

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

RE: 2571450 - REED - CARTER JOB

MiTek USA, Inc.

6904 Parke East Blvd.

Site Information:

Customer Info: Project Name:

Model:

Tampa, FL 33610-4115

Lot/Block:

Subdivision:

Address:

City:

State:

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name:

License #:

Address:

City:

State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2017/TPI2014

Design Program: MiTek 20/20 8.2

Wind Code: ASCE 7-10 Roof Load: 37.0 psf

Wind Speed: 130 mph Floor Load: N/A psf

This package includes 2 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

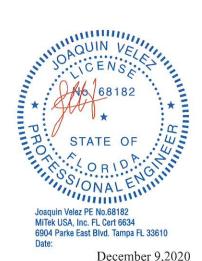
Truss Name Date No. Seal# T22120651 T01 12/9/20 T22120652 T01G 12/9/20

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Jacksonville.

Truss Design Engineer's Name: Velez, Joaquin

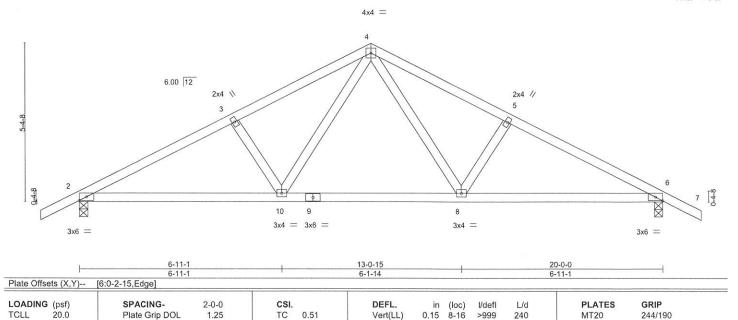
My license renewal date for the state of Florida is February 28, 2021.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



Job Truss Truss Type Qty REED - CARTER JOB T22120651 2571450 T01 FINK Job Reference (optional) Builders FirstSource (Jacksonville, FL), 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 9 09:06:46 2020 Page 1 Jacksonville, FL - 32244, ID:GdyLp?j6aeQqia9DyVA5iLyG34O-fBAFe137gpwu8BKZx12yc9VZsRkecR7n0pVUOayAkzt 10-0-0 20-0-0 21-4-0 4-8-2 5-3-14

Scale = 1:37.6



Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.13 8-16

0.03

>999

6 n/a 180

n/a

Rigid ceiling directly applied or 4-8-3 oc bracing

Structural wood sheathing directly applied or 5-0-7 oc purlins.

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

7.0

0.0

10.0

2x4 SP No.3 **WEBS**

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=-119(LC 13)

Max Uplift 2=-356(LC 9), 6=-356(LC 8) Max Grav 2=812(LC 1), 6=812(LC 1)

Lumber DOL

Rep Stress Incr

Code FBC2017/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1249/1599, 3-4=-1121/1587, 4-5=-1121/1587, 5-6=-1249/1599

BOT CHORD 2-10=-1322/1085, 8-10=-791/727, 6-8=-1332/1085

WEBS 3-10=-272/310, 4-10=-723/431, 4-8=-723/431, 5-8=-272/310

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

BC

WB 0.49

Matrix-MS

0.46

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.25

YES

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 356 lb uplift at joint 2 and 356 lb uplift at



FT = 20%

Weight: 93 lb

6904 Parke East Blvd, Tampa FL 33610

December 9,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

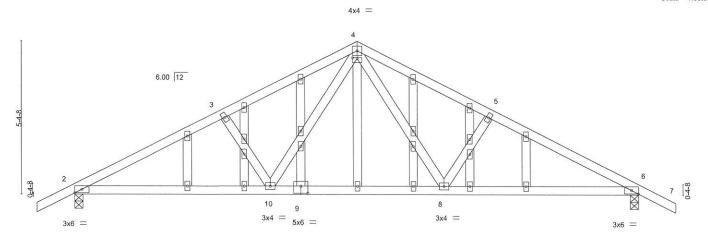
Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Plv REED - CARTER JOB T22120652 2571450 T01G GABLE Job Reference (optional) Builders FirstSource (Jacksonville, FL), 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 9 09:06:47 2020 Page 1 Jacksonville, FL - 32244. ID: GdyLp? j6aeQqia9DyVA5iLyG34O-7NkdrN4IR72ImLvmUkZB9M1kcr4tLuNwETE1x1yAkzs21-4-0 10-0-0 20-0-0 4-8-2 5-3-14

Scale = 1:38.9



	8	6-11-1			13-0-15				20-0-0			1	
	6-11-1			6-1-14									
Plate Offsets (X,Y) [4:0-2-0,0-0-4], [6:0-2-15,Edge], [9:0-3-0,0-3-0]													
OADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
CLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	0.15	8-32	>999	240	MT20	244/190	
CDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	0.13	8-32	>999	180			
CLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	6	n/a	n/a			
CDL	10.0	Code FBC2017/T	PI2014	Matri	x-MS	S. S					Weight: 125 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 2x4 SP No.3 WEBS 2x4 SP No.3 **OTHERS**

REACTIONS.

(size) 2=0-3-8, 6=0-3-8

Max Horz 2=-119(LC 13)

Max Uplift 2=-356(LC 9), 6=-356(LC 8) Max Grav 2=812(LC 1), 6=812(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 356 lb uplift at joint 2 and 356 lb uplift at joint 6.



Structural wood sheathing directly applied or 5-0-7 oc purlins.

Rigid ceiling directly applied or 4-8-3 oc bracing.

Date:

December 9,2020

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ANS/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

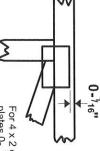


Symbols

PLATE LOCATION AND ORIENTATION



offsets are indicated. and fully embed teeth. Apply plates to both sides of truss Center plate on joint unless x, y Dimensions are in ft-in-sixteenths



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

required direction of slots in connector plates. This symbol indicates the

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 × 4

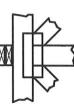
width measured perpendicular to slots. Second dimension is the length parallel to slots. The first dimension is the plate

LATERAL BRACING LOCATION



if indicated. by text in the bracing section of the output. Use T or I bracing Indicated by symbol shown and/or

BEARING



(supports) occur. Icons vary but Min size shown is for crushing only number where bearings occur. reaction section indicates joint Indicates location where bearings

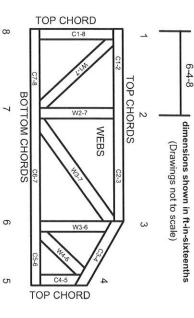
ANSI/TPI1: Industry Standards:

DSB-89

National Design Specification for Metal Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Building Component Safety Information, Plate Connected Wood Truss Construction. Design Standard for Bracing

Connected Wood Trusses

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1 established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For bracing should be considered wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building

4

Cut members to bear tightly against each other

5

6

- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

7.

- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21.The design does not take into account any dynamic or other loads other than those expressly stated.