overhang / Cantilever All Rooms			
	I = 0.87 for 90 to 100 MPH I = 0.77 for 100 to 150 MPH KCpl = 0.00 Zone 2				I = 0.87 for 90 to 100 MPH I = 0.77 for 100 to 150 MPH KCpl = 0.00 Zone 2				I = 1.00 KCpl = 0.00 Zone 2				I = 1.00 KCpl = 0.18 Zone 3			
	Basic Wind Pressure	Effective Area	Basic Wind Pressure	Effective Area	Basic Wind Pressure	Effective Area	Basic Wind Pressure	Effective Area	Basic Wind Pressure	Effective Area	Basic Wind Pressure	Effective Area	Basic Wind Pressure	Effective Area	Basic Wind Pressure	Effective Area
100 MPH	13	50	20	10	17	20	23	26	17	23	27	30	17	27	38	45
110 MPH	14	14	17	20	18	21	25	28	18	27	32	36	18	33	46	55
120 MPH	17	17	20	23	22	25	30	33	22	32	39	43	22	39	54	65
123 MPH	18	17	21	24	23	26	32	35	23	34	41	45	23	41	57	69
130 MPH	20	20	23	27	26	29	35	39	26	38	45	51	26	46	64	77
140-1 MPH	23	23	27	31	30	34	40	46	30	44	53	59	30	53	74	89
140-2 MPH	23	23	27	31	30	34	40	46	30	44	53	59	30	54	74	89
150 MPH	26	26	32	36	34	39	46	52	34	51	60	68	34	61	85	102

* Minimum live load of 30 PSF controls in high wind velocity zones.

To convert from the Exposure "B" loads above to Exposure "C" or "D" see Table 7B on this page.

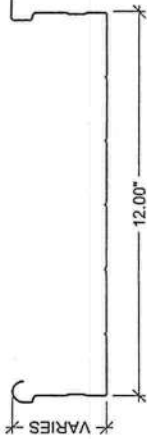
Anchors for composite panel roof systems were computed on a load width of 10' and a maximum of 20' projection with a 2' overhang. Any greater load width shall be site specific.

Conversion Table 7A Load Conversion Factors Based on Mean Roof Height from Exposure "B" to "C" & "D"

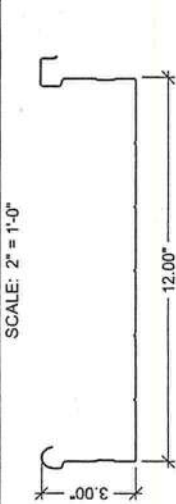
Mean Roof Height	Exposure "B" to "C"		Exposure "B" to "D"	
	Load Conversion Factor	Span Multiplier	Load Conversion Factor	Span Multiplier
0 - 15'	1.21	0.91	0.83	1.47
15' - 20'	1.29	0.88	0.92	1.54
20' - 25'	1.34	0.86	0.91	1.60
25' - 30'	1.40	0.85	0.89	1.66

* Use larger mean roof height of host structure or enclosure
Values are from ASCE 7-05

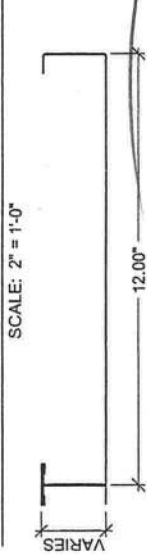
INDUSTRY STANDARD ROOF PANELS



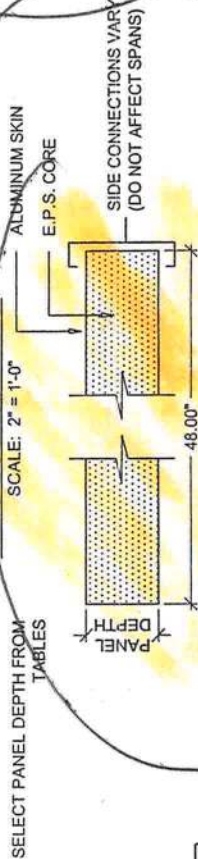
12" WIDE x VARIOUS HEIGHT RISER ROOF PANEL



12" WIDE x 3" RISER INTERLOCKING ROOF PANEL



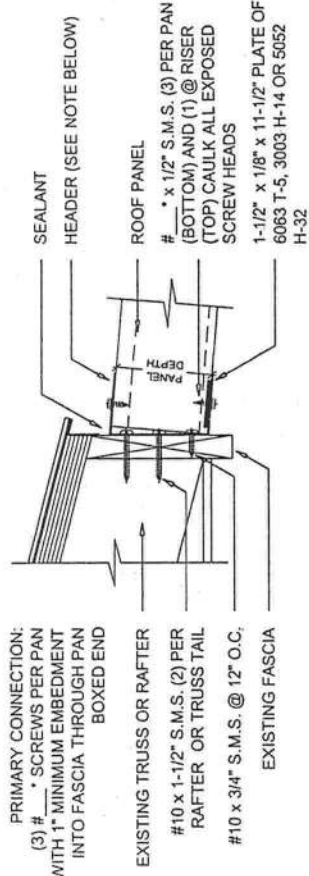
CLEATED ROOF PANEL



COMPOSITE ROOF PANEL (INDUSTRY STANDARD)

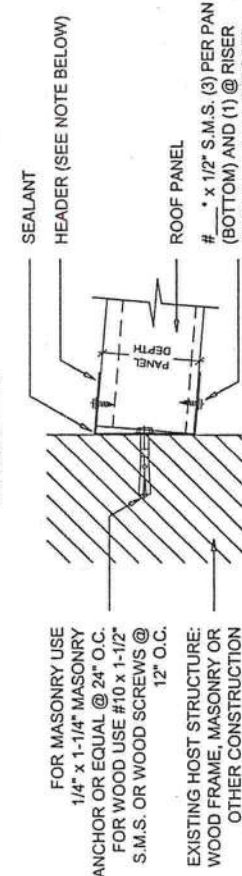
SCALE: 2" = 1'-0"

PAN ROOF ANCHORING DETAILS



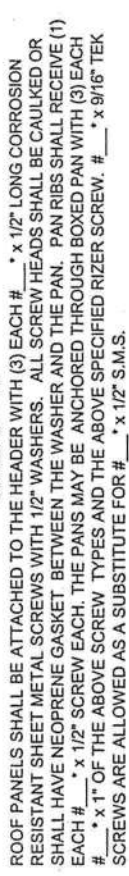
ROOF PANEL TO FASCIA DETAIL

SCALE: 2" = 1'-0"



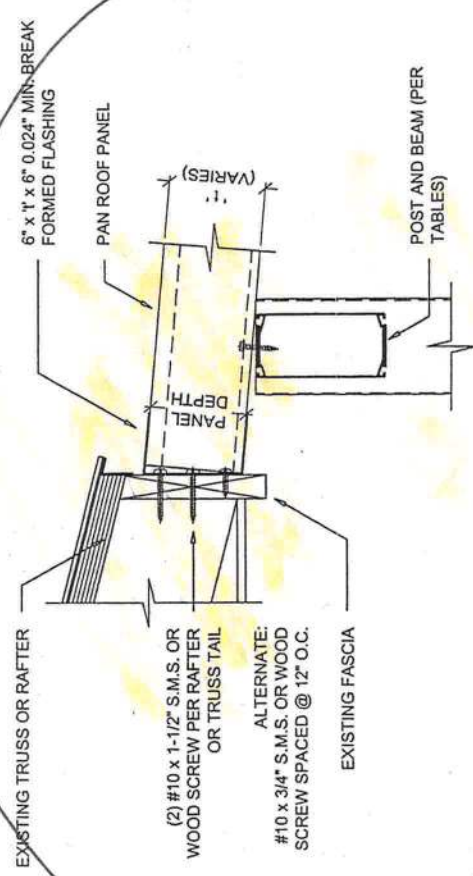
ROOF PANEL TO WALL DETAIL

SCALE: 2" = 1'-0"



* SELECT THE APPROPRIATE SCREW SIZE PER WIND ZONE FROM TABLE BELOW.

#8	#10	#12	#14
100-123	130	140	150

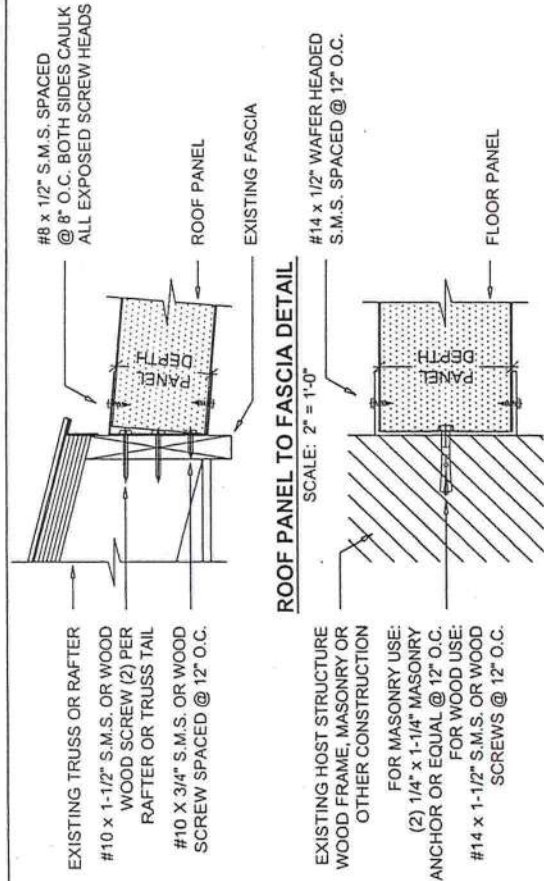


ALTERNATE MOBILE HOME FLASHING FOR FOURTH WALL CONSTRUCTION PAN ROOF PANELS

SCALE: 2" = 1'-0"

INSTALLATION INSTRUCTIONS:

- PLACE (2) BEADS OF CAULKING ON BACK SIDE OF HEADER BEFORE INSTALLING.
- SLIDE 1" TAB AT TOP OF HEADER UNDER DRIP EDGE. DO NOT PUSH DRIP EDGE UP. DRIP EDGE MUST MAINTAIN SAME PLANE AS SLOPE OF ROOF.
- FASTEN HEADER TO FASCIA BOARD WITH #10 x 1" SCREWS @ 6" O.C. STAGGERED TOP AND BOTTOM (SEE DETAIL ABOVE)
- PLACE PAN ROOF PANEL INTO HEADER AND ATTACH TO 4TH WALL POST AND BEAM SYSTEM ONLY. DO NOT ATTACH TO HEADER. HEADER IS USED AS FLASHING ONLY.



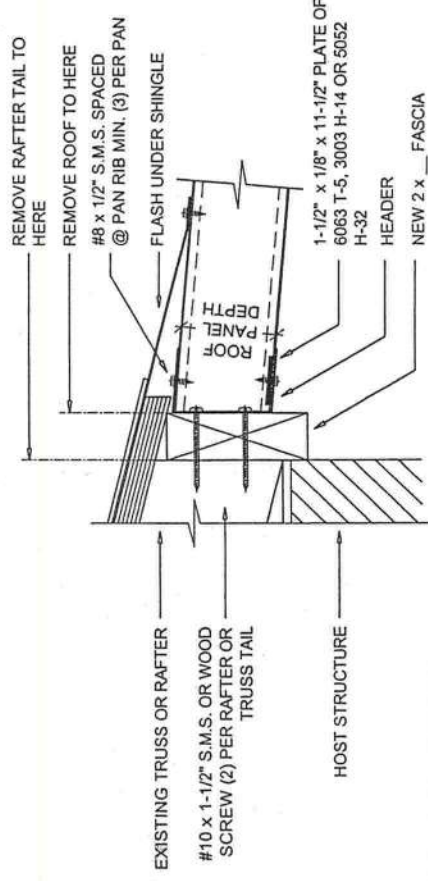
ROOF OR FLOOR PANEL TO WALL DETAIL

WOOD STRUCTURES SHOULD CONNECT TO TRUSS BUTTS OR THE SUB-FASCIA FRAMING WHERE POSSIBLE ONLY. 15% OF SCREWS CAN BE OUTSIDE THE TRUSS BUTTS. SUB-FASCIA AND THOSE AREAS SHALL HAVE DOUBLE ANCHORS. ALL SCREWS INTO THE HOST STRUCTURE SHALL HAVE MINIMUM 1-1/4\"/>

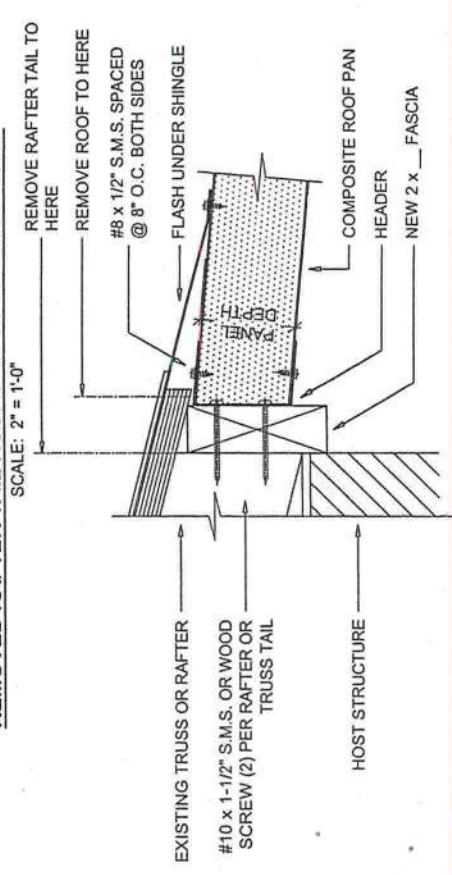
HEADER INSIDE DIMENSION SHALL BE EQUAL TO PANEL OR PAN'S DEPTH "T". THE WALL THICKNESS SHALL BE THE THICKNESS OF THE ALUMINUM PAN OR COMPOSITE PANEL WALL THICKNESS. HEADERS SHALL BE ANCHORED TO THE HOST STRUCTURE WITH ANCHORS APPROPRIATE FOR THE MATERIAL CONNECTED TO. THE ANCHORS DETAILED ABOVE ARE BASED ON A LOAD FROM 120 M.P.H. FOR SBC SECTION 1806 FOR A MAXIMUM POSSIBLE SPAN OF THE ROOF PANEL FROM THE HOST STRUCTURE.

