These truss designs rely on lumber values established by others.

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

RE: 0425-043 - MIKE TODD - GERKE RESIDENCE

MiTek, Inc.

16023 Swingley Ridge Rd Chesterfield, MO 63017

Customer Info: MIKE TODD CONSTRUCTION Project Name: JASON GERKE Mogel 4.434.1200

Lot/Block: 30-4S-17-08913-010 Subdivision: .

Address: ...

Site Information:

City: COLUMBIA COUNTY

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 8.8

Wind Code: ASCE 7-22 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 26 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	No.	Seal#	Truss Name	Date
1	T37134678	A01	4/25/25		T37134700	PB01	4/25/25
23456789	T37134679 T37134680	A02 A03	4/25/25 2 4/25/25 2		T37134701 T37134702	PB02 PB03	4/25/25 4/25/25
4	T37134681	A04	4/25/25		T37134703	PB04	4/25/25
5	T37134682	A04A	4/25/25				
6	T37134683 T37134684	A05 A05A	4/25/25 4/25/25				
8	T37134685	A06	4/25/25				
9	T37134686	<u> A06</u> A	4/25/25				
10 11	T37134687 T37134688	A07 A07A	4/25/25 4/25/25				
12	T37134689	A08	4/25/25				
12 13	T37134690	A80A	4/25/25				
14 15	T37134691 T37134692	A09 A09A	4/25/25 4/25/25				
14 15 16	T37134693	CJ01	4/25/25				
17	T37134694	CJ02	4/25/25				
18 19	T37134695 T37134696	J01 J01A	4/25/25 4/25/25				
18	T07104080	3017	4/20/20				



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: Lee, Julius

T37134698

My license renewal date for the state of Florida is February 28, 2027.

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

April 25,2025

Job Truss Truss Type Qty Ply MIKE TODD - GERKE RESIDENCE T37134678 0425-043 A01 9 1 Job Reference (optional) Mayo Truss Company, Inc. Mayo FL 32066 Run 8 83 S Apr 11 2025 Print. 8 830 S Apr 11 2025 MiTek Industries Inc. Fri Apr 25 08 11.46 Page 1 -2-0-0 <u>58-0-0</u> 60-0-0 5-0-0 10-2-12 14-1-12 21-0-0 29-0-0 37-0-0 43-10-4 49-9-4 54-0-0 5-0-0 5-2-12 3-11-0 6-10-4 8-0-0 2-0-0 8-0-0 6-10-4 5-11-0 4-2-12 4-0-0 2-0-0 58-0-0

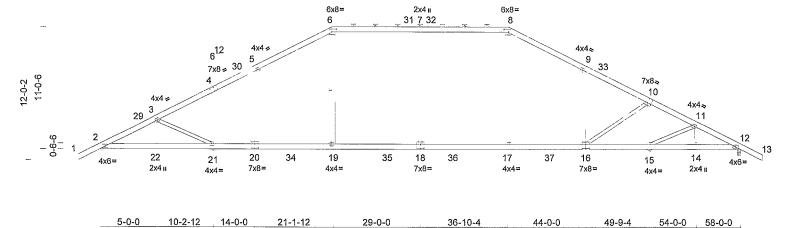


Plate Offsets (X, Y) [4 0-4-0 0-4-8], [6 0-5-4 0-3-0], [8 0-5-4,0-3-0], [10 0-4-0,0-4-8] [16 0-4-0,0-4-8], [18 0-4-0,0-4-8] [20 0-4-0 0-4-8]

7-1-12

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 33	Vert(LL)	-0 08	17-18	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 38	Vert(CT)	-0 15	17-18	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 95	Horz(CT)	0 03	15	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS							Weight, 476 lb	FT = 20%

7-10-4

7-10-4

7-1-12

5-9-4

4-2-12

4-0-0

LUMBER

Scale = 1 104.4

TOP CHORD 2x6 SP No 2 BOT CHORD 2x6 SP No 2 WEBS 2x4 SP No 2

BRACING TOP CHORD

Structural wood sheathing directly applied

except

2-0-0 oc purlins (5-7-3 max) 6-8
BOT CHORD Rigid celling directly applied
WEBS 1 Row at midpt 6-19, 7-18, 8-17

5-0-0

5-2-12

3-9-4

WEBS 1 Row at midpt 6-19, 7-18, 8-17
REACTIONS (size) 2=0-3-8, 12=0-3-8, 15=0-5-8,

21=0-5-8 Max Horiz 2=-222 (LC 10)

Max Uplift 2=-65 (LC 12), 12=-69 (LC 12) Max Grav 2=436 (LC 23) 12=317 (LC 24)

15=2446 (LC 18) 21=2520 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-3=-307/31, 3-5=-866/403

1-2=0/54, 2-3=-307/31, 3-5=-866/403 5-6=-1502/182, 6-7=-1640/206, 7-8=-1640/206, 8-9=-1684/187,

9-11=-1335/410, 11-12=-78/108, 12-13=0/54

BOT CHORD 2-22=-33/314, 21-22=-33/314, 19-21=-276/818, 17-19=0/1425, 15-17=-323/1108, 14-15=-76/61,

12-14=-76/89

WEBS 6-19=-298/65 7-18=-525/128, 8-17=-133/167, 4-21=-2088/90 3-22=0/199

10-15=-2066/107 9 16=-789/89, 11-14=0/136 11-15=-383/27 9-17=0/463, 3-21=-547/40, 5-20=-1137/83, 5-19=0/771 4-20=-18/1635, 6-18=-28/635 8-18=-22/439,

10-16=-16/1745

10-10--10/1/2

NOTES

 Unbalanced roof live loads have been considered for this design

- 2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf, BCDL=6 0psf, h=15ft; B=45ft, L=58ft, eave=7ft; Cat II, Exp B Enclosed MWFRS (directional) and C-C Zone3 -2-0-0 to 3-9-10, Zone1 3-9-10 to 21-0-0, Zone2 21-0-0 to 29-0-0 Zone1 29-0-0 to 37-0-0 Zone2 37-0-0 to 45-2-7 Zone1 45-2-7 to 60-0-0 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
- 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) Provide adequate drainage to prevent water ponding
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members with BCDL = 10 0psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 2 and 69 lb uplift at joint 12
- 8) 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
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MITck Inc. DBA MiTck USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

April 25,2025

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 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 eraction and bracing of trusses and truss systems, see ANSITP1 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)



