

Lymber design values are in accordance with ANSI/TPI 1 section 6.3

RE: 4148996 - MIKE TODD - CARPORT

MiTek, Inc.

Site Information:

16023 Swingley Ridge Rd. Chesterfield, MO 63017

Customer Info: MIKE TODD CONST. Project Name: Phillips Garage Model: Customated August 1971

Subdivision: N/A

Lot/Block: N/A

Address: 104 SE Ponce De Leon Ave., N/A

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: FBC2023/TPI2014

Design Program: MiTek 20/20 8.7

Wind Code: ASCE 7-22

Wind Speed: 130 mph

Roof Load: 37.0 psf

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.

No.	Seal#	Truss Name	Date
1	T35227559	T01	10/9/24
2	T35227560	T01G	10/9/24

This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal. 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: ORegan, Philip

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.

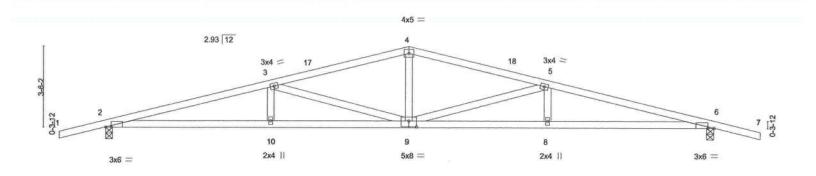


Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 9,2024

Job	Truss	Truss Type	Truss Type		Ply	MIKE TODD - CARPORT			
4148996	T01	HOWE		12	1	1	T35227559		
						Job Reference (optional)			
Builders FirstSource (Lake	e City,FL), Lake City,	, FL - 32055,			8.730 s Se	ep 25 2024 MiTek Industries, Inc. Wed Oc	t 9 10:06:14 2024 Page 1		
				ID:q1bUOXyvi	aG18Lp_Nx3	35e1zDhk97z6X47X896eW8Do1FBIXqj1	lewYKqyb_OKucphyVAoN		
-2-0-0	7-1-10		13-1-8	1	19-1-6	26-3-0	, 28-3-0		
2-0-0	7-1-10		5-11-14		5-11-14	7-1-10	2-0-0		

Scale = 1:48.5



	4	7-1-10	4	13	3-1-8	The state of the s	19-1	-6			26-3-0	
		7-1-10		5-1	11-14		5-11-	14			7-1-10	
Plate Offse	ets (X,Y)-	[2:0-2-14,Edge], [6:0-2-14	4,Edge], [9:0-4-	-0,0-3-0]								
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	0.61	Vert(LL)	0.33	9-10	>960	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.47	9-10	>666	180	0100010000000	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.12	6	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matrix	c-MS						Weight: 112 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

REACTIONS.

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=61(LC 12)

Max Uplift 2=-600(LC 8), 6=-600(LC 9) Max Grav 2=1079(LC 1), 6=1079(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3048/1549, 3-4=-2094/1057, 4-5=-2094/1057, 5-6=-3048/1550 BOT CHORD 2-10=-1499/2938, 9-10=-1499/2938, 8-9=-1440/2938, 6-8=-1440/2938 3-10=-98/263, 4-9=-357/677, 5-8=-98/263, 3-9=-1013/599, 5-9=-1013/600 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; 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 Zone3 -2-0-0 to 1-1-12, Zone1 1-1-12 to 13-1-8, Zone2 13-1-8 to 17-4-7, Zone1 17-4-7 to 28-3-0 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) 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.
- * 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 100 lb uplift at joint(s) except (jt=lb) 2=600, 6=600,

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Structural wood sheathing directly applied or 2-7-6 oc purlins.

Rigid ceiling directly applied or 2-2-0 oc bracing.

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🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 1/2/2823 BEFORE USE.

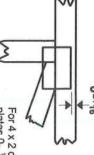
Design valid for use only with MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a fluss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Symbols



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



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

required direction of slots in connector plates This symbol indicates the

*Plate location details available in MiTek software or upon request

PLATE SIZE



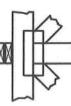
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

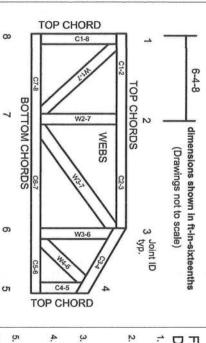
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-22:

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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 established by others. Lumber design values are in accordance with ANSI/TPI 1

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MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023



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 wide truss spacing, individual lateral braces themselves bracing should be considered. may require bracing, or alternative Tor I
- Never exceed the design loading shown and never stack materials on inadequately braced trusses
- designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each locations are regulated by ANSI/TPI 1. joint and embed fully. Knots and wane at joint
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for
- Camber is a non-structural consideration and is the use with fire retardant, preservative treated, or green lumber.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.

camber for dead load deflection.

responsibility of truss fabricator. General practice is to

- 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.
- 17. 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 is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.

