



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

RE: carport - Stalnaker Carport ADD

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: Cecil Stalnaker Project Name: . Model: .

Lot/Block: .

Subdivision: .

Address: ., .

City: Ft White

State: FI

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

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 8.4

Wind Code: N/A

Wind Speed: 130 mph

Roof Load: 40.0 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.

Seal#

Truss Name

T23284899 A1GE 2 T23284900

3/22/21 3/22/21



The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Reviewed

My license renewal date for the state of Florida is February 28, 2023.

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.



MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

March 22,2021

Joh Stalnaker Carport ADD Truss Truss Type Qty T23284899 CARPORT A1GE GABLE 1 Job Reference (optional) Mayo, FL - 32066. 8.430 s Mar 4 2021 MiTek Industries, Inc. Mon Mar 22 07:04:27 2021 Page 1 Mayo Truss Company, Inc. ID:bNzUN\_gA4yIDwh6eaxStR7zahev-PNCksoXZNM0cYKEXsmVzInUMec0d?teTqTQuwuzYSao 31-0-4

6-10-14

Scale = 1 68 5

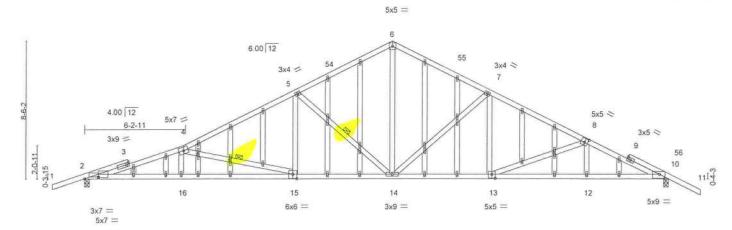
6.0.0

Structural wood sheathing directly applied.

4-15, 5-14

Rigid ceiling directly applied.

1 Row at midpt



		6-0-0	0-1-6	13-0-4 6-10-14		6-0-0	25-0-4 6-0-0			31- 6-0		-12
Plate Offsets (X,Y)		[2:0-10-4,0-1-4], [2:0-10	- Contract of the Contract of			T. T. S.			11 125:0-			
i iuto Onio	(/1,1/	,0-0-12]	117 7 174	[0.0 0 0,0 0 0]; [		[10.0 2 0]0 0 0]	1,1,0,0		rp (a.e.e			A 7/3/
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.78	Vert(LL)	-0.25 1	5-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.55 1	5-16	>783	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.15	10	n/a	n/a		
BCDL	10.0	Code FBC2020/	TPI2014	Matr	x-AS						Weight: 261 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

**BOT CHORD** 

LUMBER-

2x4 SP No.2 \*Except\* TOP CHORD

2-4: 2x4 SP SS BOT CHORD 2x4 SP No.2 "Except"

2-15: 2x4 SP No.1 2x4 SP No 2

WEBS 2x4 SP No.2 **OTHERS** 

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=159(LC 11)

Max Uplift 2=-52(LC 12), 10=-53(LC 12) Max Grav 2=1557(LC 1), 10=1557(LC 1)

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

TOP CHORD 2-4=-4266/340, 4-5=-2665/267, 5-6=-1827/265, 6-7=-1823/262, 7-8=-2425/251,

8-10=-3013/250

2-16=-249/4079, 15-16=-254/4065, 14-15=-85/2289, 13-14=-79/2089, 12-13=-160/2721, **BOT CHORD** 

10-12=-158/2725

4-16=0/282, 4-15=-1818/183, 5-15=0/621, 5-14=-971/154, 6-14=-102/1221, WEBS

7-14=-709/130, 7-13=0/435, 8-13=-667/88

### 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=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-8-13, Interior(1) 1-8-13 to 19-0-4, Exterior(2R) 19-0-4 to 22-7-7, Interior(1) 22-7-7 to 38-0-0 zone; cantilever left and right exposed; end vertical 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 2 and 53 lb uplift at joint 10.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