ANCHORS BASED ON 120 MPH WIND VELOCITY. FOR HIGHER WIND ZONES USE THE FOLLOWING CONVERSION:

100-123	130	140	150
#8	#10	#12	#12

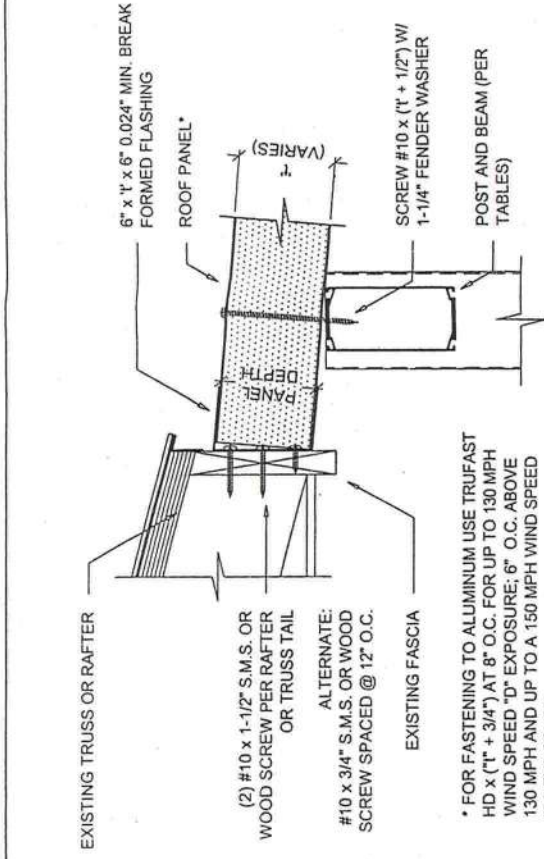


REMOVED RAFTER TAIL ROOF PAN TO FASCIA DETAIL



REMOVED RAFTER TAIL COMPOSITE ROOF PANEL TO WALL DETAIL

SCALE: 2" = 1'-0"

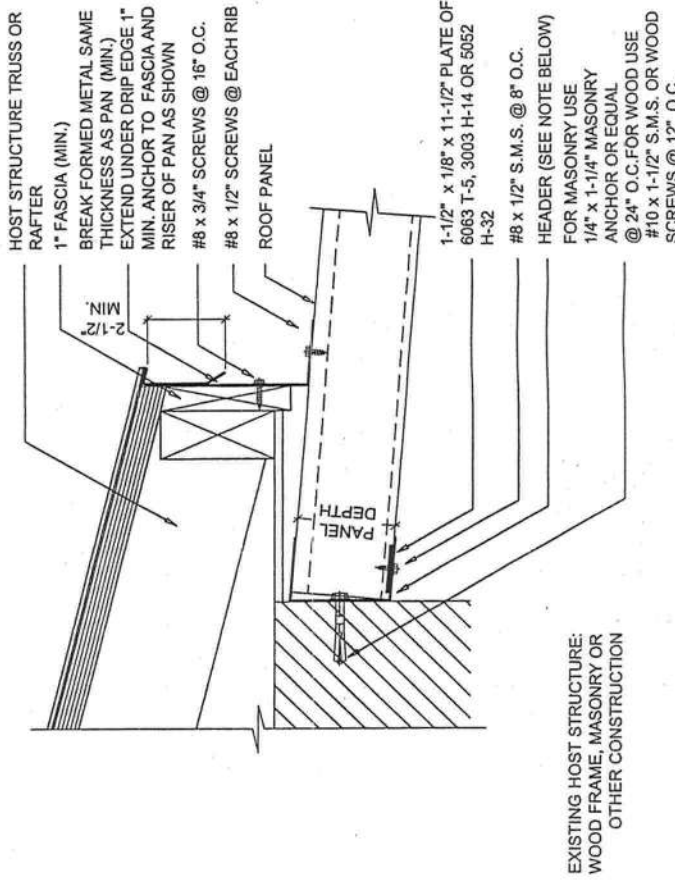


ALTERNATE MOBILE HOME FLASHING FOR FOURTH WALL CONSTRUCTION COMPOSITE ROOF PANELS

SCALE: 2" = 1'-0"

INSTALLATION INSTRUCTIONS:

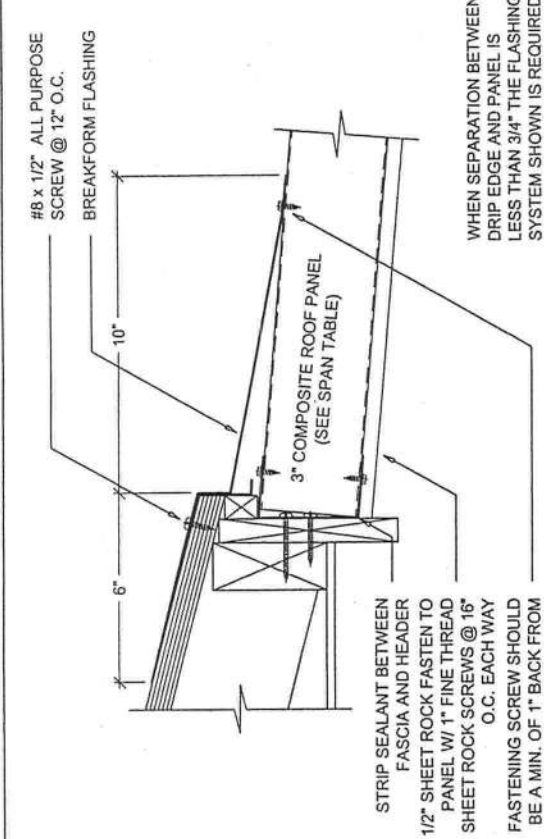
- PLACE (2) BEADS OF CAULKING ON BACK SIDE OF HEADER BEFORE INSTALLING.
- SLIDE 1" TAB AT TOP OF HEADER UNDER DRIP EDGE. DO NOT PUSH DRIP EDGE UP. DRIP EDGE MUST MAINTAIN SAME PLANE AS SLOPE OF ROOF.
- FASTEN HEADER TO FASCIA BOARD WITH #10 x 1" SCREWS @ 6" O.C. STAGGERED TOP AND BOTTOM (SEE DETAIL ABOVE)
- PLACE COMPOSITE ROOF PANEL INTO HEADER AND ATTACH TO 4TH WALL POST AND BEAM SYSTEM ONLY. DO NOT ATTACH TO HEADER. HEADER IS USED AS FLASHING ONLY.



ALTERNATE ROOF PANEL TO WALL DETAIL

SCALE: 2" = 1'-0"

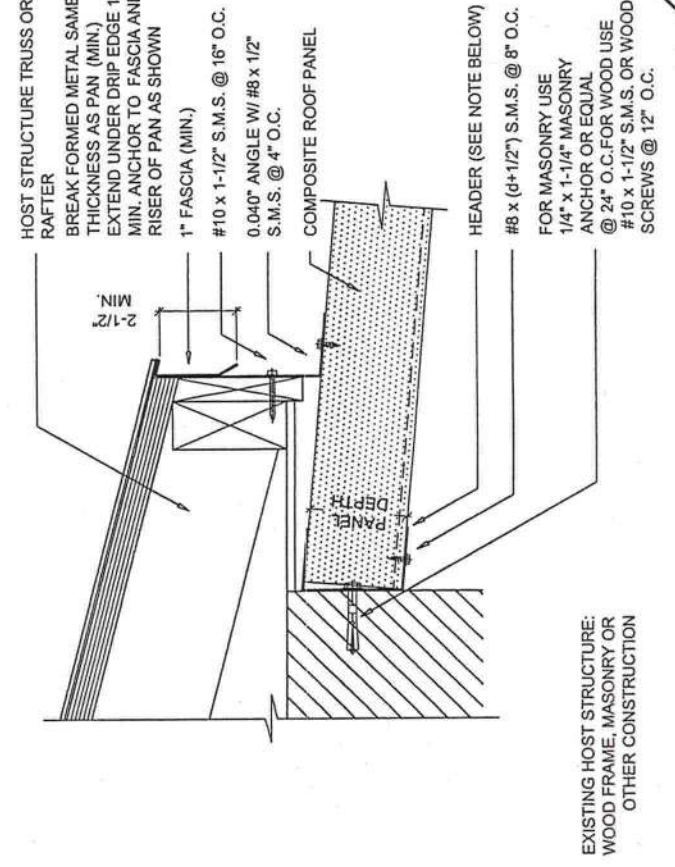
ROOF PANELS SHALL BE ATTACHED TO THE HEADER W/ (3) EACH #8 x 1/2" LONG CORROSION RESISTANT S.M.S. W/ 1/2" WASHERS. ALL SCREW HEADS SHALL BE CAULKED OR SHALL HAVE NEOPRENE GASKET BETWEEN THE WASHER AND THE PAN. PAN RIBS SHALL RECEIVE (1) EACH #8 x 1/2" SCREW EACH. THE PANS MAY BE ANCHORED THROUGH BOXED PAN W/ (3) EACH #8 x 1" OF THE ABOVE SCREW TYPES AND THE ABOVE SPECIFIED RIB SCREW.



ALTERNATE DETAIL FOR FLASHING ON SHINGLE ROOFS

SCALE: 2" = 1'-0"

- NOTES:
- FLASHING TO BE INSTALLED A MIN. 6" UNDER THE FIRST ROW OF SHINGLES.
 - STANDARD COIL FOR FLASHING IS 16" .019 MIL. COIL.
 - FIRST ROW OF EXISTING NAILS MUST BE REMOVED TO INSTALL FLASHING PROPERLY.
 - FLASHING WILL BE INSTALLED UNDER THE FELT PAPER WHEN POSSIBLE.
 - HEADER WILL BE PUTTY TAPED AND CAULKED EVEN THOUGH FLASHING IS TO BE INSTALLED.
 - IF THE DROP FROM THE EDGE OF THE SHINGLE DOWN TO THE TOP OF THE HEADER IS MORE THAN 1" THEN THE DRIP EDGE WILL HAVE TO BE BROKEN TO CONFORM TO THIS DROP.
 - WHEN USING FLASHING THE SMALLEST SIZE HEADER AVAILABLE SHOULD BE USED. 12" .03 MIL. ROLLFORM OR 8" BREAKFORM IS BEST SUITED FOR HEADER SINCE IT KEEPS THE FLAP LIP OF THE HEADER BACK FROM THE EDGE OF THE FLASHING.
 - WHEN SEPARATION BETWEEN DRIP EDGE AND PANEL FLASHING IS REQUIRED 1/2" SEPARATION MINIMUM.
 - STRIP SEALANT BETWEEN FASCIA AND HEADER PRIOR TO INSTALLATION.



ALTERNATE COMPOSITE ROOF PANEL TO WALL DETAIL

SCALE: 2" = 1'-0"

COMPOSITE ROOF PANELS SHALL BE ATTACHED TO EXTRUDED HEADER W/ (3) EACH #8 x (d+1/2") LONG CORROSION RESISTANT S.M.S.

ALUMINUM STRUCTURES DESIGN MANUAL SCREEN, ACRYLIC & VINYL ROOMS ROOF PANEL CONNECTION DETAILS

2007 FLORIDA BUILDING CODE (2009 SUPPLEMENTS) - 2010 EDITION

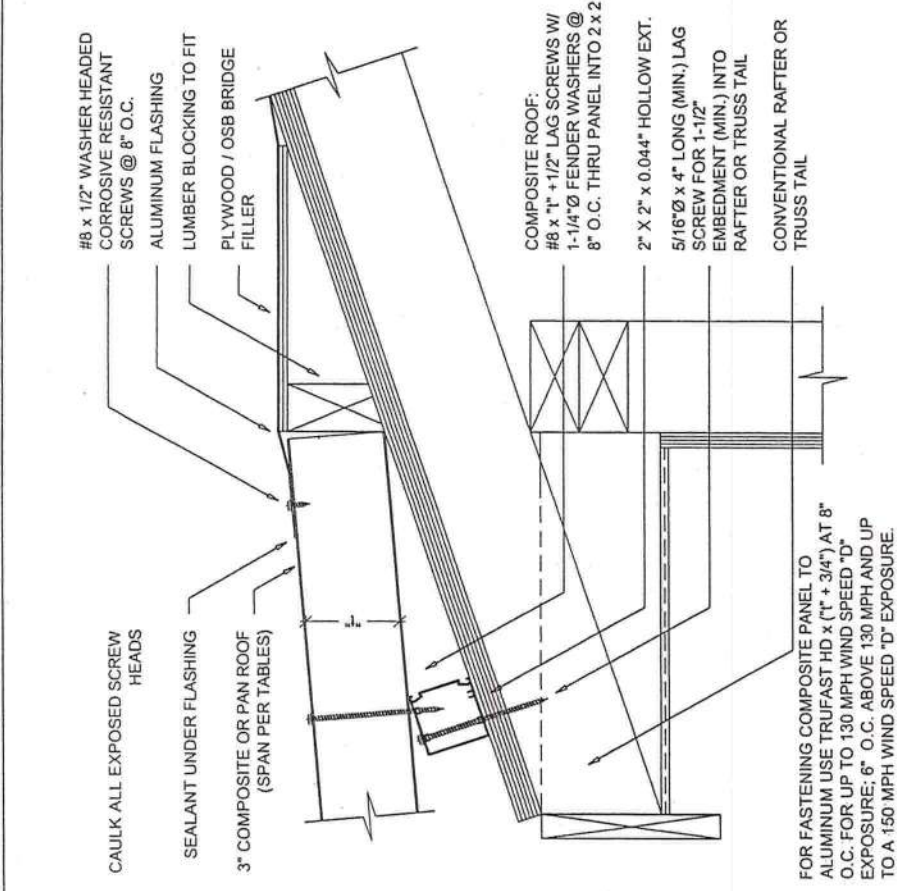
Lawrence E. Bennett, P.E. FL # 16644
CIVIL & STRUCTURAL ENGINEERING
P.O. Box 290036, Port Orange, FL 32129
Telephone #: (386) 767-4774 Fax #: (386) 767-6556
http://www.lebbe.com/

Down & Country Industries, Inc.
Wholesale Aluminum Distributors
400 W. McNAB ROAD, FORT LAUDERDALE, FLORIDA 33309
PHONE: (954) 970-9999 FAX: (954) 972-1338