Job Truss Truss Type Qty Ply MIKE TODD - GERKE RESIDENCE T37134679 0425-043 A02 2 1 Job Reference (optional) Mayo Truss Company Inc. Mayo FL 32066, Run 8 83 S Apr 11 2025 Print 8 830 S Apr 11 2025 MiTek Industries Inc. Fri Apr 25 08 11 47 Page 1 ID-flUMDUZVjSSanyS1lcAvyUzNS95-RfC?PsB70Hq3NSgPqnL8w3uiTXbGKWrCDoi7J4zJC?f 1 -2-0-0 58-0-0 60-0-0 5-0-0 10-2-12 14-1-12 21-0-0 37-0-0 29-0-0 43-10-4 49-9-4 54-0-0 5-0-0 5-2-12 2-0-0 3-11-0 6-10-4 8-0-0 8-0-0 6-10-4 5-11-0 4-2-12 4-0-0 2-0-0 58-0-0 6x8= 2x4 II 6x8= 6 29 7 30 8 6¹² 4x4 = 4x4 > 9 5 7x8 = 37 31 7x8> 10 4x4 = 4x4 > 3 11 12 13 22 20 32 19 33 21 18 34 17 35 16 15 14 4x6= 4x6≃ 2x4 ı 7x8= 4x4≃ 7x8= 4×4= 7x8= 2x4 II 4x4= 5-0-0 10-2-12 14-0-0 21-1-12 29-0-0 36-10-4 44-0-0 54-0-0 58-0-0 49-9-4 5-0-0 5-2-12 3-9-4 7-1-12 7-10-4 7-10-4 7-1-12 5-9-4 4-2-12 4-0-0 Scale = 1 104.4 Plate Offsets (X Y) [4 0-4-0,0-4-8], [6 0-5-4,0-3-0], [8 0-5-4,0-3-0] [10 0-4-0 0-4-8] [16 0-4-0 0-4-8] [18 0-4-0,0-4-8] [20 0-4-0 0-4-8] Loading (psf) Spacing 2-0-0 CSI DEFL I/defl L/d **PLATES GRIP** in (loc) TCLL (roof) 200 Plate Grip DOL 1 25 TC >999 Vert(LL) -0 08 240 0 27 17-18 MT20 244/190 TCDL. 10.0 Lumber DOI 1 25 BC 0 38 Vert(CT) -0 15 17-18 >999 180 **BCLL** 0.04 Rep Stress Incr YES WB 0 94 Horz(CT) 0 03 15 n/a n/a BCDL 100 Code FBC2023/TPI2014 Matrix-AS Weight 476 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No 2
BOT CHORD 2x6 SP No 2

WEBS 2x4 SP No 2 BRACING

BRACING
TOP CHORD
BOT CHORD
WEBS
Structural wood sheathing directly applied
Rigid ceiling directly applied
1 Row at midpt
REACTIONS
(size)
2=0-3-8, 12=0-3-8, 15=0-5-8

(size) 2=0-3-8, 12=0-3-8 15=0-5 21=0-5-8 Max Horiz 2=222 (LC 11)

Max Uplift 2=-135 (LC 12) 12=-126 (LC 12) 15=-60 (LC 12) 21=-88 (LC 12) Max Grav 2=436 (LC 23) 12=317 (LC 24)

Max Grav 2=436 (LC 23) 12=317 (LC 24) 15=2384 (LC 18) 21=2439 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 6-7=-1650/187, 7-8=-1650/187, 8-9=-1694/168, 9-11=-1350/405 11-12=-78/121, 12-13=0/54, 1-2=0/54 2-3=-299/131 3-5=-887/379, 5-6=-1515/159

2-3=-299/131 3-5=-887/379, 5-6=-1515/ 2-22=-101/262 21-22=-101/262 19-21=-254/837, 17-19=0/1434,

15-17=-306/1121, 14-15=-77/49 12-14=-77/49

3-22=-59/199, 3-21=-486/185,

4-21=-2081/101, 6-19=-298/77 6-18=-30/635, 7-18=-525/127, 8-18=-19/439 8-17=-133/167, 9-17=0/462 9-16=-784/100

10-16=-25/1740, 10-15=-2061/118 11-15=-339/147, 11-14=-57/136 5-19=0/760,

5-20=-1126/102, 4-20=-27/1630

NOTES

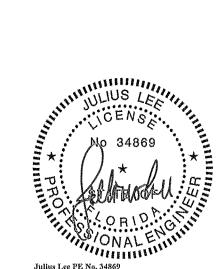
WEBS

BOT CHORD

 Unbalanced roof live loads have been considered for this design

- 2) Wind ASCE 7-22 Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf; BCDL=6 0psf; h=15ft, B=45ft, L=58ft, eave=7ft; Cat. II, Exp B, Enclosed, MWFRS (directional) and C-C Zone3 -2-0-0 to 3-9-10, Zone1 3-9-10 to 21-0-0, Zone2 21-0-0 to 29-0-0, Zone1 29-0-0 to 37-0-0 Zone2 37-0-0 to 45-2-7, Zone1 45-2-7 to 60-0-0 zone, cantilever left and right exposed , end vertical left and right exposed porch left and right exposed, C-C for members and forces & MWFRS for reactions shown Lumber DOL=1 60 plate grip DOL=1 60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding
- 5) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
- 6) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members with BCDL = 10 0psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 21, 60 lb uplift at joint 15 126 lb uplift at joint 12 and 135 lb uplift at joint 2
- 8) 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

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MITCk Inc. DBA MiTck USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

April 25,2025

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 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
flabrication storage, delivery erection and bracing of trusses and truss systems, see ANSTP1 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)



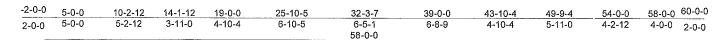
 Job
 Truss
 Truss Type
 Qty
 Ply
 MIKE TODD - GERKE RESIDENCE

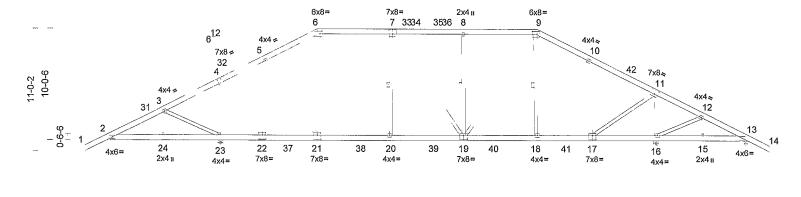
 0425-043
 A03
 2
 1
 Job Reference (optional)
 T37134680

Mayo Truss Company Inc. Mayo FL 32066,

Run 8 83 S Apr 11 2025 Print. 8.830 S Apr 11 2025 MiTek Industries Inc. Fri Apr 25 08 11 48 ID:cv0FXQaFg942vKxYMUaSblzNS1K-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page 1





5-0-0 10-2-12 14-0-0 19-0-0 25-8-9 32-3-7 38-10-4 44-0-0 49-9-4 54-0-0 58-0-0 5-0-0 5-2-12 3-9-4 5-0-0 6-8-9 6-6-13 6-6-13 5-1-12 5-9-4 4-2-12 4-0-0

Scale = 1 104 2

Plate Offsets (X Y) [4 0-4-0,0-4-8] [6 0-5-4 0-3-0], [7 0-4-0,0-4-8] [9 0-5-4,0-3-0] [11 0-4-0 0-4-8], [17 0-4-0,0-4-8], [19 0-4-0,0-4-8], [21 0-4-0 0-4-8], [22 0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 20	Vert(LL)	-0 08	19-20	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 36	Vert(CT)	-0 15	19-20	>999	180		
BCLL	00*	Rep Stress Incr	YES	WB	0 98	Horz(CT)	0 04	16	n/a	n/a	1	
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS		, ,					Weight, 492 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No 2 BOT CHORD 2x6 SP No 2 WEBS 2x4 SP No 2

