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ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID:1UW8215-Z0314160140



Truss Fabricator: **W.B. Howland**
Job Identification: **8191-/BILL HARPER 24X26 CARPORT /Contractor -- COLUMBIA CITY, FL**
Truss Count: **2**
Model Code: **Florida Building Code 2010**
Truss Criteria: **FBC2010Res/TPI-2007(STD)**
Engineering Software: **Alpine Software, Version 12.03.**
Structural Engineer of Record: **The identity of the structural EOR did not exist as of the seal date per section 61G15-31.003(5a) of the FAC**
Address:
Minimum Design Loads: **Roof - 40.0 PSF @ 1.25 Duration**
Floor - N/A
Wind - 130 MPH ASCE 7-10 -Open Obstructed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

William H. Krick
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

Details: 14015EC1-GBLLETIN-

#	Ref	Description	Drawing#	Date
1	49484--A		13134047	05/14/13
2	49485--A1		13134048	05/14/13

ALPINE



Wind loads and reactions based on MMFRS with additional C&C member design.



Haines City, FL 33844
FL COA #0278

05/14/2013

TC LL	20.0 PSF	REF R215-- 49484
TC DL	10.0 PSF	DATE 05/14/13
BC DL	10.0 PSF	DRW HCUR215 13134047
BC LL	0.0 PSF	HC-ENG WHK/WHK
TOT.LD.	40.0 PSF	SEQN- 206623
DUR.FAC.	1.25	FROM CDM
SPACING	24.0"	JREF- 1UW8215_Z03

Top chord 2x4 SP #2 N 12A
Bot chord 2x4 SP #2 N 12A
Webs 2x4 SP #2 N 12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

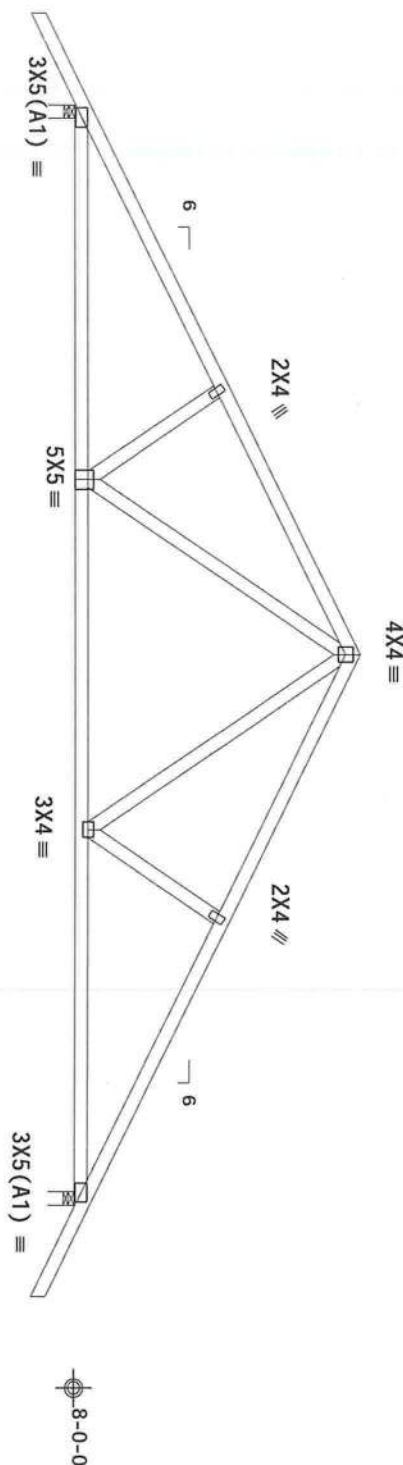
The overall height of this truss excluding overhang is 6-4-3.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, OPEN OBST. bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, Gcpl(+/-)=0.00

Wind loads and reactions based on MMFRS with additional C&C member design.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



12'-0-0" 24'-0-0 Over 2 Supports 12'-0-0"
R=1140 U=257 W=3.5" (3.5" min.)
RL=200/-200
R=1141 U=257 W=3.5" (3.5" min.)

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(SB)
FT/RT=20%(0%)/10(0)

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET.
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

IMPORTANT Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Trusses are designed for specific loads and conditions. Trusses shall be installed in accordance with the manufacturer's instructions. Trusses shall be installed in accordance with the manufacturer's instructions. Trusses shall be installed in accordance with the manufacturer's instructions.