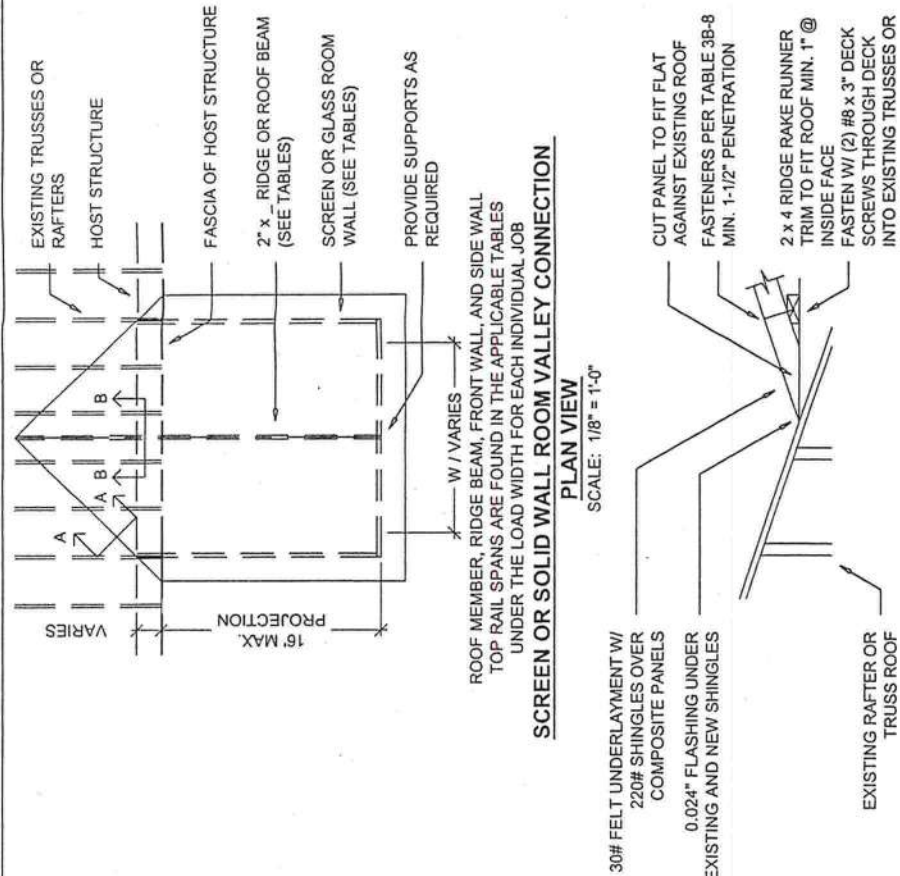
SHEET

10B

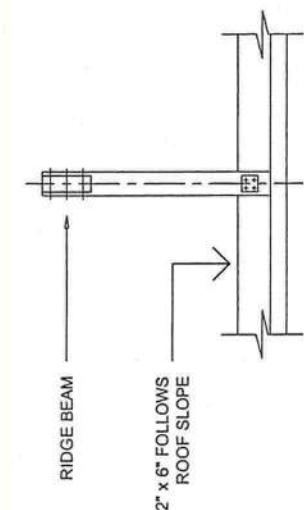
12 OF 08-12-2010



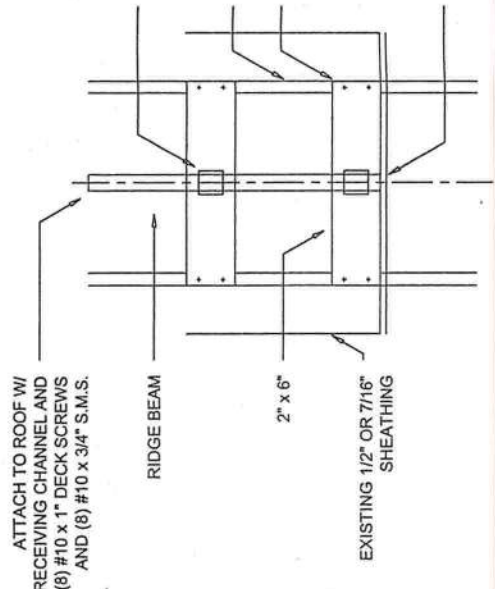
WEDGE ROOF CONNECTION DETAIL
SCALE: 2" = 1'-0"



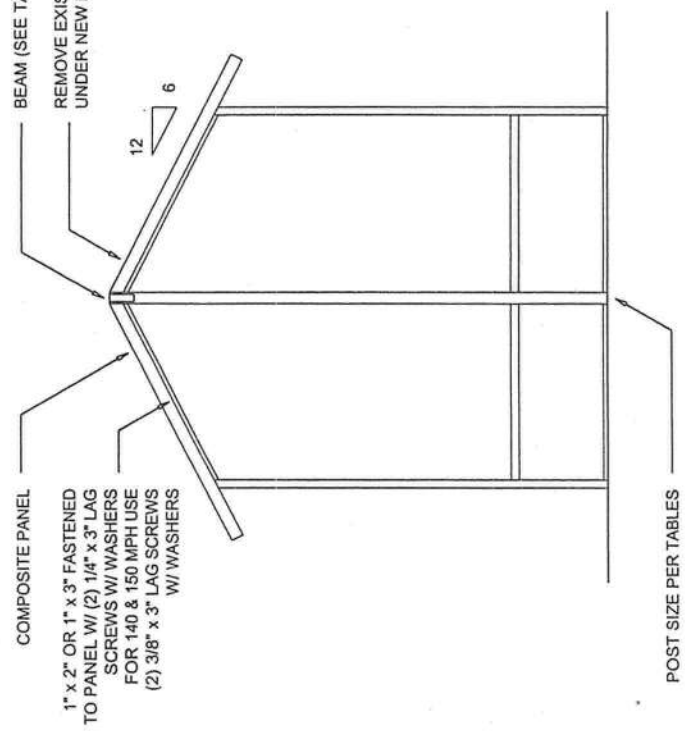
A - A - SECTION VIEW
SCALE: 1/2" = 1'-0"



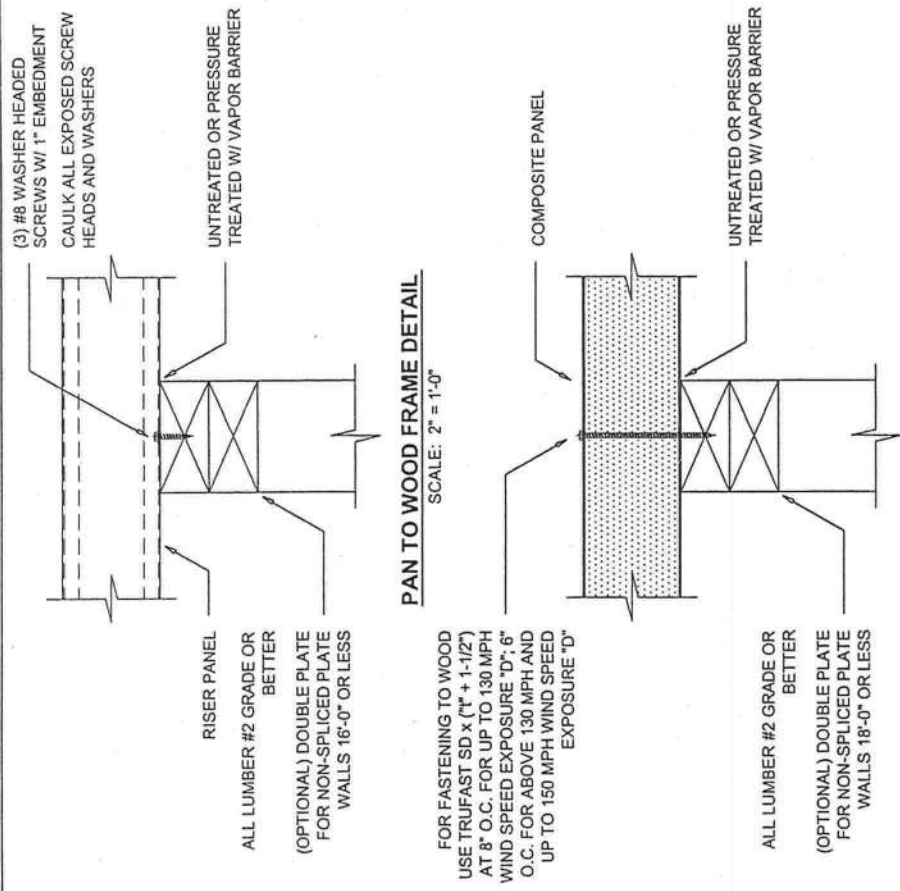
B - B - ELEVATION VIEW
SCALE: 1/2" = 1'-0"



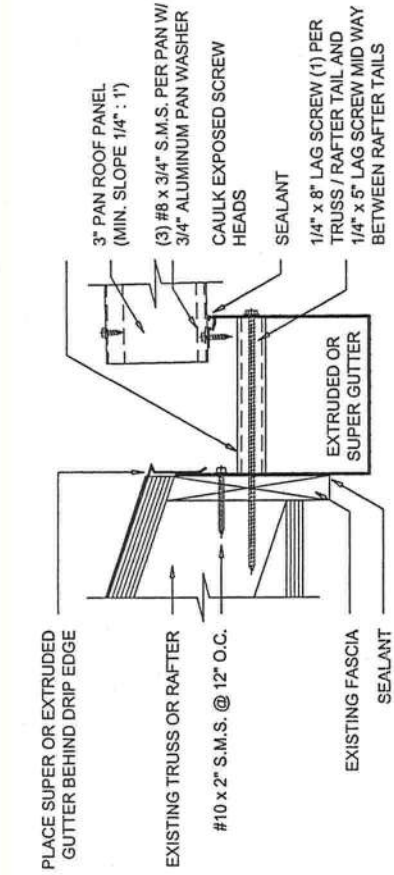
B - B - PLAN VIEW
SCALE: 1/2" = 1'-0"



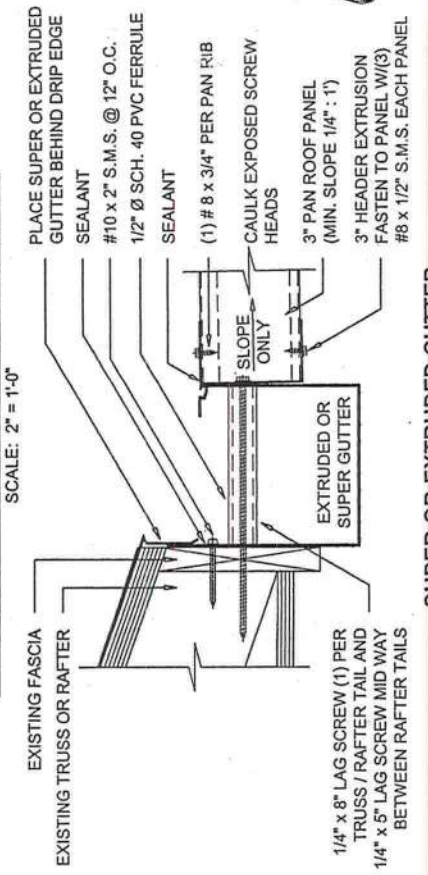
SCREEN OR SOLID WALL ROOM VALLEY CONNECTION FRONT WALL ELEVATION VIEW
SCALE: 1/4" = 1'-0"



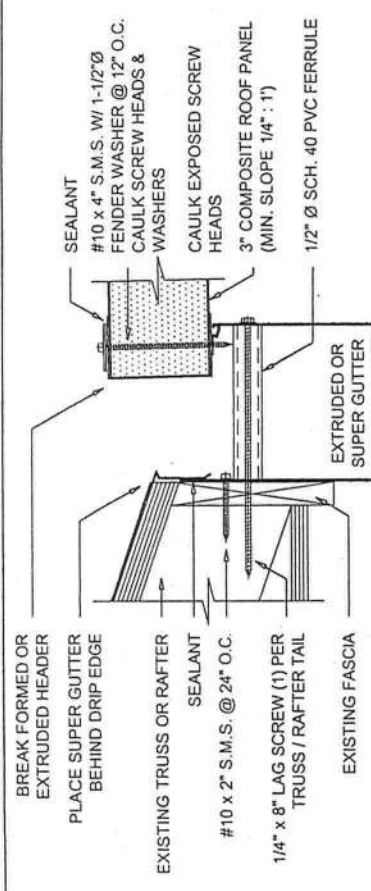
COMPOSITE PANEL TO WOOD FRAME DETAIL
SCALE: 2" = 1'-0"



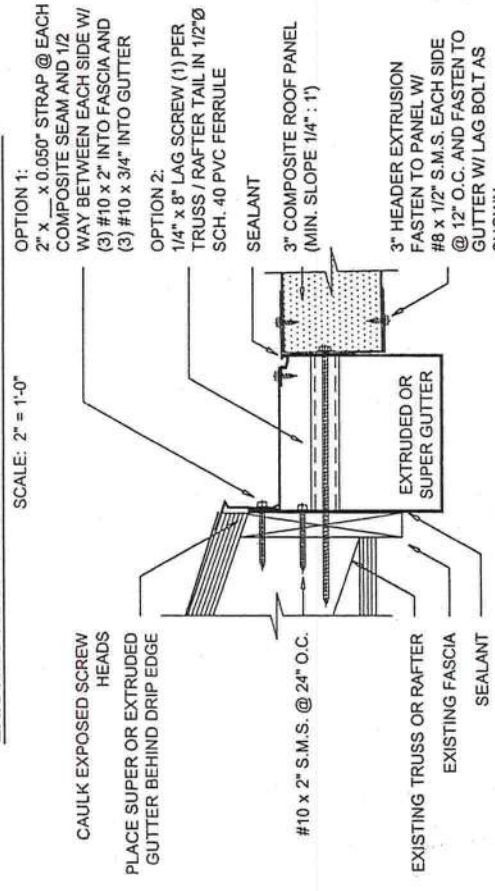
SUPER OR EXTRUDED GUTTER EXISTING ROOF TO PAN ROOF PANEL DETAIL 1
SCALE: 2" = 1'-0"