WEBS

BRACING
TOP CHORD Structural wood sheathing directly applied

BOT CHORD Rigid ceiling directly applied

WEBS 1 Row at midpt 6-21, 9-18, 7-20, 8-19

REACTIONS (size) 2=0-3-8, 13=0-3-8 16=0-5-8,

23=0-5-8

Max Horiz 2=-203 (LC 10)

Max Uplift 2=-136 (LC 12) 13=-123 (LC 12)

16=-64 (LC 12), 23=-86 (LC 12)

Max Grav 2=423 (LC 23) 13=288 (LC 24) 16=2405 (LC 18) 23=2445 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/54 2-3=-269/133, 3-5=-850/395,

5-6=-1384/145 6-8=-1765/172.

8-9=-1765/172, 9-10=-1623/157,

10-12=-1298/456 12-13=-14/180,

13-14=0/54

BOT CHORD 2-24=-104/226, 23-24=-104/226,

20-23=-267/1256 18-20=0/1741, 16-18=-349/1080 15-16=-130/5,

10-10=-349/1080 12 15⇔ 120/46

13-15=-130/46

WEBS 3-24=-61/195, 3-23=-476/183, 4-23=-2067/109, 6-21=-461/60

9-18=-266/43, 10-18=0/545 10-17=-834/83

11-17=-20/1729 11-16=-2072/130

12-16=-329/143 12-15=-59/131,

7-20=-517/108, 6-20=-33/896 7-19=-12/118 8-19=-407/112, 9-19=-25/699, 5-21=0/847

6-19=-40//112, 9-19=-25/099, 5-21=0/84 5-22=-1166/71 / 22=-12/1596

5-22=-1166/71, 4-22=-12/1586

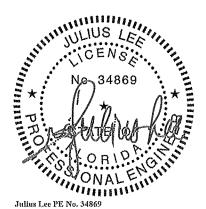
NOTES

 Unbalanced roof live loads have been considered for this design

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf, BCDL=6 0psf; h=15ft, B=45ft, L=58ft, eave=7ft; Cat II, Exp B, Enclosed, MWFRS (directional) and C-C Zone3 -2-0-0 to 3-9-10, Zone1 3-9-10 to 19-0-0, Zone2 19-0-0 to 27-2-7, Zone1 27-2-7 to 39-0-0 Zone2 39-0-0 to 47-2-7, Zone1 47-2-7 to 60-0-0 zone cantilever left and right exposed end vertical left and right exposed, porch left and right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOI=1 60
- Bullding Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
- 4) Provide adequate drainage to prevent water ponding5) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10 0psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 13, 86 lb uplift at joint 23, 64 lb uplift at joint 16 and 136 lb uplift at joint 2
- 8) 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

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTck Inc. DBA MiTck USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

Aprıl 25,2025

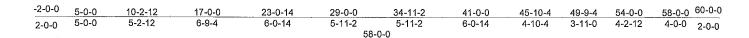
MiTek

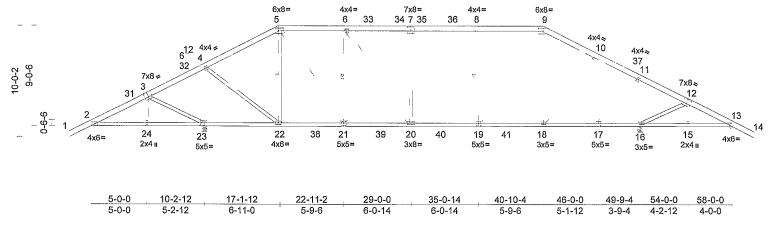
16023 Swingley Ridge Rd
Chesterfield MO 63017
314.434 1200 / MiTek-US com

Mayo Truss Company Inc. Mayo FL 32066

Run 8 83 S Apr 11 2025 Print: 8 830 S Apr 11 2025 MiTek Industries Inc. Fri Apr 25 08 11.48 ID oW7zlFvJVrzr8iQ3VqT6lbzNRv9-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page 1





Scale = 1 104 1

Plate Offsets (X, Y) [3 0-4-0	4-8] [5 0-5-4,0-3-0] [7 0-4-0,0-4-8] [9 0	0-5-4,0-3-01, [12 0-4-0,0-4-8]	[17 0-2-8.0-3-0], [19 0-2-8.0-3-0] [21 0-2-8	0-3-01 [23 0-2-0.0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 25	Vert(LL)	-0 12	19-20	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 57	Vert(CT)	-0 20	19-20	>999	180		
BCLL	00*	Rep Stress Incr	YES	WB	0 98	Horz(CT)	0 05	16	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS							Weight 438 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No 2 **BOT CHORD** 2x4 SP No 2 **WEBS** 2x4 SP No 2

BRACING

TOP CHORD Structural wood sheathing directly applied **BOT CHORD** Rigid ceiling directly applied

WEBS 1 Row at midpt 5-22, 9-18 6-21, 7-20.

8-19

REACTIONS (size) 2=0-3-8 13=0-3-8, 16=0-5-8

23=0-5-8

Max Horiz 2=-184 (LC 10)

Max Uplift 2=-144 (LC 12) 13=-132 (LC 12) 16=-56 (LC 12) 23=-74 (LC 12)

2=308 (LC 23), 13=219 (LC 24), Max Grav

16=2445 (LC 18), 23=2547 (LC 17)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/54 2-4=-23/647 4-5=-1192/128, 5-6=-1607/161, 6-8=-1871/162,

8-9=-1749/167 9-10=-1441/147

10-11=-806/97, 11-13=-27/628 13-14=0/54 2-24=-182/44, 22-24=-394/104,

BOT CHORD 20-22=0/1640, 18-20=0/1744,

16-18=-530/670 15-16=-238/0.