6904 Parke East Blvd. Tampa FL 33610 Date:

March 22,2021

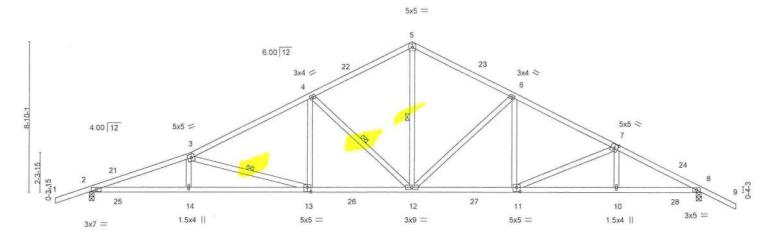


Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 guildance 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



Job Truss Truss Type Qty Ply Stalnaker Carport ADD T23284900 CARPORT A2 Roof Special 12 1 Job Reference (optional) Mayo Truss Company, Inc. Mayo, FL - 32066 8 430 s Mar 4 2021 MiTek Industries, Inc. Mon Mar 22 07:04:28 2021 Page 1 ID:bNzUN\_gA4yIDwh6eaxStR7zahev-tam648YB8g8TAUpjQT0CH\_0aiCNMkKoc37ASSLzYSan 7-0-3 19-0-4 6-0-0 25-0-4 31-0-4 36-0-0 6-0-0

Scale = 1:65.2



		6-0-0			6-0-0		6-0-0			6-0-0	4-11	
Plate Offs	sets (X,Y)	[7:0-2-8,0-3-0], [11:0-2-	8,0-3-0], [13:0-2-	8,0-3-4]								
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.40	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.49	13-14	>876	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.15	8	n/a	n/a		
BCDL	10.0	Code FBC2020/	TPI2014	Matri	x-AS						Weight: 197 lb	FT = 20%

BRACING-

WERS

TOP CHORD

BOT CHORD

25-0-4

31-0-4

Structural wood sheathing directly applied.

3-13 4-12 5-12

Rigid ceiling directly applied.

1 Row at midpt

19-0-4

LUMBER-

REACTIONS.

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

2x4 SP No 2 WERS

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

6-0-0

Max Horz 2=164(LC 11) Max Uplift 2=-359(LC 12), 8=-359(LC 12) Max Grav 2=1560(LC 1), 8=1560(LC 1)

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

TOP CHORD 2-3=-3794/2794, 3-4=-2560/1885, 4-5=-1791/1392, 5-6=-1787/1389, 6-7=-2330/1734,

13-0-4

7-8=-2784/2038

2-14=-2569/3556, 13-14=-2552/3547, 12-13=-1506/2201, 11-12=-1384/2011, BOT CHORD

10-11=-1742/2435, 8-10=-1748/2438

WEBS 3-14=-244/252, 3-13=-1389/1075, 4-13=-581/579, 4-12=-925/738, 5-12=-1107/1196,

6-12=-675/550, 6-11=-406/394, 7-11=-461/380

### 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=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-7-3, Interior(1) 1-7-3 to 19-0-4, Exterior(2R) 19-0-4 to 22-7-7, Interior(1) 22-7-7 to 38-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left 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 359 lb uplift at joint 2 and 359 lb uplift at
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



36-0-0

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March 22,2021

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 designs. 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 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



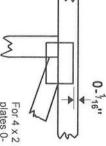
### Symbols

# 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- <sup>1</sup>/16" from outside edge of truss.

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S

O

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

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

### PLATE SIZE



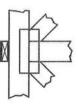
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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.

### BEARING



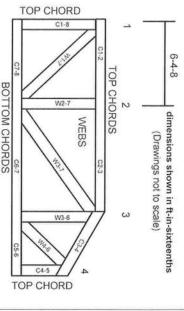
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

### Industry Standards: ANSI/TPI1: National I

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

DSB-89:

# 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

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

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

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

# **General Safety Notes**

## Failure to Follow Could Cause Property Damage or Personal Injury

- 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 may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

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- Cut members to bear tightly against each other
- 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.

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- 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 responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- 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 after 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.
- 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.