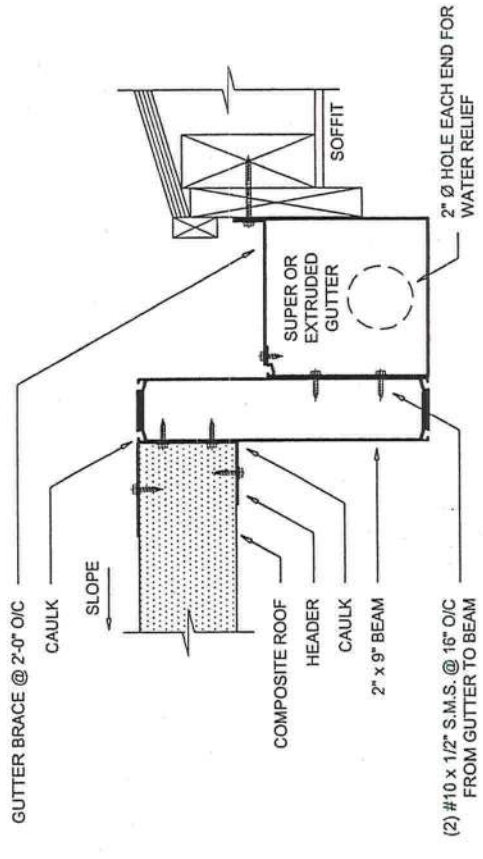
SUPER OR EXTRUDED GUTTER EXISTING ROOF TO PAN ROOF PANEL DETAIL 2
SCALE: 2" = 1'-0"



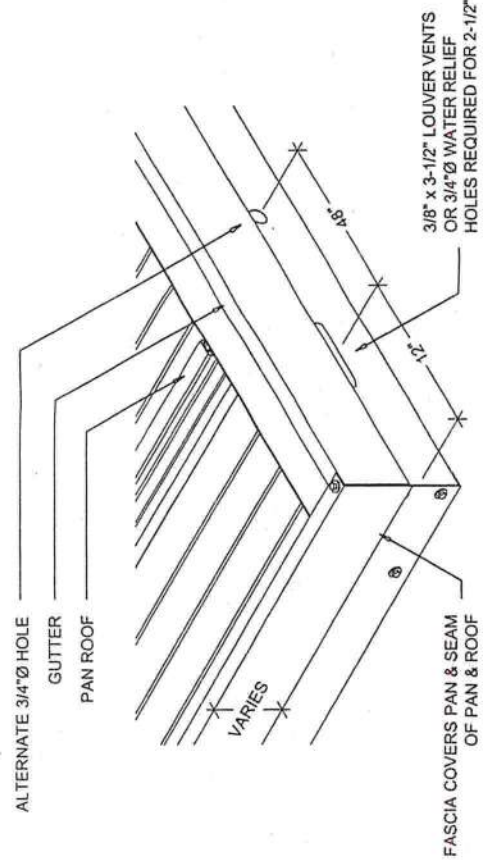
EXISTING ROOF TO COMPOSITE ROOF PANEL DETAIL 1



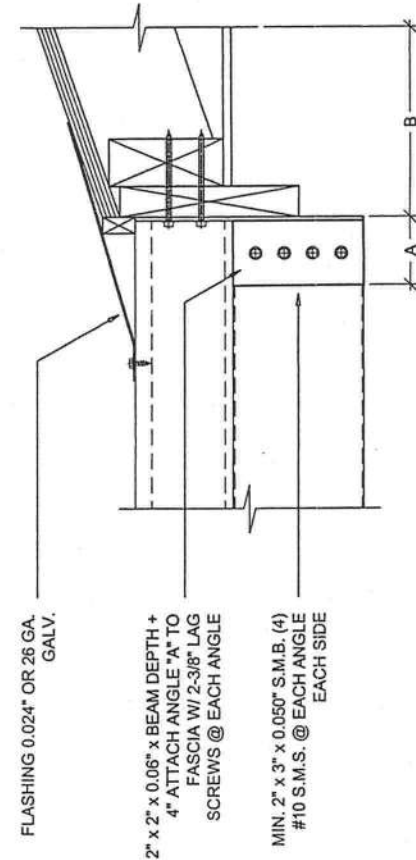
EXISTING ROOF TO COMPOSITE ROOF PANEL DETAIL 2



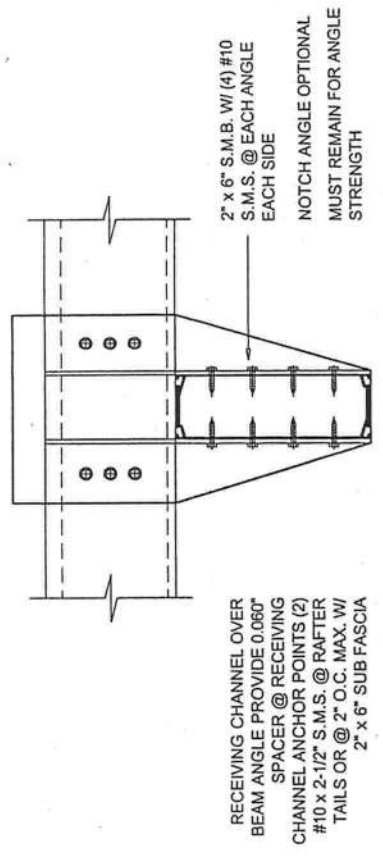
SUPER OR EXTRUDED GUTTER TO 2\"/>



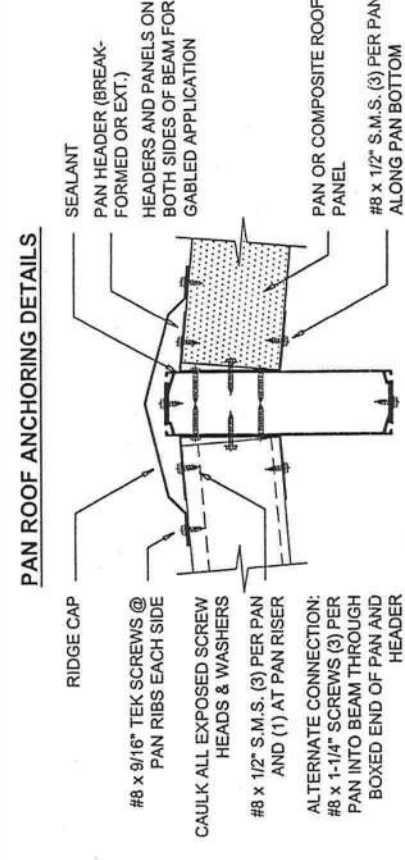
PAN FASCIA & GUTTER END CAP WATER RELIEF DETAIL



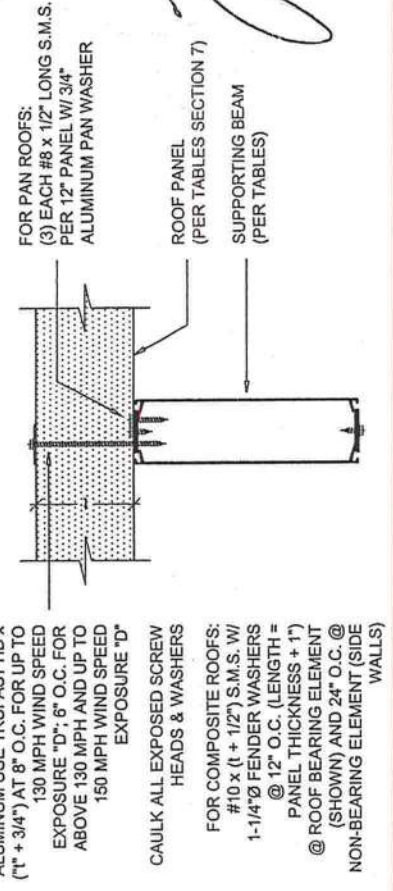
CANTILEVERED BEAM CONNECTION TO FASCIA DETAIL



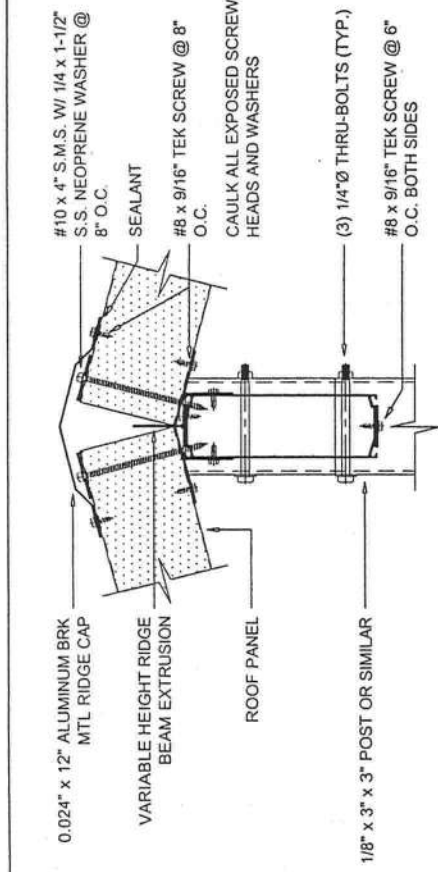
CANTILEVERED BEAM CONNECTION AT FASCIA (END VIEW)



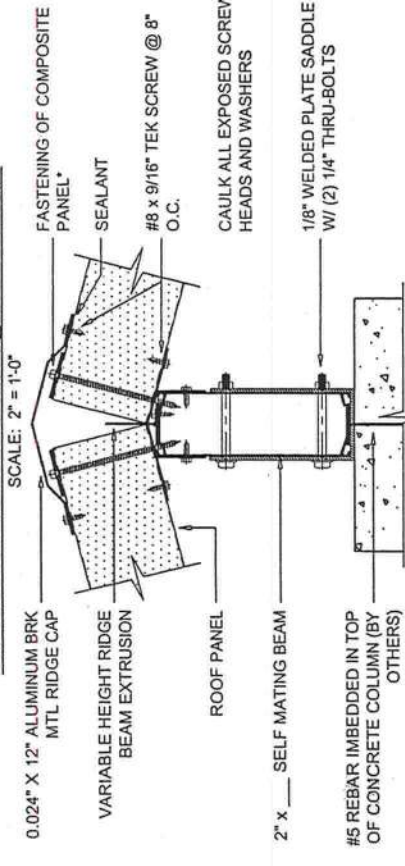
ROOF PANEL TO BEAM FASTENING DETAIL



ROOF PANEL TO BEAM FASTENING DETAIL



PANEL ROOF TO RIDGE BEAM @ POST DETAIL

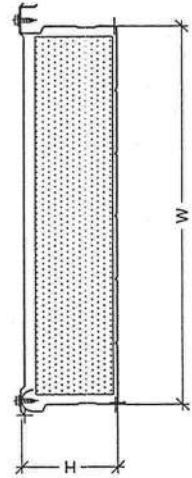


* WHEN FASTENING TO ALUMINUM USE TRUFAST HD x (1\"/>

PANEL ROOF TO RIDGE BEAM @ CONCRETE POST DETAIL

SCALE: 2\"/>

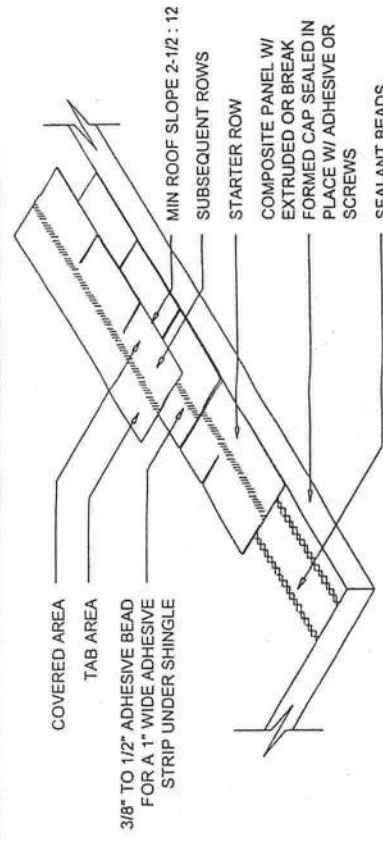
0.024\"/>



TYPICAL INSULATED PANEL

SCALE: 2\"/>

- NOTES:**
1. INSTALL RIGID FOAM INSULATION INTO ALUMINUM ROOF PAN.
 2. COVER INSULATION WITH 0.024\"/>
 3. INSULATION PANEL SHALL BE CLOSED WITH ALUMINUM END CAP TO SECURE PLACEMENT AND TO DISCOURAGE THE NESTING OF WILDLIFE AND OR INSECTS.
 4. PROTECTOR PANEL WILL BE SECURED BY #8 x 5/8\"/>
 5. SCREW PATTERN WILL BE 12\"/>
 6. ALUMINUM END CAP WILL BE ATTACHED WITH (3) #8 x 1/2\"/>
- NOTE: FOR PANEL SPANS W/ 0.024\"/>



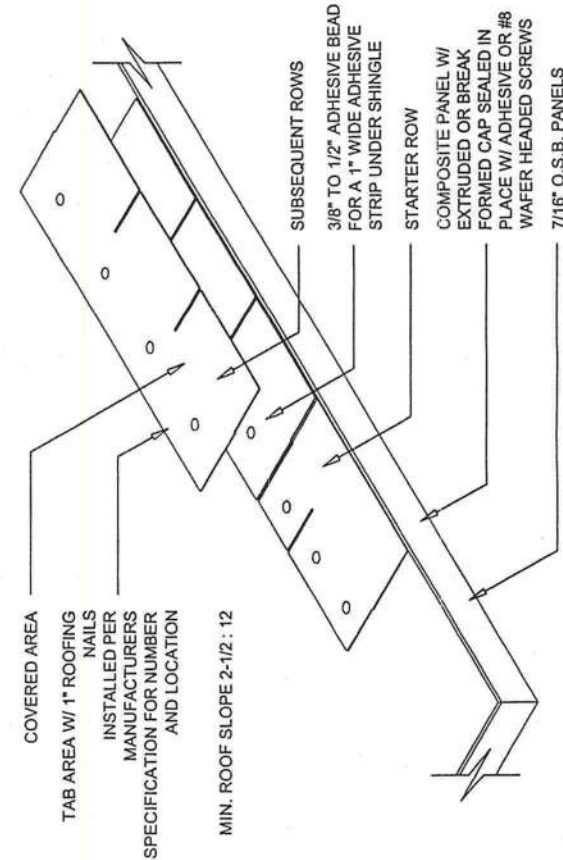
ATTACH SHINGLES TO COMPOSITE ROOF PANELS WITH INDUSTRIAL ADHESIVE*. APPLY ADHESIVE IN A CONTINUOUS BEAD 3/8\"/>

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

* ADHESIVE: BASF DEGA SEAL™ 2000

COMPOSITE ROOF PANEL WITH SHINGLE FINISH DETAIL

SCALE: N.T.S.