13-15=-235/56 WEBS

5-22=-758/79, 9-18=-455/49 3-24=-71/177 6-21=-710/99, 7-20=-347/74, 6-20=-11/447

10-17= 1165/72 10-18=0/873, 11-16=-2149/100, 5-21=-40/1130, 12-15=-52/161, 12-16=-388/143

11-17=-15/1744 8-19=-570/97 9-19=-31/942, 4-23=-2147/133, 4-22=0/1697,

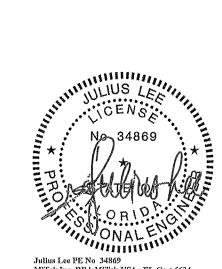
8-20=-4/245, 3-23=-455/174

NOTES

Unbalanced roof live loads have been considered for this design

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf; BCDL=6 0psf, h=15ft, B=45ft, L=58ft, eave=7ft, Cat. II, Exp B, Enclosed MWFRS (directional) and C-C Zone3 -2-0-0 to 3-9-10, Zone1 3-9-10 to 17-0-0, Zone2 17-0-0 to 25-2-7, Zone1 25-2-7 to 41-0-0, Zone2 41-0-0 to 49-2-7, Zone1 49-2-7 to 60-0-0 zone, cantilever left and right exposed, end vertical left and right exposed, porch left and right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=160
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10 0psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 13, 144 lb uplift at joint 2 56 lb uplift at joint 16 and 74 lb uplift at joint 23
- 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

LOAD CASE(S) Standard



Julius Lee PE No 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

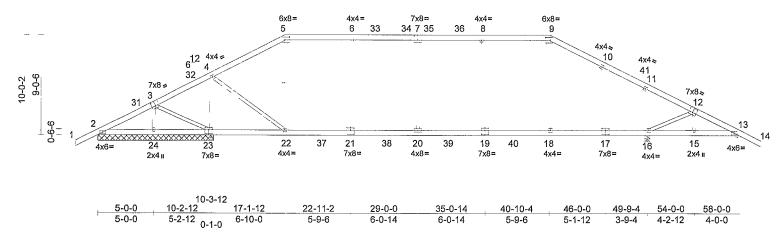
April 25,2025

16023 Swingley Ridge Rd Chesterfield MO 63017 314 434 1200 / MiTek-US.com Job Truss Truss Type Qty Ply MIKE TODD - GERKE RESIDENCE T37134682 0425-043 A04A 1 1 Job Reference (optional)

Mayo Truss Company Inc. Mayo FL 32066,

Run 8 83 S Apr 11 2025 Print: 8 830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 25 08 11.48

-2-0-0 58-0-0 60-0-0 5-0-0 10-2-12 17-0-0 23-0-14 29-0-0 34-11-2 41-0-0 45-10-4 49-9-4 54-0-0 5-0-0 5-2-12 6-9-4 6-0-14 5-11-2 5-11-2 4-10-4 3-11-0 4-2-12 2-0-0 6 - 0 - 144-0-0 2-0-0 58-0-0



Scale = 1 104 1

Plate Offsets (X, Y) [3 0-4-0,0-4-8] [5 0-5-4,0-3-0] [7 0-4-0,0-4-8], [9 0-5-4 0-3-0] [12 0-4-0,0-4-8], [17 0-4-0 0-4-8], [19 0-4-0 0-4-8], [19 0-4-0,0-4-8], [23 0-4-0,0-4-8]

Loading	(nof)	Chaolag	2-0-0	001		DEEL	1	//\	17-1-41	1.7-2	DI ATEO	ODID
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 23	Vert(LL)	-0 09	19-20	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 34	Vert(CT)	-0 17	19-20	>999	180		
BCLL	00*	Rep Stress Incr	YES	WB	88 0	Horz(CT)	0 03	16	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 483 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No 2 **BOT CHORD** 2x6 SP No 2 WEBS 2x4 SP No 2

BRACING

Structural wood sheathing directly applied TOP CHORD BOT CHORD Rigid ceiling directly applied 5-22 9-18, 6-21, 7-20,

WEBS 1 Row at midpt 8-19

Max Grav

REACTIONS (size)

2=10-5-8, 13=0-3-8, 16=0-5-8

23=10-5-8, 24=10-5-8 Max Horiz 2=-184 (LC 10)

Max Uplift 2=-74 (LC 12) 13=-125 (LC 12), 16=-65 (LC 12)

2=269 (LC 23) 13=256 (LC 24)

16=2407 (LC 18), 23=2430 (LC

17), 24=227 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/54, 2-4=-54/517, 4-5=-1242/140,

5-6=-1658/168, 6-8=-1922/165,

8-9=-1799/167 9-10=-1493/144,

10-11=-867/89, 11-13=-19/536, 13-14=0/54 BOT CHORD 2-24=-189/81, 22-24=-327/85, 20-22=0/1712,

18-20=0/1808, 16-18=-450/733

15-16=-196/1, 13-15=-193/44

5-22=-717/68, 9-18=-438/54, 4-22=0/1630,

3-24=-100/98, 4-23=-2073/125

3-23=-258/48, 9-19=-35/950, 6-21=-710/94

5-21=-33/1132, 6-20=-6/444, 7-20=-346/74,

8-20=-9/252, 8-19=-577/101

11-16=-2084/110, 12-16=-353/143,

12-15=-51/144, 10-18=0/855,

10-17=-1144/81, 11-17=-24/1687

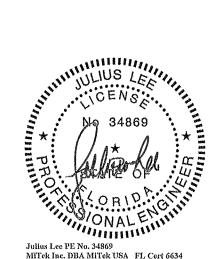
NOTES

WEBS

Unbalanced roof live loads have been considered for this design

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph TCDL=6 0psf, BCDL=6 0psf; h=15ft, B=45ft L=58ft, eave=7ft, Cat II Exp B, Enclosed MWFRS (directional) and C-C Zone3 -2-0-0 to 3-9-10, Zone1 3-9-10 to 17-0-0, Zone2 17-0-0 to 25-2-7, Zone1 25-2-7 to 41-0-0 Zone2 41-0-0 to 49-2-7, Zone1 49-2-7 to 60-0-0 zone, cantilever left and right exposed, end vertical left and right exposed porch right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members with BCDL = 10 0psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 16 125 lb uplift at joint 13, 74 lb uplift at joint 2 and 74 lb uplift at joint 2
- 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

LOAD CASE(S) Standard



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

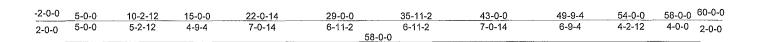
April 25,2025

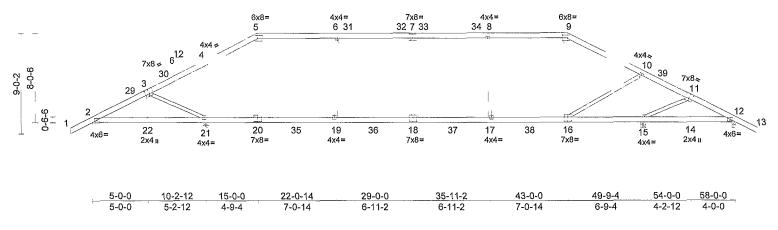
Page 1

MARNING Verify dosign parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII 7473 rev 1/2/2023 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 properly 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)



Job Truss Truss Type Qty Ply MIKE TODD - GERKE RESIDENCE T37134683 0425-043 A05 1 1 Job Reference (optional) Run 8 83 S Apr 11 2025 Print 8 830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 25 08 11.49 Mayo Truss Company Inc. Mayo FL 32066 Page 1 ID:32YL7iuFLk5oHfpYTCO1ogzNRrl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1 104

