

6 1834

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

RE: 3596072 - CHRIS DICKS - ADDITION

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:

Customer Info: GARY JOHNONS Project Name: Addition Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

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: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 1 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.

No.	Seal#	Truss Name	Date
1	T31003381	T01	7/11/23

This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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-Lake City, FL.

Truss Design Engineer's Name: Lee, Julius

My license renewal date for the state of Florida is February 28, 2025.

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.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd, Chesterfield, MO 63017
Date: 7/11/2023

July 11, 2023

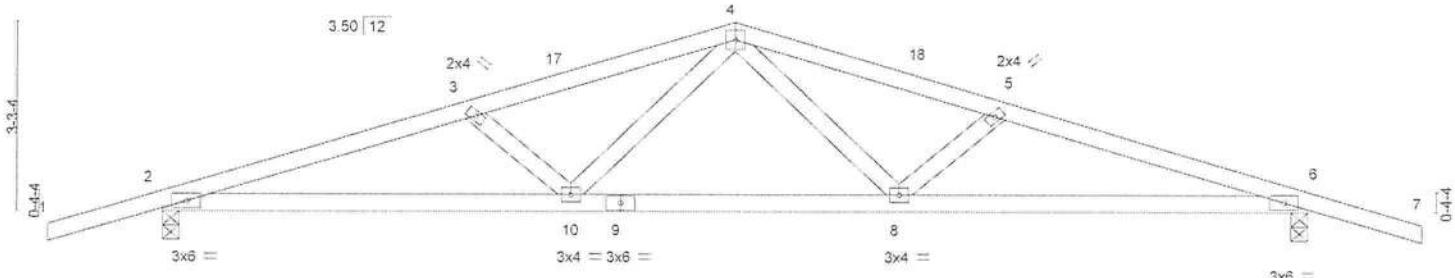
Lee, Julius

1 of 1

Job 3596072	Truss T01	Truss Type FINK	Qty 8	Ply 1	CHRIS DICKS - ADDITION	T31003381
Builders FirstSource (Lake City, FL),	Lake City, FL - 32055,				Job Reference (optional)	
-2-0-0 2-0-0	5-5-9 5-5-9	10-0-0 4-6-7	14-6-7 4-6-7	20-0-0 5-5-9	22-0-0 2-0-0	8.530 s Mar 9 2023 MiTek Industries, Inc. Mon Jul 10 08:34:02 2023 Page 1 ID:ec1s19tCEIr?6KYrmH1z_XL0-RIC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7JaJC?f

Scale = 1:38.5

4x4 =



7-1-10
7-1-10 | 12-10-8
5-8-11 | 20-0-0
7-1-10

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.23	Vert(LL)	-0.10	8-10	>999	240	
TCOL 7.0	Lumber DOL	1.25	BC 0.55	Vert(CT)	-0.19	8-10	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.05	6	n/a	n/a	
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS					Weight: 86 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-8-9 oc bracing.

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

Max Horz 2=52(LC 16)
Max Uplift 2=-247(LC 8), 6=-247(LC 9)
Max Grav 2=848(LC 1), 6=848(LC 1)

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

TOP CHORD 2-3=-1865/533, 3-4=-1634/460, 4-5=-1634/460, 5-6=-1865/533
BOT CHORD 2-10=-454/1761, 8-10=-275/1216, 6-8=-462/1761
WEBS 3-10=-320/160, 4-10=-98/471, 4-8=-98/471, 5-8=-320/160

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 0-9-15, Interior(1) 0-9-15 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 22-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 247 lb uplift at joint 2 and 247 lb uplift at joint 6.

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Julius Lee PE No. J4869
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Date:

July 11, 2023

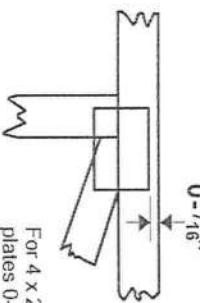
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information](#) available from Truss Plate Institute, 2570 Crain Highway, Suite 203 Waldorf, MD 20601



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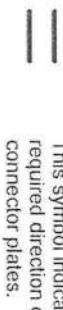
Symbols

PLATE LOCATION AND ORIENTATION



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

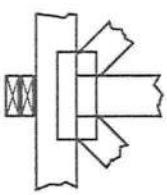
For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



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

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

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Min size shown is for crushing only.

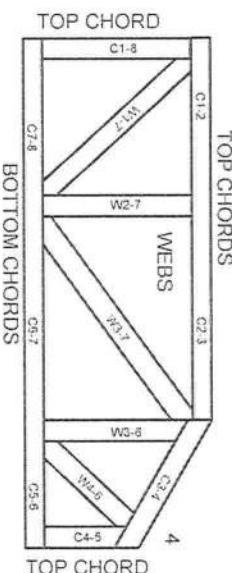
ANSI/TPI1: National Design Specification for Metal

DSB-89: Design Standard for Bracing.

BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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, ESR-1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

LATERAL BRACING LOCATION

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

4 X 4

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g., diagonal or X-bracing, is always required. See BCSI.

2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.

3. Never exceed the design loading shown and never slack materials on inadequately braced trusses.

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

5. Cut members to bear tightly against each other.

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.

7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.

11. 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 specified.

13. Top chords must be sheathed or purlins provided at spacing indicated on design.

14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.

15. Connections not shown are the responsibility of others.

16. Do not cut or alter truss member or plate without prior approval of an engineer.

17. Install and load vertically unless indicated otherwise.

18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.

19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.

20. 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.





Delivery

 Builders FirstSource	Sold To: CASH KIM HOLLOWAY Lake City, FL	AppWrt Job No. 3596072 OnLine Job No. P.T. Sales No	Ship Date Quote Account PO
Plant: Jacksonville Truss 6550 Roosevelt Blvd. Jacksonville, FL 904-772-6100	SubDvsn: ADDITION - CHRIS DICKS, FL Lot: n/a Model/Elev: CUSTOM / GABLE Options Shipment Roof	Req'd Engineering	Req'd Layouts
Sales Rep KIMBER HOLLOWAY Mfg Sales Rep Kim Holloway Sales Area Dist Center BFS Lake City Estimator Kim.Holloway Designer	Directions	Job Contacts Name CHRIS DICKS Phone 386-365-1223 Fax	Site Office
Jig01	Truss ID Type Slope Left Right Stub Heel Height Span Quantity (Depth)		Weight/Ply Total Weight
	T01 20-0-0	8 Jig Totals Total Trusses: 8	ROOF TC: 3.5 OH: 2-0-0 OH: 2-0-0 L: 0-4-4 R: 0-4-4 3-9-10 ht 3-9-10 maxht
Delivery Person Delivered By: _____ Date: _____ Remarks: _____		On Site Receiver Received By: _____ Date: _____ Remarks: _____	