- SPECIFICATIONS FOR APPLYING O.S.B. AND SHINGLES FOR ROOF SLOPES OF 2-1/2 : 12 AND GREATER
1. INSTALL PRO-FAB PANELS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 2. CLEAN ALL JOINTS AND PANEL SURFACE WITH XYLENE (XYLOL) OR OTHER SOLVENT BASED CLEANER.
 3. SEAL ALL SEAMS WITH BASF DEGA SEAL™ 2000 AND CLEAN THE ROOF TO REMOVE ANY DIRT, GREASE, WATER OR OIL.
 4. APPLY 3/8\"/>
 5. INSTALL 15# FELT PAPER IN ACCORDANCE WITH THE 2007 FLORIDA BUILDING CODE W/ 2009 SUPPLEMENTS, 1507.38.
 6. INSTALL SHINGLES IN ACCORDANCE WITH THE 2007 FLORIDA BUILDING CODE W/ 2009 SUPPLEMENTS, 1507.3.
 7. ALTERNATE OSB FASTENING SYSTEM: #8 WAFER HEADED SCREWS OR STEEL STUD SHEET ROCK SCREWS @ 8\"/>

COMPOSITE ROOF PANEL WITH O.S.B. AND STANDARD SHINGLE FINISH DETAIL

SCALE: N.T.S.

Table 7.1.1 Allowable Spans and Design / Applied Loads* (#/SF) for Industry Standard Riser Panels for Various Loads
1-1/4" x 12" x 0.024" 2 or 5 Rib Riser Panels Aluminum Alloy 3105 H-14 or H-25

Open Access 1-1/4" x 17" x 0.027" - 2.5 Rib Rear Panels										Glass & Modular Rooms				Overlaping			
Non-Sloped Roof										1&2				1&2			
Wind Zone	1&2	3	4	3	4	1&2	3	4	1&2	3	4	1&2	3	4	1&2	3	4
(MPH)	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*
10	4-10	25	6-1	25	4-9	26	5-11	26	4-6	30	5-9	30	1-10	45			
110	5-3	20	8-6	20	4-8	28	5-10	28	4-6	30	5-9	30	1-10	45			
120	6-1	20	8-6	20	4-8	28	5-10	28	4-6	30	5-9	30	1-10	45			
130	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
140	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
150	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
160	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
170	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
180	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
190	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
200	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
210	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
220	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
230	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
240	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
250	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
260	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
270	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
280	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
290	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
300	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
310	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
320	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
330	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
340	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
350	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
360	4-11	24	8-6	24	4-4	35	5-4	35	4-5	41	4-5	41	4-5	41			
1-1/4" x 12" x 0.030" - 2.5 Rib Rear Panels																	
Non-Sloped Roof										1&2				1&2			
Wind Zone	1&2	3	4	3	4	1&2	3	4	1&2	3	4	1&2	3	4	1&2	3	4
(MPH)	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*
10	6-3	25	8-5	25	6-1	25	6-2	26	4-7	30	5-9	30	1-10	45			
110	6-3	25	8-5	25	6-1	25	6-2	26	4-7	30	5-9	30	1-10	45			
120	6-3	25	8-5	25	6-1	25	6-2	26	4-7	30	5-9	30	1-10	45			
130	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
140	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
150	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
160	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
170	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
180	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
190	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
200	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
210	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
220	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
230	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
240	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
250	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
260	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
270	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
280	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
290	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
300	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
310	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
320	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
330	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
340	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
350	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
360	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
1-1/4" x 12" x 0.050" - 2.5 Rib Rear Panels																	
Non-Sloped Roof										1&2				1&2			
Wind Zone	1&2	3	4	3	4	1&2	3	4	1&2	3	4	1&2	3	4	1&2	3	4
(MPH)	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*	spanload*
10	6-3	25	8-5	25	6-1	25	6-2	26	4-7	30	5-9	30	1-10	45			
110	6-3	25	8-5	25	6-1	25	6-2	26	4-7	30	5-9	30	1-10	45			
120	6-3	25	8-5	25	6-1	25	6-2	26	4-7	30	5-9	30	1-10	45			
130	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
140	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
150	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
160	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
170	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
180	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
190	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
200	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
210	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
220	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
230	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
240	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
250	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
260	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
270	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
280	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
290	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
300	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
310	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
320	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
330	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
340	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
350	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			
360	5-7	23	6-6	23	4-9	33	5-10	33	4-3	5-4	5-4	5-4	5-4	5-4			

Table 7.1.3 Allowable Spans and Design / Applied Loads* (#/SF) for Industry Standard Riser Panels for Various Loads
3" x 12" x 0.024" 2 or 5 Rib Riser Panels, Aluminum Alloy 3105 H-14 or H-25

[illegible]

Table 7.1.2 Allowable Spans and Design / Applied Loads* (#/SF) for Industry Standard Riser Panels for Various Loads
 1'-1/2" x 12" x 0.024" 2 or 5 Rib Riser Panels Aluminum Alloy 3105 H-14 or H-25

1-1/2" x 12" x 0.024" 2 or 5 Rib Riser Panels																				
Open Structures				Screen Structures				Glass & Modular Rooms				Overhang								
Wind Zone				1&2 Mono-Sloped Roof				1&2 & Attached Covers				1&2 Enclosed				Overhang				
(MPH)				1&2				1&2				1&2				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3				3				Overhang				
1&2				3				3												

Table 7.1.4
Allowable Spans and Design / Applied Loads* (#/SF)
for Industry Standard Riser Panels for Various Loads
3" x 12" x 0.024" 2 or 5 Rib Riser Panels, Aluminum Alloy 3105 H-28

[illegible]

**Table 7.1.5 Allowable Spans and Design / Applied Loads* (#/SF)
for Industry Standard Cleated Panels for Various Loads**
1-3/4" x 12" x 0.024" Cleated Panels Aluminum Alloy 3105 H-14 or H-25

Wind Zone	Open-Sloped Roof			Screen Roofs			Glass & Modular Rooms			Overhanging Cantilever
Zone	1&2	3	4	1&2	3	4	1&2	3	4	All
(MPH)	span/roof	span/roof	span/roof	span/roof	span/roof	span/roof	span/roof	span/roof	span/roof	span/roof
100	8'-10"	16'	15'	8'-10"	15'	15'	8'-10"	15'	15'	27'-11"
110	8'-10"	16'	15'	8'-10"	15'	15'	8'-10"	15'	15'	27'-11"
120	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
130	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
140	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
150	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
160	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
170	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
180	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
190	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
200	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
210	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
220	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
230	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
240	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
250	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
260	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
270	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
280	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
290	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
300	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
310	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
320	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
330	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
340	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
350	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
360	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
370	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
380	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
390	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
400	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
410	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
420	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
430	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
440	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"
450	7'-10"	20'	10'-11"	7'-5"	25'	9'-2"	7'-5"	25'	9'-2"	2'-9"

Table 7.1.6. Industry Standard Composite Roof Panels Allowable Spans and Design / Applied Loads* (#/SF)

3" x 48" x 0.024" Panels Aluminum Alloy 3105 H-14 or H-25 1.0 EPS Core Density Foam	Steel Structures	Scan Booms	Glass & Modular Rooms	Overhang
---	------------------	------------	-----------------------	----------

3' x 4' x 0.030" Panels Aluminum Alloy 3105 H-14 or H-25 L0 EPS Core Density Foam														
Open Structures				Screen Rooms & Attached Covers				Glass & Modular Rooms				Overhead Canopies		
Wind Zone	Mono-Sloped Roof			A & Attached Covers			Glass & Modular Rooms			Overhead Canopies				
	162 span/foot	3 span/foot	4 span/foot	162 span/foot	3 span/foot	4 span/foot	162 span/foot	3 span/foot	4 span/foot	162 span/foot	3 span/foot	4 span/foot	162 span/foot	3 span/foot
100	18-22	13	20-24	13	19-27	13	16-20	21	15-3	20	12-6	27	4-0	45
110	17-22	13	18-24	14	18-21	13	15-21	20	11-5	32	12-10	23	13-6	47
120	15-11	17	17-17	17	17-3	17	13-10	33	30	10-5	39	11-3	39	47-5
130	15-6	17	17-14	17	17-17	17	11-17	32	32	8-6	45	10-10	45	57
140-1	10-8	27	13-23	23	13-23	23	12-12	32	32	8-7	45	10-10	45	67
140-2	10-8	27	13-23	23	13-23	23	11-15	40	40	9-1	51	10-10	45	67
150	9-6	36	11-19	31	11-15	27	6-11	48	48	8-6	59	9-9	59	9-9
160	9-6	36	11-19	31	10-7	32	7-9	52	52	6-3	68	7-10	68	8-5
170	9-6	36	11-19	31	10-7	32	7-9	52	52	6-3	68	7-10	68	8-5

[illegible]

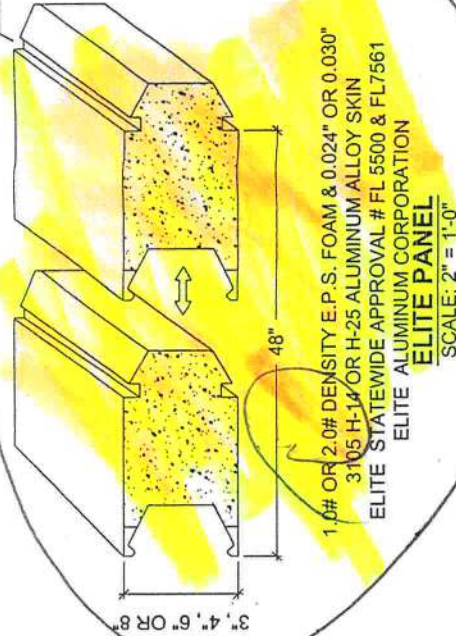
Wind (MPH)	Open Structures				Glass & Modular Rooms				Overhanging Canopies				
	Mono-Sloped Roof		& Attached Covers		183		Embossed		183		Embossed		
	183	span/roof	4	span/roof	183	span/roof	4	span/roof	183	span/roof	4	span/roof	
100	17-59	13	19-10	13	16-2	13	15-10	20	15-3	27	14-9	27	14-9
110	17-3	14	19-3	14	16-7	14	18-10	25	11-2	32	13-7	32	13-7
120	15-7	17	17-5	17	16-10	17	17-10	21	17-3	27	15-2	27	15-2
130	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
140-2	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
150	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
160	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
170	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
180	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
190	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
200	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
210	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
220	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
230	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
240	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
250	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
260	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
270	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
280	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
290	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
300	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
310	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
320	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
330	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
340	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
350	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
360	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
370	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
380	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
390	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
400	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
410	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
420	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
430	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
440	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
450	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
460	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
470	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
480	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
490	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
500	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
510	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
520	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
530	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
540	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
550	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
560	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
570	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
580	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
590	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
600	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
610	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
620	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
630	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
640	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
650	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
660	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
670	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
680	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
690	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
700	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
710	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
720	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
730	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
740	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
750	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
760	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
770	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
780	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
790	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
800	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
810	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
820	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
830	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
840	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
850	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
860	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
870	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
880	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
890	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
900	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
910	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
920	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
930	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
940	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
950	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
960	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
970	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
980	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
990	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2
1000	15-1	18	17-1	18	16-10	18	17-10	21	17-3	27	15-2	27	15-2

Note: Total roof panel width = room width + wall width + overhang. *Design or applied load based on the effective area of the panel

Note: Total roof panel width = room width + wall width + overhang. *Design or applied load based on the effective area of the panel

MANUFACTURERS PROPRIETARY PRODUCTS

SET WITH DEGASEL 2000 OR EQUAL
CHAUK AND OR ADHESIVE
ON TOP AND BOTTOM LOCK GROOVE



Note:
Below spans are based on test results from a
Florida approved test lab & analyzed by
Lawrence E. Bennett & L/180

Table 7.2.1 Elite Aluminum Corporation Roof Panels Allowable Spans and Design / Applied Loads* (#/SF)