Plate Offsets (X Y) [3 0-4-0 0-4-8], [5 0-5-4 0-3-0] [7 0-4-0,0-4-8], [9 0-5-4 0-3-0], [11 0-4-0,0-4-8] [16 0-4-0,0-4-8], [18 0-4-0 0-4-8], [20 0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 25	Vert(LL)	-0 11	17-18	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 39	Vert(CT)	-0 19	17-18	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 95	Horz(CT)	0 03	15	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS							Weight, 455 lb	FT = 20%

LUMBER TOP CHORD 2x6 SP No 2

BOT CHORD 2x6 SP No 2 2x4 SP No 2 WEBS

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied **BOT CHORD** Rigid ceiling directly applied

1 Row at midpt REACTIONS (size) 2=0-3-8 12=0-3-8 15=0-5-8

21=0-5-8

Max Horiz 2=-164 (LC 10)

2=-138 (LC 12) 12=-128 (LC 12) Max Uplift

5-20

15=-58 (LC 12) 21=-86 (LC 12)

2=272 (LC 23) 12=207 (LC 24) Max Grav

15=2430 (LC 18), 21=2585 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

BOT CHORD

1-2=0/54, 2-4=-13/741, 4-5=-787/95 TOP CHORD

5-6=-1668/134, 6-8=-2045/133,

8-9=-1878/145, 9-10=-1281/110

10-12=-14/634, 12-13=0/54

2-22=-265/36, 21-22=-267/0 19-21=-597/681, 17-19=0/1871

15-17=-520/1061 14-15=-303/0

12-14=-301/42

3-22=-63/203, 3-21=-490/187

4-21=-2220/114 4-20=-5/1773

5-20=-1063/86, 9-16=-694/85 10-16=0/1811

10-15=-2099/136 11-15=-320/135,

11-14=-65/131 6-19=-817/118,

5-19=-45/1498, 6-18=-17/559 7-18=-402/84

8-18=-5/271, 8-17=-638/105 9-17=-30/1198

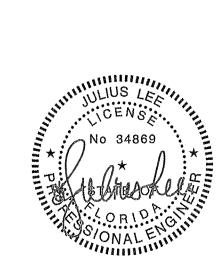
NOTES

WEBS

1) Unbalanced roof live loads have been considered for this design

- Wind ASCE 7-22 Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf, BCDL=6 0psf; h=15ft, B=45ft, L=58ft, eave=7ft; Cat II, Exp B, Enclosed, MWFRS (directional) and C-C Zone3 -2-0-0 to 3-9-10 Zone1 3-9-10 to 15-0-0, Zone2 15-0-0 to 23-2-7 Zone1 23-2-7 to 43-0-0, Zone2 43-0-0 to 51-2-7, Zone1 51-2-7 to 60-0-0 zone cantilever left and right exposed end vertical left and right exposed, porch left and right exposed,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members with BCDL = 10 0psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 2, 86 lb uplift at joint 21, 58 lb uplift at joint 15 and 128 lb uplift at joint 12
- 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

LOAD CASE(S) Standard



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

April 25,2025

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 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 properly 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)



Job Truss Truss Type Qty Ply MIKE TODD GERKE RESIDENCE

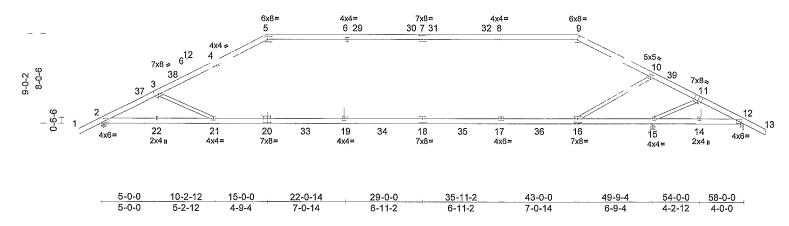
0425-043 A05A 1 1 1 Job Reference (optional)

Mayo Truss Company Inc. Mayo FL 32066,

Run 8 83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries Inc. Fri Apr 25 08 11 49 ID:6BZnHgr7lk_u5VSIlv_INgzNScQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page 1





Scale = 1 104

Plate Offsets (X Y) [3 0-4-0,0-4-8], [5 0-5-4,0-3-0], [7 0-4-0 0-4-8], [9 0-5-4,0-3-0] [11 0-4-0 0-4-8] [16 0-4-0 0-4-8], [18 0-4-0 0-4-8], [20 0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 36	Vert(LL)	-0 23	18-19	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 62	Vert(CT)	-0 42	18-19	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0 84	Horz(CT)	0 12	15	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS		` ,					Weight 455 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No 2 BOT CHORD 2x6 SP No 2 WEBS 2x4 SP No 2

WEBS BRACING

TOP CHORD Structural wood sheathing directly applied Rigid ceiling directly applied WEBS 1 Row at midpt 9-16 6-18, 8-17

REACTIONS (size) 2=0-5-8 12=0-3-8, 15=0-5-8

Max Horiz 2=164 (LC 11)

Max Horiz 2=164 (LC 11)

Max Uplift 2=-48 (LC 12) 12=-388 (LC 25),

15=-54 (LC 12) Max Grav 2=2297 (LC 17) 12=-69 (LC 24)

15=3363 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 5-6=-3430/184, 6-8=-3237/178,

8-9=-2513/171, 1-2=0/54, 2-4=-4266/160,

4-5=-3400/179, 9-10=-1402/119, 10-12=-27/1486 12-13=0/54

2-22=-37/3877, 21-22=-38/3874,

19-21=-2/3493, 17-19=0/3487

15-17=-1250/1176, 14-15=-1018/3

12-14=-1016/50

5-20=0/733, 9-16=-1219/101,

10-16=-20/2849 10-15=-3013/158

6-19=-386/102, 5-19=-21/776 6-18=-287/25 7-18=-403/84, 8-18=-26/1093

8-17=-1173/125 9-17=-57/2021 11-15=-346/136 11-14=-65/136, 4-20=-644/87, 3-22=0/172 3-21=-425/40,

4-21=0/364

NOTES

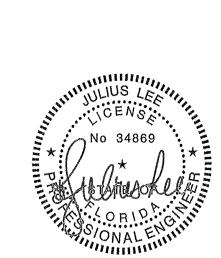
BOT CHORD

WEBS

 Unbalanced roof live loads have been considered for this design

- 2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf; BCDL=6 0psf; h=15ft; B=45ft; L=58ft; eave=7ft; Cat II, Exp B, Enclosed, MWFRS (directional) and C-C Zone3 -2-0-0 to 3-9-10, Zone1 3-9-10 to 15-0-0, Zone2 15-0-0 to 23-2-7 Zone1 23-2-7 to 43-0-0, Zone2 43-0-0 to 51-2-7, Zone1 51-2-7 to 60-0-0 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
- 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) Provide adequate drainage to prevent water ponding
- This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
- 6) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members with BCDL = 10 0psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 15, 48 lb uplift at joint 2 and 388 lb uplift at joint 12
- 8) 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

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MTTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd Chesterfield, MO 63017 Date:

April 25,2025

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 BEFORE USE

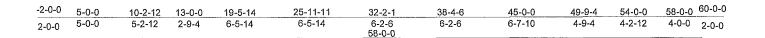
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown and is for an individual building component not
a truss system Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall
building 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. ANSITH 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)

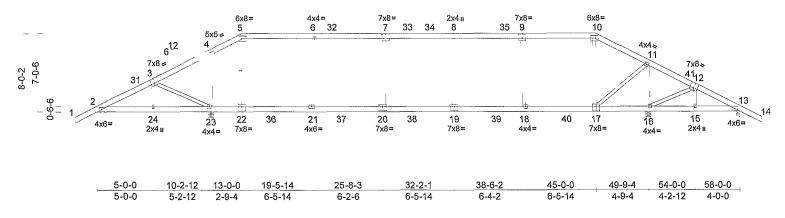


Ply Job Truss Truss Type Qty MIKE TODD - GERKE RESIDENCE T37134685 0425-043 A06 Hip 1 Job Reference (optional)

Mayo Truss Company Inc. Mayo FL 32066

Run 8 83 S Apr 11 2025 Print, 8,830 S Apr 11 2025 MiTek Industries Inc Fri Apr 25 08 11.50 ID-uVNaYwi0fbSUlBqdrtCq9zzNRNs-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page 1





Scale = 1 103.9

Plate Offsets (X, Y) [3 0-4-0,0-4-8], [5 0-5-4,0-3-0] [7 0-4-0 0-4-8], [9 0-4-0 0-4-8], [10 0-5-4 0-3-0], [12 0-4-0 0-4-8], [17 0-4-0,0-4-8] [19 0-4-0,0-4-8], [20 0-4-0,0-4-8], [22 0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 23	Vert(LL)	-0 13	19-20	>999	240	MT20	244/190
TCDL ,	10 0	Lumber DOL	1 25	BC	0 37	Vert(CT)	-0 23	19-20	>999	180	ļ	
BCLL	00*	Rep Stress Incr	YES	WB	0 97	Horz(CT)	0 03	16	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS		ļ					Weight 458 lb	FT = 20%

LUMBER TOP CHORD

2x6 SP No 2 **BOT CHORD** 2x6 SP No 2

2x4 SP No 2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied

Rigid ceiling directly applied **BOT CHORD** 1 Row at midpt 5-22 WEBS

REACTIONS (size) 2=0-3-8, 13=0-3-8, 16=0-5-8

23=0-5-8

Max Horiz 2=145 (LC 11)

2=-138 (LC 12) 13=-164 (LC 23) Max Uplift

16=-60 (LC 12) 23=-84 (LC 12)

2=191 (LC 23), 13=69 (LC 24) 16=2571 (LC 18), 23=2647 (LC 17) Max Grav

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

BOT CHORD

1-2=0/54, 2-4=-12/916, 4-5=-205/74

5-6=-1411/112, 6-8=-2139/117,

8-10=-2139/125 10-11=-772/91

11-13=-19/976, 13-14=0/54 2-24=-428/35, 23-24=-430/0,

21-23=-754/155, 18-21=0/2060,

16-18=-842/635 15-16=-576/0

13-15=-573/45

4-22=0/1796 5-22=-1425/76,

10-17=-1030/77, 11-17=-1/1900,

11-16=-2255/108 6-21=-1015/113

5-21=-50/1807 6-20=-18/915, 7-20=-461/89 7-19=-10/121, 8-19=-359/77, 9-19=-7/627

9-18=-822/103, 10-18=-36/1502

12-16=-374/150, 12-15=-53/151, 3-24=-58/199, 3-23=-483/198, 4-23=-2284/79

NOTES

WEBS

Unbalanced roof live loads have been considered for this design

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf; BCDL=6 0psf; h=15ft, B=45ft, L=58ft, eave=7ft Cat. II, Exp B Enclosed, MWFRS (directional) and C-C Zone3 -2-0-0 to 3-9-10 Zone1 3-9-10 to 13-0-0 Zone2 13-0-0 to 21-2-7, Zone1 21-2-7 to 45-0-0, Zone2 45-0-0 to 53-2-7, Zone1 53-2-7 to 60-0-0 zone, cantilever left and right exposed end vertical left and right exposed porch left and right exposed,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
- Provide adequate drainage to prevent water ponding
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members with BCDL = 10 0psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 2, 60 lb uplift at joint 16, 84 lb uplift at joint 23 and 164 lb uplift at joint 13
- 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

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

April 25,2025

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL7473 rev 1/2/2023 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 properly damage. For general guidance regarding the fabrication storage, delivery erection and bracing of trusses and truss systems, see ANSI/TPI1 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)



 Job
 Truss
 Truss Type
 Qty
 Ply
 MIKE TODD - GERKE RESIDENCE

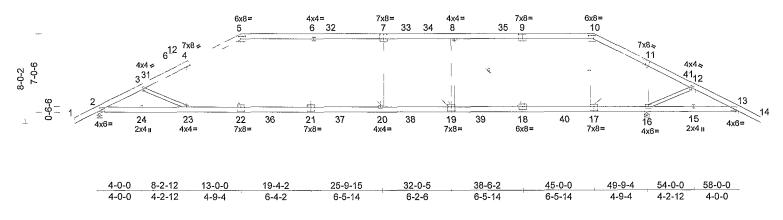
 0425-043
 A06A
 1
 1
 Job Reference (optional)

Mayo Truss Company Inc Mayo FL 32066

Run 8 83 S Apr 11 2025 Print 8 830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 25 08 11 50 ID DTojaTAxwFJGkitk_c9NVAzNSov-RIC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page 1

-2-0-0	4-0-0	8-2-12	13-0-0	19-5-14	25-11-11	32-2-1	38-6-2	45-0-0	49-9-4	54-0-0	58-0-0 60-0-0
		4-2-12		6-5-14	6-5-14	6-2-6 58-0-0	6-4-2	6-5-14	4-9-4	4-2-12	4-0-0 2-0-0



Scale = 1 103 9

Plate Offsets (X, Y) [4 0-4-0 0-4-8] [5 0-5-4,0-3-0] [7 0-4-0 0-4-8] [9 0-4-0,0-4-8], [10 0-5-8,0-3-0], [11 0-3-12,0-4-8], [17 0-4-0,0-4-8], [19 0-4-0,0-4-8] [21 0-4-0,0-4-8] [22 0-4-0 0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 39	Vert(LL)	-0 26	20-21	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 61	Vert(CT)	-0 47	20-21	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 92	Horz(CT)	0 13	16	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS							Weight 455 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No 2 BOT CHORD 2x6 SP No 2

WEBS 2x4 SP No 2

BRACING
TOP CHORD Structural wood sheathing directly applied

BOT CHORD WEBS

WEBS

Rigid ceiling directly applied
1 Row at midpt 10-17 7-19 8-18

REACTIONS (size) 2=0-5-8, 13=0-3-8 16=0-5-8 Max Horiz 2=-145 (LC 10)