ALPINE

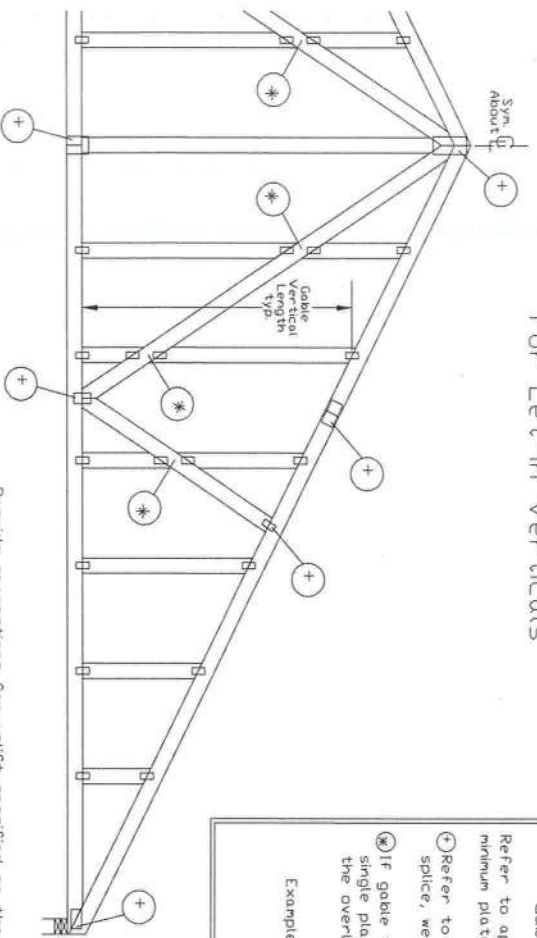
ITW Building Components Group Inc.

Haines City, FL 33844
FL COA #0 278



TC LL	20.0 PSF	REF R215-- 49485
TC DL	10.0 PSF	DATE 05/14/13
BC DL	10.0 PSF	DRW HOURS215 13134048
BC LL	0.0 PSF	HC-ENG WHK/WHK
TOT. LD.	40.0 PSF	SEQN- 376922
DUR. FAC.	1.25	FROM CDM
SPACING	24.0"	JREF- 1UW8215_Z03

Gable Detail For Let-in Verticals



Gable Truss Plate Sizes
Refer to appropriate ITW gable detail for minimum plate sizes for vertical studs.

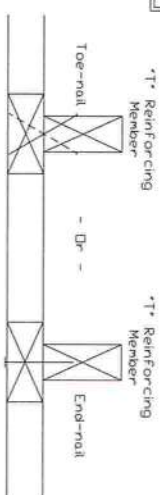
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊗ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



T Reinforcement Attachment Detail



To convert from "L" to "T" reinforcing members, multiply "T" increase by length based on appropriate ITW gable detail.

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

T reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

T Reinf. Mem. Size	*T* Increase
2x4	30 %
2x6	20 %

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24' o.c. SP #3
T Reinforcing Member Size = 2x4
T Brace Increase (from Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length 1.30 x 8' 7" = 11' 2"

This detail to be used with the appropriate ITW gable detail for ASCE wind load.

- ASCE 7-98 Gable Detail Drawings
 - A13015980109, A12015980109, A10015980109,
 - A13030980109, A12030980109, A10030980109
- ASCE 7-02 Gable Detail Drawings
 - A13015020109, A12015020109, A10015020109,
 - A13030020109, A12030020109, A10030020109
- ASCE 7-05 Gable Detail Drawings
 - A13015050109, A12015050109, A10015050109,
 - A13030050109, A12030050109, A10030050109
- ASCE 7-10 Gable Detail Drawings
 - A11515ENC100212, A12015ENC100212, A14015ENC100212, A16015ENC100212, A20015ENC100212, A24015ENC100212, A28015ENC100212, A32015ENC100212, A36015ENC100212, A40015ENC100212, A44015ENC100212, A48015ENC100212, A52015ENC100212, A56015ENC100212, A60015ENC100212, A64015ENC100212, A68015ENC100212, A72015ENC100212, A76015ENC100212, A80015ENC100212, A84015ENC100212, A88015ENC100212, A92015ENC100212, A96015ENC100212, A100015ENC100212

See appropriate ITW gable detail for maximum unreinforced length.

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING. FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI Building Component Safety Information, by IPI and WICCA for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall be used for temporary bracing. Refer to drawings 100A-2 for standard plate positions. Refer to drawings 100A-2 for standard plate positions.

ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any fabrication, handling, shipping, installing, bracing or use of this drawing. The acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/FP1 I Sec2. For more information see this job's general notes page and these web sites:
ITWBCG ***itwbcg.com*** IPI ***ipicons.org*** WICCA ***wiccaindustrial.org*** ICC ***icc.org***



Earth City, MO 63045



May 14 '13

REF	LET-IN VERT
DATE	2/16/12
DRWG	GBLLETIN0212

MAX. TOT. L.D. 60 PSF
DUR. FAC. ANY
MAX. SPACING 24.0"