3" x 48" x 0.024" Panels Aluminum Alloy 3105 H-14 or H-25 1.0 EPS Core Density Foam																						
Wind Open Structures Mono-Sloped Roof				Screen Rooms & Attached Covers				Glass & Modular Rooms Enclosed				Overhang Cantilever										
Zone	1&2	3	4	1&2	3	4	1&2	3	4	1&2	3	4	1&2	4								
(MPH)	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*								
100	18-10"	13	21-1"	13	20-5"	13	15-1"	20	16-10"	20	16-3"	23	12-11"	27	15-2"	23	4'-0"	45				
110	18-4"	14	20-5"	14	19-10"	14	13-5"	25	16-5"	21	15-1"	21	11-11"	32	13-4"	38	12-10"	32	4'-0"	55		
120	16-2"	17	18-7"	17	17-11"	17	12-4"	30	15-1"	25	13-3"	30	10-9"	38	12-1"	31	11-3"	39	4'-0"	65		
130	15-2"	17	18-1"	17	17-5"	17	12-0"	32	13-5"	32	12-11"	32	10-7"	41	11-10"	41	11-5"	41	4'-0"	77		
140-1	13-0"	15-3"	17	18-1"	20	16-5"	20	11-11"	40	11-11"	40	11-11"	40	9-5"	51	11-3"	45	10-10"	45	3'-10"	89	
140-2	12-11"	27	15-11"	23	15-4"	23	10-3"	40	11-11"	40	11-11"	40	11-11"	40	9-5"	50	10-4"	53	9-6"	59	3'-7"	89
150	12-0"	32	13-5"	32	12-11"	32	9-4"	52	11-11"	46	10-9"	68	8-10"	68	8-10"	68	8-10"	68	3'-4"	102		
3" x 48" x 0.030" Panels Aluminum Alloy 3105 H-14 or H-25 1.0 EPS Core Density Foam																						
Wind Open Structures Mono-Sloped Roof				Screen Rooms & Attached Covers				Glass & Modular Rooms Enclosed				Overhang Cantilever										
Zone	1&2	3	4	1&2	3	4	1&2	3	4	1&2	3	4	1&2	4								
(MPH)	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*								
100	18-10"	13	21-1"	13	20-5"	13	15-1"	20	16-10"	20	16-3"	23	12-11"	27	15-2"	23	4'-0"	45				
110	18-4"	14	20-5"	14	19-10"	14	13-5"	25	16-5"	21	15-1"	21	11-11"	32	13-4"	38	12-10"	32	4'-0"	55		
120	16-2"	17	18-7"	17	17-11"	17	12-4"	30	15-1"	25	13-3"	30	10-9"	38	12-1"	31	11-3"	39	4'-0"	65		
130	15-2"	17	18-1"	17	17-5"	17	12-0"	32	13-5"	32	12-11"	32	10-7"	41	11-10"	41	11-5"	41	4'-0"	77		
140-1	13-0"	15-3"	17	18-1"	20	16-5"	20	11-11"	40	11-11"	40	11-11"	40	9-5"	51	11-3"	45	10-10"	45	3'-10"	89	
140-2	12-11"	27	15-11"	23	15-4"	23	10-3"	40	11-11"	40	11-11"	40	11-11"	40	9-5"	50	10-4"	53	9-6"	59	3'-7"	89
150	12-0"	32	13-5"	32	12-11"	32	9-4"	52	11-11"	46	10-9"	68	8-10"	68	8-10"	68	8-10"	68	3'-4"	102		
4" x 48" x 0.024" Panels Aluminum Alloy 3105 H-14 or H-25 1.0 EPS Core Density Foam																						
Wind Open Structures Mono-Sloped Roof				Screen Rooms & Attached Covers				Glass & Modular Rooms Enclosed				Overhang Cantilever										
Zone	1&2	3	4	1&2	3	4	1&2	3	4	1&2	3	4	1&2	4								
(MPH)	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*								
100	20-8"	13	23-2"	13	22-4"	13	16-3"	20	17-10"	20	17-3"	23	16-3"	23	4'-0"	45						
110	20-1"	14	22-8"	14	21-8"	14	16-3"	21	18-0"	21	17-1"	27	15-2"	27	4'-0"	55						
120	18-2"	17	20-4"	17	19-8"	17	13-6"	30	16-2"	25	15-11"	39	12-11"	39	12-9"	39	4'-0"	65				
130	17-8"	17	19-10"	17	18-2"	17	13-2"	32	16-2"	28	11-7"	41	12-4"	41	12-6"	41	4'-0"	69				
140-1	16-0"	20	18-3"	20	18-1"	20	13-6"	35	15-4"	33	12-6"	45	12-4"	45	11-11"	45	4'-0"	77				
140-2	15-7"	23	17-5"	23	16-10"	23	11-8"	40	13-1"	40	12-8"	40	12-7"	40	11-11"	40	11-11"	40	3'-11"	89		
150	13-2"	26	19-11"	26	17-4"	26	11-11"	46	13-4"	46	12-7"	46	11-4"	60	11-11"	60	11-11"	60	3'-8"	102		
4" x 48" x 0.030" Panels Aluminum Alloy 3105 H-14 or H-25 1.0 EPS Core Density Foam																						
Wind Open Structures Mono-Sloped Roof				Screen Rooms & Attached Covers				Glass & Modular Rooms Enclosed				Overhang Cantilever										
Zone	1&2	3	4	1&2	3	4	1&2	3	4	1&2	3	4	1&2	4								
(MPH)	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*								
100	23-10"	13	25-5"	13	25-5"	13	19-1"	20	20-7"	20	17-9"	23	19-10"	23	4'-0"	45						
110	23-2"	14	25-1"	14	25-1"	14	18-7"	21	20-9"	21	18-5"	27	17-9"	27	4'-0"	55						
120	20-11"	17	23-5"	17	22-8"	17	16-8"	25	19-1"	25	18-5"	31	16-3"	32	4'-0"	65						
130	20-5"	17	22-10"	17	21-11"	17	16-8"	26	18-7"	26	18-7"	34	15-10"	34	4'-0"	69						
140-1	17-11"	23	20-1"	23	19-5"	23	13-5"	34	15-9"	34	15-9"	45	13-9"	45	4'-0"	77						
140-2	17-11"	23	20-1"	23	19-5"	23	13-5"	34	15-9"	34	15-9"	45	13-9"	45	4'-0"	77						
150	16-10"	26	18-10"	26	16-3"	26	12-7"	46	15-3"	39	13-7"	46	11-11"	60	3'-8"	102						

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

*Down or uprilled load based on the effective area of the panel.

Note: Total roof panel width = room width + wall width + overhang. *Design or applied load based on the effective area of the panel

Table 7.2.2 Elite Aluminum Corporation Roof Panels Allowable Spans and Design / Applied Loads* (#/SF)

Manufacturers' Proprietary Products: Slateloid Panel Approval FL1049														
3" x 48" x 0.024" Panels Aluminum Alloy 3105 H-14 or H-25 2.0 EPS Core Density Foam														
Wind Open Structures Mono-Sloped Roof				Screen Rooms & Attached Covers				Glass & Modular Rooms Enclosed				Overhang Cantilever		
Zone	1&2	3	4	1&2	3	4	1&2	3	4	1&2	3	4	Overhang Cantilever	
(MPH)	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*		
100	20-8"	13	23-1"	13	18-5"	20	19-5"	20	17-10"	20	15-5"	23	16-7"	23
110	20-1"	14	22-5"	14	16-11"	21	19-5"	21	17-5"	21	13-1"	32	15-11"	27
120	18-2"	17	20-4"	17	15-5"	30	18-5"	25	15-11"	25	11-10"	33	12-4"	39
130	16-2"	17	19-5"	17	13-2"	32	16-1"	26	13-7"	26	11-7"	42	12-11"	41
140-1	12-11"	27	15-11"	23	12-3"	35	15-4"	35	11-10"	42	12-4"	45	11-11"	48
140-2	12-11"	27	15-11"	23	12-3"	35	15-4"	35	11-10"	42	12-4"	45	11-11"	48
150	13-2"	32	16-4"	28	10-3"	40	13-1"	40	12-7"	40	9-4"	59	10-11"	60
3" x 48" x 0.030" Panels Aluminum Alloy 3105 H-14 or H-25 2.0 EPS Core Density Foam														
Wind Open Structures Mono-Sloped Roof				Screen Rooms & Attached Covers				Glass & Modular Rooms Enclosed				Overhang Cantilever		
Zone	1&2	3	4	1&2	3	4	1&2	3	4	1&2	3	4	Overhang Cantilever	
(MPH)	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*		
100	24-3"	13	27-1"	13	18-4"	21	21-8"	21	20-5"	21	16-8"	23	16-9"	23
110	23-7"	14	26-5"	14	18-11"	21	21-2"	21	20-5"	21	16-8"	27	18-0"	27
120	21-4"	17	23-10"	17	17-4"	25	19-4"	25	18-3"	25	15-4"	32	17-1"	32
130	20-9"	17	22-5"	17	16-11"	26	18-11"	26	16-3"	26	13-7"	41	16-8"	34
140-1	18-7"	20	21-11"	20	16-1"	29	17-11"	29	17-4"	29	12-11"	45	15-8"	38
140-2	18-7"	20	21-11"	20	16-1"	29	17-11"	29	17-4"	29	12-11"	45	15-8"	38
150	15-3"	26	19-5"	23	13-5"	40	16-7"	34	16-1"	34	11-11"	53	13-2"	48
140-2	15-3"	26	19-5"	23	13-5"	40	16-7"	34	16-1"	34	11-11"	53	13-2"	48
150	17-2"	26	19-2"	26	12-9"	46	15-6"	39	13-1"	46	11-11"	60	12-1"	51
4" x 48" x 0.024" Panels Aluminum Alloy 3105 H-14 or H-25 2.0 EPS Core Density Foam														
Wind Open Structures Mono-Sloped Roof				Screen Rooms & Attached Covers				Glass & Modular Rooms Enclosed				Overhang Cantilever		
Zone	1&2	3	4	1&2	3	4	1&2	3	4	1&2	3	4	Overhang Cantilever	
(MPH)	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*		
100	22-8"	13	25-4"	13	18-1"	20	20-3"	20	19-7"	20	16-11"	23	16-5"	23
110	22-4"	14	24-8"	14	17-8"	21	19-9"	21	19-9"	21	15-7"	27	16-3"	27
120	19-11"	17	22-3"	17	16-2"	23	18-1"	25	18-1"	25	12-4"	33	13-5"	33
130	18-3"	17	21-0"	17	15-10"	26	18-1"	26	18-1"	26	12-4"	38	14-6"	33
140-1	17-11"	23	19-1"	23	12-0"	32	16-0"	32	16-3"	32	12-1"	41	15-1"	34
140-2	17-11"	23	19-1"	23	12-0"	32	16-0"	32	16-3"	32	12-1"	41	15-1"	34
150	16-11"	23	18-5"	23	12-2"	40	15-5"	34	15-0"	34	11-11"	53	13-0"	45
140-2	16-11"	23	18-5"	23	12-2"	40	15-5"	34	15-0"	34	11-11"	53	13-0"	45
150	16-2"	26	17-11"	26	17-4"	26	13-4"	46	12-11"	46	10-5"	60	11-4"	60
4" x 48" x 0.030" Panels Aluminum Alloy 3105 H-14 or H-25 2.0 EPS Core Density Foam														
Wind Open Structures Mono-Sloped Roof				Screen Rooms & Attached Covers				Glass & Modular Rooms Enclosed				Overhang Cantilever		
Zone	1&2	3	4	1&2	3	4	1&2	3	4	1&2	3	4	Overhang Cantilever	
(MPH)	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*	span/foot*		
100	26-2"	13	29-3"	13	20-10"	20	23-4"	20	22-7"	20	19-6"	23	21-9"	23
110	25-5"	14	28-5"	14	20-4"	21	22-9"	21	22-9"	21	17-11"	27	19-5"	27
120	22-11"	17	25-8"	17	17-4"	25	20-5"	25	20-5"	25	16-6"	32	17-10"	32
130	21-2"	17	25-0"	17	17-3"	26	20-5"	26	19-8"	26	16-1"	34	17-4"	34
140-1	19-8"	20	23-3"	20	22-2"	20	17-4"	29	19-9"	29	15-2"	38	16-11"	38
140-2	19-8"	20	23-3"	20	22-2"	20	17-4"	29	19-9"	29	15-2"	38	16-11"	38
150	18-6"	26	20-8"	26	19-11"	26	13-5"	46	16-8"	39	12-1"	60	13-10"	60

Note: Total roof panel width = room width + wall width + overhang. *Sign or applied load based on the effective area of the panel.

Note: Total roof panel width = room width + wall width + overhang. *Design or applied load based on the effective area of the panel

ALUMINUM STRUCTURES DESIGN MANUAL
SCREEN, ACRYLIC & VINYL ROOMS
ELITE - SOLID ROOF PANEL PRODUCTS

2007 FLORIDA BUILDING CODE (2009 SUPPLEMENTS) - 2010 EDITION

Down E Country
INDUSTRIES, INC.
Wholesale Aluminum Distributors

400 W. McNab Road, Fort Lauderdale, Florida 33309
PHONE: (954) 970-8999 FAX: (954) 972-1338

Lawrence E. Bennett, P.E. FL # 16644
CIVIL & STRUCTURAL ENGINEERING
P.O. Box 290036, Port Orange, FL 32129
Telephone #: (386) 767-4774 Fax #: (386) 767-6556
http://www.lebpe.com/

SHEET

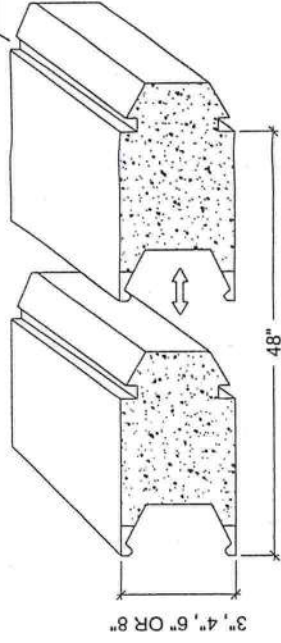
10G

12

08-12-2010

RAISED SEAL

SET WITH DEGASEL 2000 OR EQUAL
CHAULK AND OR ADHESIVE
ON TOP AND BOTTOM LOCK GROOVE



Note:
Below spans are based on test results from a
Florida approved test lab & analyzed by
Lawrence E. Bennett & L/180

Manufacturers' Proprietary Products: Statewide Product Approval #FL1049

6" x 48" x 0.024" Panels Aluminum Alloy 3105 H-14 or H-25 1.0 EPS Core Density Foam