Max Horiz 2=-145 (LC 10) Max Uplift 2=-48 (LC 12) 13=-653 (LC 25),

16=-57 (LC 12) Max Grav 2=2248 (LC 17), 13=-128 (LC 12)

16=3662 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/54, 2-3=-4153/118, 3-5=-3907/159 5-6=-3682/172, 6-8=-3711/62

8-10=-2124/141, 10-12=-586/2085, 12-13=-9/1758 13-14=0/54

BOT CHORD 2-24=-37/3765, 23-24=-37/3765, 20-23=-11/3740, 18-20=0/3756,

16-18=-1759/457 15-16=-1503/17,

13-15=-1503/58 5-22=0/615, 10-17=-1749/97,

5-22-0/615, 10-17--1749/97, 11-17=-33/2960, 11-16=-3314/136 12-16=-413/153 4-22=-565/81

6-21=-518/96, 5-21=-22/984 6-20=-15/151, 7-20=0/265, 7-19=-747/28, 8-19=0/810 8-18=-1562/36 9-18=-408/112 10-18=-64/2407, 12-15=-53/157, 3-24=-2/103, 3-23=-236/29 4-23=0/276

NOTES

 Unbalanced roof live loads have been considered for this design

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf; BCDL=6 0psf; h=15ft, B=45ft, L=58ft, eave=7ft; Cat II, Exp B, Enclosed, MWFRS (directional) and C-C Zone3 -2-0-0 to 4-0-0, Zone1 4-0-0 to 13-0-0, Zone2 13-0-0 to 21-2-7, Zone1 21-2-7 to 45-0-0, Zone2 45-0-0 to 53-2-7, Zone1 53-2-7 to 60-0-0 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
- 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) Provide adequate drainage to prevent water ponding
- This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
- 6) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10 0psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 653 lb uplift at joint 13 57 lb uplift at joint 16 and 48 lb uplift at joint 2
- 3) 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

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MITCH Inc. DBA MITCH USA FL Cert 6634 16023 Swingley Ridge Rd Chesterfield, MO 63017 Date:

April 25,2025

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 BEFORE USE

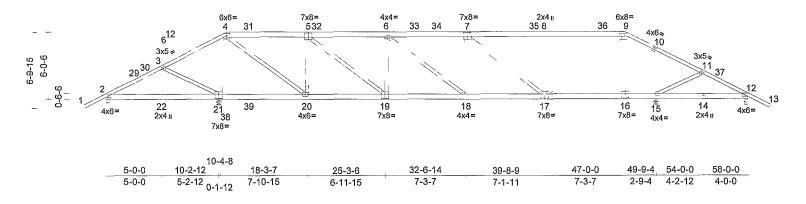
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown and is for an individual building component, not
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall
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/TPI 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)



Mayo Truss Company Inc. Mayo FL - 32066

Run 8 83 S Apr 11 2025 Print. 8 830 S Apr 11 2025 MiTek Industries Inc. Fri Apr 25 08 11 51 ID:ZkvOjGVMNzkjAtpx0VTSbozNRTH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-2-0-0	5-0-0	11-0-0	18-5-3	25-5-2	32-8-10	39-8-9	47-0-0	49-9-4	54-0-0	58-0-0 60-0-0
2-0-0	5-0-0	6-0-0	7-5-3	6-11-15	7-3-7 58-0-0	6-11-15	7-3-7	2-9-4	4-2-12	4-0-0 2-0-0



Scale = 1 103.8

Plate Offsets (X Y) [4 0-3-0 0-2-7], [5 0-4-0,0-4-8], [7 0-4-0,0-4-8], [9 0-2-0 0-3-4] [16 0-4-0,0-4-8], [17 0-4-0,0-4-8] [19 0-4-0,0-4-8], [21 0-4-0 0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 49	Vert(LL)	-0 13	18-19	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 40	Vert(CT)	-0 25	18-19	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0 68	Horz(CT)	0 02	15	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS							Weight. 407 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No 2 *Except* 1-4 9-13 2x4 SP No 2 BOT CHORD 2x6 SP No 2

WEBS 2x4 SP No 2

BRACING

TOP CHORD Structural wood sheathing directly applied BOT CHORD Rigid ceiling directly applied WEBS 1 Row at midpt 7-17, 4-21

REACTIONS (size) 2=0-3-8, 12=0-3-8 15=0-5-8,

21=0-5-8

Max Horiz 2=125 (LC 11)

2=-251 (LC 24) 12=-240 (LC 23) Max Uplift

15=-71 (LC 12), 21=-79 (LC 12)

Max Grav 2=12 (LC 23) 12=-9 (LC 1),

15=2493 (LC 18) 21=2760 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/54, 2-3=-60/826 3-4=-16/1277,

4-6=-1985/88 6-8=-2159/101,

8-9=-1552/103, 9-10=-111/55,

10-11=-28/1081, 11-12=-68/748 12-13=0/54

BOT CHORD 2-22=-722/93, 20-22=-771/131,

18-20=0/1999, 15-18=-946/2158

14-15=-645/14 12-14=-645/114

3-22=-73/201, 3-21=-520/240 9-16=-1332/88, 10-15=-2188/73

5-20=-1147/122, 6-19=-540/96, 5-19=-22/1154 7-18=0/195, 8-17=-476/126

7-17=-777/16, 9-17=-54/1867

11-14=-47/178 10-16=-8/1780 11-15=-407/165, 4-20=-38/2259

6-18=-6/207 4-21=-2283/122

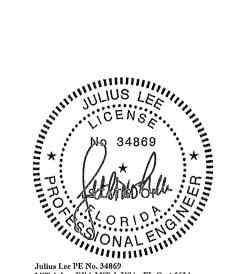
NOTES

WEBS

Unbalanced roof live loads have been considered for 1) this design

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf; BCDL=6 0psf; h=15ft, B=45ft, L=58ft, eave=7ft, Cat. II Exp B Enclosed MWFRS (directional) and C-C Zone3 -2-0-0 to 3-9-10, Zone1 3-9-10 to 11-0-0, Zone2 11-0-0 to 19-2-7, Zone1 19-2-7 to 47-0-0, Zone2 47-0-0 to 55-2-7, Zone1 55-2-7 to 60-0-0 zone, cantilever left and right exposed end vertical left and right exposed porch left and right exposed.C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL≈1 60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10 0psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 251 lb uplift at joint 2, 79 lb uplift at joint 21, 71 lb uplift at joint 15 and 240 lb uplift at joint 12
- 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

LOAD CASE(S) Standard



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

April 25,2025

Page 1

MARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 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 overal 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 guidence regarding the fabrication, storage delivery erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria and DSS-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)



Job Truss Truss Type Qty Ply MIKE TODD - GERKE RESIDENCE Job Reference (optional)