6" x 48" x 0.024" Panels Aluminum Alloy 3105 H-14 or H-25 L0 EPS Core Density Foam																				
Zone	Over Structures Mono-Sloped Roof				Structural Rooms & Attached Covers				Glass & Modular Rooms Enclosed				Overhang Cantilever							
	182	3	3	4	182	3	3	4	182	3	3	4								
(MPH)	span/12'	span/13'	span/14'	span/15'	span/12'	span/13'	span/14'	span/15'	span/12'	span/13'	span/14'	span/15'								
110	25-9'	13	28-9'	13	27-10'	13	27-7"	20	22-11'	20	22-2"	20	19-2'	23	21-5'	23	20-8'	23	4-0"	45
110	25-9'	14	27-11'	14	27-10'	14	27-10'	20	22-5'	21	22-5'	21	17-8"	27	19-17'	27	19-17'	27	4-0"	45
120	22-9'	17	24-2"	17	23-10'	17	23-10'	20	18-5'	25	20-1'	25	15-10'	32	16-3'	32	16-3'	32	4-0"	65
123	22-9'	17	24-2"	17	23-10'	17	23-10'	20	18-5'	26	20-1'	26	15-10'	34	17-8'	34	17-8'	34	4-0"	69
130	20-10'	20	23-3'	20	22-6'	20	22-6'	23	19-1'	29	19-1'	29	13-8'	45	16-8'	38	16-1'	38	4-0"	77
140-1	19-4"	23	21-8'	23	20-11'	23	20-11'	34	17-7'	34	17-7'	34	13-5'	48	16-8'	38	16-1'	38	4-0"	77
140-2	19-4"	23	21-8'	23	20-11'	23	20-11'	34	17-7'	34	17-7'	34	12-7'	53	16-8'	38	16-1'	38	4-0"	89
150	18-2"	26	20-7'	26	19-9'	26	19-9'	39	15-11'	39	15-11'	39	11-10'	60	13-3'	60	12-10'	60	4-0"	102
6" x 48" x 0.030" Panels Aluminum Alloy 3105 H-14 or H-25 L0 EPS Core Density Foam																				
Zone	Over Structures Mono-Sloped Roof				Structural Rooms & Attached Covers				Glass & Modular Rooms Enclosed				Overhang Cantilever							
(MPH)	182	3	3	4	182	3	3	4	182	3	3	4								
110	25-9'	13	33-2"	13	32-1"	13	32-2"	20	25-6'	20	25-7"	20	22-1"	23	21-5'	23	22-10'	23	4-0"	45
110	25-10'	14	33-3"	14	31-2"	14	31-2"	21	25-10'	21	24-11'	21	20-5'	27	22-10'	27	22-10'	27	4-0"	45
120	26-1"	17	29-5'	17	28-2"	17	28-2"	25	23-5'	25	22-2"	25	18-9'	32	20-11'	32	20-3'	32	4-0"	65
123	25-5'	17	29-5'	17	27-5'	17	27-5'	20	23-5'	26	22-4"	26	18-3'	34	19-8'	34	19-8'	34	4-0"	69
130	23-11'	20	26-10'	20	25-11'	20	25-11'	23	19-8'	29	20-0'	29	17-2'	38	19-3'	38	18-7'	38	4-0"	77
140-1	22-4"	23	24-11'	23	24-11'	23	24-11'	34	20-4'	34	20-4'	34	19-8'	34	17-2'	38	19-3'	38	4-0"	77
140-2	22-4"	23	24-11'	23	24-11'	23	24-11'	34	20-4'	34	20-4'	34	15-11'	44	17-10'	44	17-3'	44	4-0"	89
150	20-11'	26	23-5'	26	22-8'	26	22-8'	39	18-11'	39	18-8'	39	13-8'	60	16-7'	60	15-10'	60	4-0"	102
8" x 48" x 0.024" Panels Aluminum Alloy 3105 H-14 or H-25 L0 EPS Core Density Foam																				
Zone	Over Structures Mono-Sloped Roof				Structural Rooms & Attached Covers				Glass & Modular Rooms Enclosed				Overhang Cantilever							
(MPH)	182	3	3	4	182	3	3	4	182	3	3	4								
110	25-11'	13	32-5'	13	32-5'	13	32-5'	20	25-9'	20	25-11'	20	22-4"	23	24-11'	23	24-2"	23	4-0"	45
110	25-9'	14	33-3"	14	31-6"	14	31-6"	21	25-9'	21	25-3"	21	20-7'	27	22-11'	27	22-3"	27	4-0"	45
120	26-4"	17	29-8'	17	27-8'	17	27-8'	25	23-11'	25	22-3"	25	18-11'	32	21-2'	32	20-5'	32	4-0"	65
123	25-6'	17	29-8'	17	27-8'	17	27-8'	25	23-11'	26	22-2"	26	18-11'	34	20-7'	34	19-11'	34	4-0"	69
130	20-10'	20	23-3'	20	22-6'	20	22-6'	23	19-1'	29	19-1'	29	17-5'	38	19-5'	38	18-9'	38	4-0"	77
140-1	22-7"	23	23-3'	23	24-5'	23	24-5'	34	20-6'	34	20-6'	34	17-5'	38	19-5'	38	18-9'	38	4-0"	77
140-2	22-7"	23	23-3'	23	24-5'	23	24-5'	34	20-6'	34	20-6'	34	16-2'	44	18-1'	44	17-5'	44	4-0"	89
150	21-3'	26	23-5'	26	22-11'	26	22-11'	39	19-2'	39	19-2'	39	13-10'	60	16-9'	60	15-10'	60	4-0"	102
8" x 48" x 0.030" Panels Aluminum Alloy 3105 H-14 or H-25 L0 EPS Core Density Foam																				
Zone	Over Structures Mono-Sloped Roof				Structural Rooms & Attached Covers				Glass & Modular Rooms Enclosed				Overhang Cantilever							
(MPH)	182	3	3	4	182	3	3	4	182	3	3	4								
110	24-7"	13	38-5'	13	37-5'	13	37-5'	20	30-11'	20	29-10'	20	25-9'	23	28-10'	23	27-10'	23	4-0"	45
110	33-6"	14	37-7"	14	36-4"	14	36-4"	21	30-9'	21	29-9'	21	23-9'	27	26-7"	27	25-8"	27	4-0"	45
120	30-5'	17	34-0'	17	32-0'	17	32-0'	25	27-8'	25	26-8'	25	21-10'	32	24-3'	32	23-7"	32	4-0"	65
123	29-7"	17	33-1"	17	32-0'	17	32-0'	25	27-8'	26	26-11'	26	21-3'	34	23-6'	34	22-11'	34	4-0"	69
130	27-11'	20	31-3'	20	30-3'	20	30-3'	23	25-11'	29	25-8'	29	20-1'	38	22-5'	38	21-8'	38	4-0"	77
140-1	26-11'	23	29-1'	23	28-2'	23	28-2'	34	22-12'	34	22-11'	34	20-1'	38	22-5'	38	21-8'	38	4-0"	77
140-2	26-11'	23	29-1'	23	28-2'	23	28-2'	34	22-12'	34	22-11'	34	18-8'	44	20-10'	44	20-1'	44	4-0"	89
150	24-5'	26	28-1'	26	28-5'	26	28-5'	39	22-11'	39	22-11'	39	17-4'	51	19-4'	51	18-4'	51	4-0"	102

Note: Total roof panel width = room width + wall width + overhang. *Design or applied load based on the affective area of the panel

Manufacturers' Proprietary Products: Statewide Product Approval #FL1049

Wind	Open Structures	Mono-Sloped Roof	Screen Rooms & Attached Covers
6" x 48" x 0.024" Panels Aluminum Alloy 3105 H-14 or H-25 2.0 EPS Core Density Foam			

6" x 48" x 0.024" Panels Aluminum Alloy 3105 H-14 or H-25 to 20 EPS Core Density Foam																		
Zone	1&2			3			4			Glass & Modular Rooms Enclosed			Overhang					
	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)							
110	28-2	13	31-6	13	30-5	13	22-6	20	25-2	20	24-1	20	23-6	23	22-8	23	4-3	45
110	27-5	14	30-8	14	29-7	14	21-11	21	24-7	21	23-9	21	19-4	21	21-11	21	4-3	45
120	24-9	17	26-11	17	25-11	17	20-2	25	22-6	25	17-10	32	19-11	32	19-3	32	4-3	45
123	24-2	17	26-11	17	26-5	17	19-8	26	21-11	26	21-3	26	17-4	34	19-4	34	4-3	45
130	22-0	20	25-6	20	24-8	20	18-8	29	20-11	29	20-2	29	16-4	38	17-3	38	4-3	45
140-1	21-3	23	23-3	23	22-11	23	17-3	34	19-4	34	18-8	34	16-4	38	17-3	38	4-3	45
140-2	21-3	23	23-3	23	22-11	23	17-3	34	19-4	34	18-8	34	15-2	44	16-11	44	4-3	45
150	19-11	26	22-6	26	21-6	26	16-1	39	18-0	39	17-5	39	12-11	60	15-9	61	4-3	45
6" x 48" x 0.030" Panels Aluminum Alloy 3105 H-14 or H-25 to 20 EPS Core Density Foam																		
Zone	1&2			3			4			Glass & Modular Rooms Enclosed			Overhang					
	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)						
110	32-6	13	36-4	13	35-2	13	25-11	20	29-0	20	28-1	20	24-2	23	21-7	23	4-3	45
110	31-7	14	35-4	14	34-2	14	25-4	21	28-4	21	28-1	21	22-4	27	24-11	27	4-3	45
120	28-7	17	31-11	17	30-11	17	23-3	25	25-11	25	25-1	26	20-8	32	22-11	32	4-3	45
123	27-0	17	31-11	17	30-11	17	22-8	26	25-6	26	24-5	26	19-11	34	22-4	34	4-3	45
130	26-3	20	29-5	20	28-5	20	21-7	29	24-1	29	23-6	29	16-10	38	21-1	38	4-3	45
140-1	24-6	23	27-4	23	26-5	23	19-11	34	22-3	34	21-6	34	16-10	38	21-1	38	4-3	45
140-2	24-6	23	27-4	23	26-5	23	19-11	34	22-3	34	21-6	34	16-10	38	21-1	38	4-3	45
150	22-11	28	25-8	28	24-10	28	16-7	39	20-3	39	20-1	39	17-5	51	19-2	51	4-3	45
8" x 48" x 0.024" Panels Aluminum Alloy 3105 H-14 or H-25 to 20 EPS Core Density Foam																		
Zone	1&2			3			4			Glass & Modular Rooms Enclosed			Overhang					
	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)						
110	34-7	13	38-8	13	37-5	13	27-8	20	30-11	20	29-9	20	25-9	23	28-10	23	4-3	45
110	33-8	14	37-7	14	36-4	14	26-11	21	30-2	21	29-2	21	23-9	27	26-7	27	4-3	45
120	30-5	17	34-0	17	32-10	17	24-9	25	26-8	25	26-11	26	21-10	32	24-5	32	4-3	45
123	29-7	17	33-0	17	32-0	17	24-2	26	26-11	26	26-1	26	21-3	34	23-9	34	4-3	45
130	27-11	20	31-3	20	30-3	20	22-11	29	25-5	29	24-9	29	20-1	38	22-5	38	4-3	45
140-1	26-1	23	29-1	23	28-2	23	21-2	34	22-11	34	22-1	34	20-4	38	21-8	38	4-3	45
140-2	26-1	23	29-1	23	28-2	23	21-2	34	22-11	34	22-1	34	18-8	44	20-10	44	4-3	45
150	24-6	26	27-4	26	26-5	26	19-9	39	22-1	39	21-1	39	17-4	51	19-4	51	4-3	45
8" x 48" x 0.030" Panels Aluminum Alloy 3105 H-14 or H-25 to 20 EPS Core Density Foam																		
Zone	1&2			3			4			Glass & Modular Rooms Enclosed			Overhang					
	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)	spanload* (MPH)						
110	37-11	13	42-5	13	40-11	13	30-3	20	33-10	20	32-8	20	28-3	23	31-7	23	4-3	38
110	36-11	14	41-2	14	39-10	14	29-6	21	33-0	21	31-11	21	26-1	27	29-1	27	4-3	38
120	33-4	17	37-3	17	36-0	17	27-1	25	30-7	25	29-3	25	23-11	32	26-5	32	4-3	38
123	32-5	17	36-3	17	35-1	17	26-5	26	29-7	26	28-6	26	23-3	34	26-0	34	4-3	38
130	30-8	20	34-3	20	33-1	20	25-2	29	28-1	29	27-2	29	21-11	38	23-9	38	4-3	38
140-1	28-6	23	31-11	23	30-10	23	23-3	34	25-11	34	25-1	34	21-11	38	24-7	38	4-3	38
140-2	28-6	23	31-11	23	30-10	23	23-3	34	25-11	34	25-1	34	20-5	44	22-10	44	4-3	38
150	26-10	26	29-11	26	28-11	26	21-8	38	24-5	38	23-5	38	18-11	51	21-2	51	4-3	38

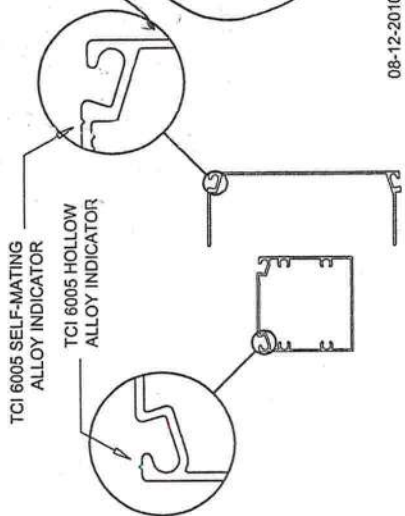
Note: Total roof panel width = room width + wall width + overhang.

Town & Country 6005 Indicator Mark
(Instructions For Permit Purchases)

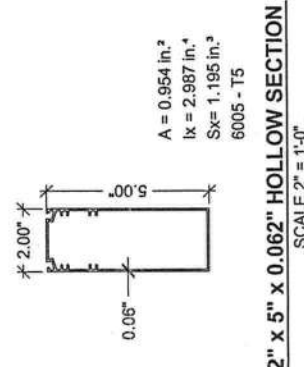
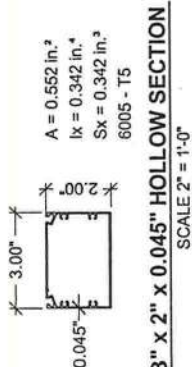
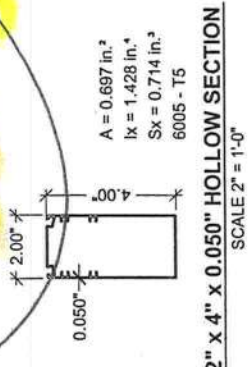
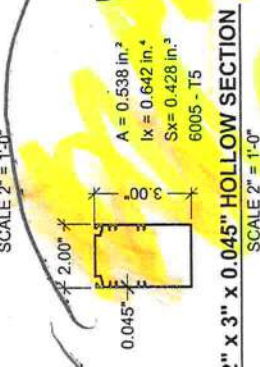
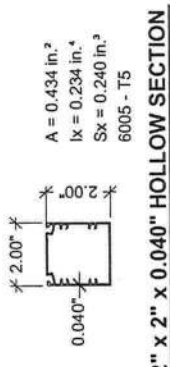
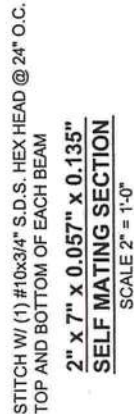
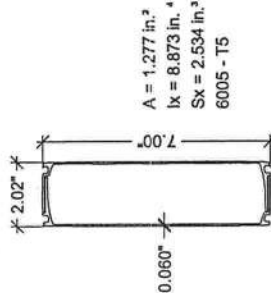
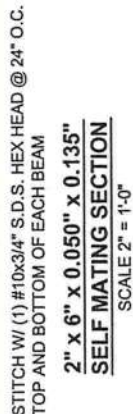
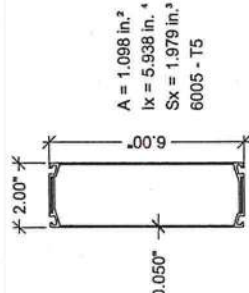
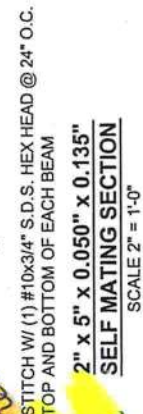
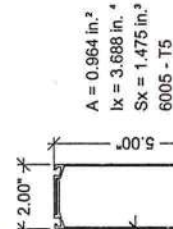
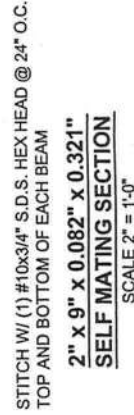
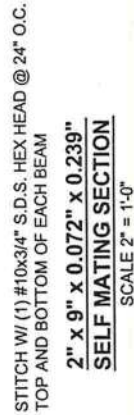
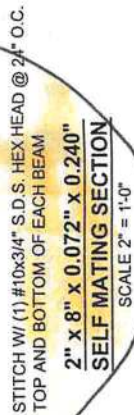
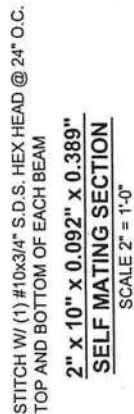
To: Plans Examiners and Building Inspectors,

These alloy identification marks have been provided to contractors and yourself for permitting purposes. The details below illustrate the alloy identification marks and the location of such marks. These alloy marks are used solely for our 6005 extrusions. It is ultimately the contractors responsibility that they receive and use only the 6005 alloy shapes when using this engineering. We are providing this document to simplify the identification of our 6005 alloy materials to be used in conjunction with our 6005 engineering.

A separate signed and sealed document from Town & Country will be provided to our pre-approved contractors once the materials are purchased.



12



GENERAL NOTES AND SPECIFICATIONS:

- The Fastener tables were developed from data for anchors that are considered to be "Industry Standard". The allowable loads are based on data from catalogs from POWERS FASTENING, INC. (RAWL PRODUCTS), other anchor suppliers, and design criteria and reports from the American Forest and Paper Products and the American Plywood Association.
- Unless otherwise noted, the following minimum properties of materials were used in calculating allowed loadings:
 - Aluminum:
 - Sheet, 3105 H-14 or H-25 alloy
 - Extrusions, 6063 T-6 alloy
 - Concrete, $F_c = 2,500 \text{ psi}$ @ 28 days
 - Steel, Grade D Fy / c = 33.0 ksi
 - Wood:
 - Framing Lumber #2 S.P.F. minimum
 - Sheathing, 1/2" 4 ply CDX or 7/16" OSB
- 120 MPH wind load was used for all allowable area calculations.
- For high velocity hurricane zones the minimum live load / applied load shall be 30 PSF.
- Spans may be interpolated between values but not extrapolated outside values.
- Aluminum metals that will come in contact with ferrous metal surfaces or concrete/masonry products or pressure treated wood shall be coated w/ two coats of aluminum metal-and-masonry paint or a coat of heavy-bodied bituminous paint, or the wood or other absorbing material shall be painted with two coats of aluminum house paint and the joints sealed with a good quality caulking compound. The protective materials shall be as listed in section 2003.8.4.3 through 2003.8.4.6 of the Florida Building Code or Corobond Cold Galvanizing Primer and Finisher.
- All fasteners or aluminum parts shall be corrosion resistant such as non magnetic stainless steel grade 304 or 316; Ceramic coated, double zinc coated or powder coated steel fasteners. Only fasteners that are warranted as corrosion resistant shall be used; Unprotected steel fasteners shall not be used.
- Any structure within 1500 feet of a salt water area; bay or ocean) shall have fasteners made of non-magnetic stainless steel 304 or 316 series. 410 series has not been approved for use with aluminum by the Aluminum Association and should not be used.
- Any project covering a pool with a salt water chlorination disinfection system shall use the above recommended fasteners. This is not limited to base anchoring systems but includes all connection types.

SECTION 9 DESIGN STATEMENT:

The anchor systems in the Fastener section are designed for a 130 MPH wind load. Multipliers for other wind zones have been provided. Allowable loads include a 133% wind load increase as provided for in The 2007 Florida Building Code with 2009 Supplements. The use of this multiplier is only allowed once and I have selected anchoring systems which include strapping, nails and other fasteners.

Table 9.4 Maximum Allowable Fastener Loads for SAE Grade 5 Steel Fasteners Into 6005 T-5 Alloy Aluminum Framing (As Recommended by Manufacturers)

Screw/Bolt		Allowable Tensile Loads on Screws for Nominal Wall Thickness (T) (lbs.)		Allowable Shear Loads on Screws for Nominal Wall Thickness (T) (lbs.)	
Size	Nd	0.055"	0.072"	0.055"	0.072"
#8	0.164"	122	139	153	200
#10	0.190"	141	161	177	231
#12	0.210"	156	178	196	256
#14	0.250"	185	212	232	305
#16	0.250"	179	203	223	292
#18	0.250"	179	203	223	292
#20	0.3125"	232	265	291	381
#22	0.3125"	278	317	349	457
#24	0.3125"	317	363	405	520
#26	0.3125"	373	423	465	606
#28	0.3125"	423	485	520	683
#30	0.3125"	485	550	595	779
#32	0.3125"	550	625	683	896
#34	0.3125"	625	712	779	1015
#36	0.3125"	712	800	896	1170
#38	0.3125"	800	896	1015	1332
#40	0.3125"	896	1015	1170	1494
#42	0.3125"	1015	1170	1332	1656
#44	0.3125"	1170	1332	1494	1818
#46	0.3125"	1332	1494	1656	1980
#48	0.3125"	1494	1656	1818	2142
#50	0.3125"	1656	1818	1980	2304
#52	0.3125"	1818	1980	2142	2466
#54	0.3125"	1980	2142	2304	2628
#56	0.3125"	2142	2304	2466	2790
#58	0.3125"	2304	2466	2628	2952
#60	0.3125"	2466	2628	2790	3114
#62	0.3125"	2628	2790	2952	3276
#64	0.3125"	2790	2952	3114	3438
#66	0.3125"	2952	3114	3276	3600
#68	0.3125"	3114	3276	3438	3762
#70	0.3125"	3276	3438	3600	3924
#72	0.3125"	3438	3600	3762	4086
#74	0.3125"	3600	3762	3924	4248
#76	0.3125"	3762	3924	4086	4410
#78	0.3125"	3924	4086	4248	4572
#80	0.3125"	4086	4248	4410	4734
#82	0.3125"	4248	4410	4572	4896
#84	0.3125"	4410	4572	4734	5058
#86	0.3125"	4572	4734	4896	5220
#88	0.3125"	4734	4896	5058	5382
#90	0.3125"	4896	5058	5220	5544
#92	0.3125"	5058	5220	5382	5706
#94	0.3125"	5220	5382	5544	5868
#96	0.3125"	5382	5544	5706	6030
#98	0.3125"	5544	5706	5868	6192
#100	0.3125"	5706	5868	6030	6354
#102	0.3125"	5868	6030	6192	6516
#104	0.3125"	6030	6192	6354	6678
#106	0.3125"	6192	6354	6516	6840
#108	0.3125"	6354	6516	6678	7002
#110	0.3125"	6516	6678	6840	7164
#112	0.3125"	6678	6840	7002	7326
#114	0.3125"	6840	7002	7164	7488
#116	0.3125"	7002	7164	7326	7650
#118	0.3125"	7164	7326	7488	7812
#120	0.3125"	7326	7488	7650	7974
#122	0.3125"	7488	7650	7812	8136
#124	0.3125"	7650	7812	7974	8298
#126	0.3125"	7812	7974	8136	8460
#128	0.3125"	7974	8136	8298	8622
#130	0.3125"	8136	8298	8460	8784
#132	0.3125"	8298	8460	8622	8946
#134	0.3125"	8460	8622	8784	9108
#136	0.3125"	8622	8784	8946	9270
#138	0.3125"	8784	8946	9108	9432
#140	0.3125"	8946	9108	9270	9594
#142	0.3125"	9108	9270	9432	9756
#144	0.3125"	9270	9432	9594	9918
#146	0.3125"	9432	9594	9756	10080
#148	0.3125"	9594	9756	9918	10242
#150	0.3125"	9756	9918	10080	10404
#152	0.3125"	9918	10080	10242	10566
#154	0.3125"	10080	10242	10404	10728
#156	0.3125"	10242	10404	10566	10890
#158	0.3125"	10404	10566	10728	11052
#160	0.3125"	10566	10728	10890	11214
#162	0.3125"	10728	10890	11052	11376
#164	0.3125"	10890	11052	11214	11538
#166	0.3125"	11052	11214	11376	11700
#168	0.3125"	11214	11376	11538	11862
#170	0.3125"	11376	11538	11700	12024
#172	0.3125"	11538	11700	11862	12186
#174	0.3125"	11700	11862	12024	12348
#176	0.3125"	11862	12024	12186	12510
#178	0.3125"	12024	12186	12348	12672
#180	0.3125"	12186	12348	12510	12834
#182	0.3125"	12348	12510	12672	13000
#184	0.3125"	12510	12672	12834	13162
#186	0.3125"	12672	12834	13000	13324
#188	0.3125"	12834	13000	13162	13486
#190	0.3125"	13000	13162	13324	13648
#192	0.3125"	13162	13324	13486	13810
#194	0.3125"	13324	13486	13648	13972
#196	0.3125"	13486	13648	13810	14134
#198	0.3125"	13648	13810	14134	14296
#200	0.3125"	13810	14134	14296	14458
#202	0.3125"	14134	14296	14458	14620
#204	0.3125"	14296	14458	14620	14782
#206	0.3125"	14458	14620	14782	14944
#208	0.3125"	14620	14782	14944	15106
#210	0.3125"	14782	14944	15106	15268
#212	0.3125"	14944	15106	15268	15430
#214	0.3125"	15106	15268	15430	15592
#216	0.3125"	15268	15430	15592	15754
#218	0.3125"	15430	15592	15754	15916
#220	0.3125"	15592	15754	15916	16078
#222	0.3125"	15754	15916	16078	16240
#224	0.3125"	15916	16078	16240	16402
#226	0.3125"	16078	16240	16402	16564
#228	0.3125"	16240	16402	16564	16726
#230	0.3125"	16402	16564	16726	16888
#232	0.3125"	16564	16726	16888	17050
#234	0.3125"	16726	16888	17050	17212
#236	0.3125"	16888	17050	17212	17374
#238	0.3125"	17050	17212	17374	17536
#240	0.3125"	17212	17374	17536	17698
#242	0.3125"	17374	17536	17698	17860
#244	0.3125"	17536	17698	17860	18022
#246	0.3125"	17698	17860	18022	18184
#248	0.3125"	17860	18022	18184	18346
#250	0.3125"	18022	18184	18346	18508
#252	0.3125"	18184	18346	18508	18670
#254	0.3125"	18346	18508	18670	18832
#256	0.3125"	18508	18670	18832	18994
#258	0.3125"	18670	18832	18994	19156
#260	0.3125"	18832	18994	19156	19318
#262	0.3125"	18994	19156	19318	19480
#264	0.3125"	19156	19318	19480	19642
#266	0.3125"	19318	19480	19642	19804
#268	0.3125"	19480	19642	19804	19966
#270	0.3125"	19642	19804	19966	20128
#272	0.3125"	19804	19966	20128	20290
#274	0.3125"	19966	20128	20290	20452
#276	0.3125"	20128	20290	20452	20614
#278	0.3125"	20290	20452	20614	20776
#280	0.3125"	20452	20614	20776	20938
#282	0.3125"	20614	20776	20938	21100
#284	0.3125"	20776	20938	21100	21262
#286	0.3125"	20938	21100	21262	21424
#288	0.3125"	21100	21262	21424	21586
#290	0.3125"	21262	21424	21586	21748
#292	0.3125"	21424	21586	21748	21910
#294	0.3125"	21586	21748	21910	22072
#296	0.3125"	21748	21910	22072	22234
#298	0.3125"	21910	22072	22234	22396
#300	0.3125"	22072	22234	22396	22558
#302	0.3125"	22234	22396	22558	22720
#304	0.3125"	22396	22558	22720	22882
#306	0.3125"	22558	22720	22882	23044
#308	0.3125"	22720	22882	23044	23206
#310	0.3125"	22882	23044	23206	23368
#312	0.3125"	23044	23206	23368	23530
#314	0.3125"	23206	23368	23530	23692
#316	0.3125"	23368	23530	23692	23854
#318	0.3125"	23530	23692	23854	24016
#320	0.3125"	23692	23854	24016	24178
#322	0.3125"	23854	24016	24178	24340
#324	0.3125"	24016	24178	24340	24502
#326	0.3125"	24178	24340	24502	24664
#328	0.3125"	24340	24502	24664	24826
#330	0.3125"	24502	24664	24826	25000
#332	0.3125"	24664	24826	25000	25162
#334	0.3125"	24826	25000	25162	25324
#336	0.3125"	25000	25162	25324	25486
#338	0.3125"	25162	25324	25486	25648
#340	0.3125"	25324	25486	25648	25810
#342	0.3125"	25486	25648	25810	25972
#344	0.3125"	25648	25810	25972	26134
#346	0.3125"	25810	25972	26134	26296
#348	0.3125"	25972	26134	26296	26458
#350	0.3125"	26134	26296	26458	26620
#352	0.3125"	26296	26458	26620	26782
#354	0.3125"	26458	26620	26782	26944
#356	0.3125"	26620	26782	26944	27106
#358	0.3125"	26782	26944	27106	27268
#360	0.3125"	26944	27106	27268	27430
#362	0.3125"	27106	27268	27430	27592
#364	0.3125"	27268	27430	27592	27754
#366	0.3125"	27430	27592	27754	27916
#368	0.3125"	27592	27754	27916	28078
#370	0.3125"	27754	27916	28078	28240
#372	0.3125"	27916	28078	28240	28402
#374	0.3125"	28078	28240	28402	28564
#376	0.3125"	28240	28402	28564	28726