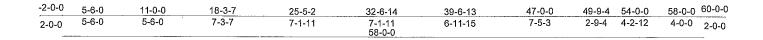
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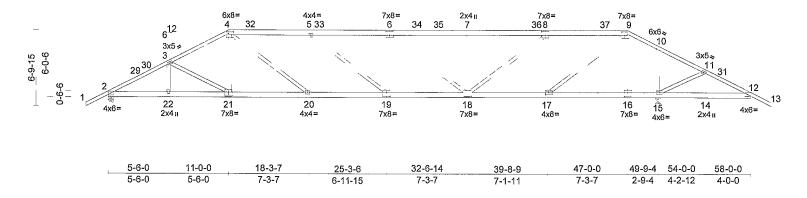
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Mayo Truss Company Inc. Mayo FL 32066,

Run 8 83 S Apr 11 2025 Print: 8 830 S Apr 11 2025 MiTek Industries Inc. Fri Apr 25 08 11 51 ID LSowOEznnKN5ukylKNul6ozNSrl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7J4zJC?f

Page 1





Scale = 1 103 8

Plate Offsets (X, Y) [4 0-1-12,0-3-4], [6 0-4-0 0-4-8], [8 0-4-0 0-4-8], [8 0-4-0 0-4-8], [8 0-4-0 0-4-8], [9 0-2-12 0-4-0], [16 0-3-12 0-4-8], [17 0-3-8,0-2-0], [18 0-4-0,0-4-8], [19 0-4-0,0-4-8], [21 0-4-0,0-4-8], [19 0-4-0,0-

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 59	Vert(LL)	-0 27	19-20	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 63	Vert(CT)	-0 55	19-20	>999	180		
BCLL	00*	Rep Stress Incr	YES	WB	0 97	Horz(CT)	0 11	15	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS		(,					Weight 407 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No 2 *Except* 1-4 9-13 2x4 SP No 2 BOT CHORD 2x6 SP No 2

2x4 SP No 2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied BOT CHORD Rigid ceiling directly applied WEBS 1 Row at midpt 9-16, 6-18

REACTIONS (size) 2=0-5-8, 12=0-3-8 15=0-5-8

Max Horiz 2=-125 (LC 10)

Max Uplift 2=-47 (LC 12), 12=-786 (LC 23) 15=-62 (LC 12)

2=1946 (LC 23), 12=-125 (LC 12) Max Grav

15=3490 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/54, 2-3=-3425/125, 3-4=-3116/137,

9-10=0/549, 10-11=-47/2183,

11-12=-75/1850, 12-13=0/54, 4-5=-3622/167,

5-7=-3711/144 7-9=-3076/131

2-22=-30/2998 20-22=-30/2998

BOT CHORD 17-20=0/3707 15-17=-1905/151,

14-15=-1628/26, 12-14=-1628/120

3-22=-11/127, 3-21=-332/81, 4-21=0/406,

9-16=-2174/108 10-16=-30/2650 10-15=-3150/96 5-20=-623/107

4-20=-31/1237 5-19=0/199 6-19=0/229 6-18=-807/36 7-18=-403/86, 8-18=-34/1678

8-17=-1537/138 9-17=-81/2754

11-15=-434/166 11-14=-48/208

NOTES

WEBS

1) Unbalanced roof live loads have been considered for this design

- Wind ASCE 7-22 Vult=130mph (3-second gust) Vasd=101mph TCDL=6 0psf BCDL=6 0psf, h=15ft, B=45ft, L=58ft, eave=7ft, Cat II, Exp B Enclosed, MWFRS (directional) and C-C Zone3 -2-0-0 to 3-9-10 Zone1 3-9-10 to 11-0-0, Zone2 11-0-0 to 19-2-7, Zone1 19-2-7 to 47-0-0 Zone2 47-0-0 to 55-2-7, Zone1 55-2-7 to 60-0-0 zone, cantilever left and right exposed, end vertical left and right exposed, porch right exposed C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 2, 62 lb uplift at joint 15 and 786 lb uplift at joint 12
- 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

LOAD CASE(S) Standard



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

April 25,2025

MARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 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 properly 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)



Job Truss Truss Type Qty Ply MIKE TODD - GERKE RESIDENCE T37134689 0425-043 80A 1 1 Job Reference (optional) Mayo Truss Company Inc. Mayo FL - 32066 Run 8 83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 25 08 11 51 Page 1 ID Zs8Og4XAw?4u_sT8?O6J_KzNRZh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -2-0-0 10-3-12 58-0-0 60-0-0 9-0-0 4-0-0 15-9-3 22-6-5 29-0-0 35-9-3 49-0-0 54-0-0 42-2-13 2-0-0 4-0-0 5-0-0 6 - 9 - 36-5-11 6-9-3 6-5-11 6-9-3 5-0-0 4-0-0 2-0-0 1-3-12 58-0-0 4x6= 6x6 ≠ 4x4= 7x8= 4x4= 7x8= 2x4 n 6x6= 6^{1,2} 5 30 6 3 32 8 33 11 3x5 = 3x5≼ 12 23 22 21 20 18 4x4= 17 7x8= 19 15 4x6= 16 4x6= 7x8= 7x8= 2x4 II 4x8= 4x4= 54-0-0 <u>10-2-12</u> 10-3-12 49-9-4 4-0-0 35-7-7 22-4-9 28-10-4 42-2-13 49-7-8 58-0-0 0-1-0 5-3-11 4-0-0 6-2-12 6-9-3 6-5-11 6-9-3 6-7-7 7-4-10 4-0-0 0 - 1 - 124-2-12 Scale = 1 103 8 Plate Offsets (X Y) [40-3-0,0-0-11] [70-4-00-4-8] [90-4-00-4-8] [110-3-00-2-7] [170-4-0,0-4-8], [190-4-0,0-4-8], [210-4-00-4-8]

 LUMBER

 TOP CHORD
 2x6 SP No 2 *Except* 1-4,11-14 2x4 SP No 2

 BOT CHORD
 2x6 SP No 2

(psf)

200

100

100

00'

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

WEBS 2x4 SP No 2 BRACING

Loading

TCDL

BCLL

BCDL

WEBS

TCLL (roof)

TOP CHORD Structural wood sheathing directly applied BOT CHORD Rigid ceiling directly applied

REACTIONS (size) 2=0-3-8 13=0-3-8 16=0-5-8, 22=0-5-8

1 Row at midpt

Max Horiz 2=-106 (LC 10) Max Uplift 2=-447 (LC 24) 13=-443 (LC 23)

9-17

16=-68 (LC 12) 22=-77 (LC 12) Max Grav 2=-119 (LC 16) 13=-115 (LC 9)

2-0-0

1 25

1 25

YES

FBC2023/TPI2014

16=2554 (LC 24), 22=2745 (LC 23)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-3=-49/1153 3-4=-6/1553,

1-2=0/54, 2-3=-49/1153 3-4=-6/1553, 4-5=0/1535, 5-6=-209/55 6-8=-2066/73, 8-10=-1844/78 10-11=-876/76

8-10=-1844/78 10-11=-876/76 11-12=-33/1495, 12-13=-64/1158 13-14=0/54

BOT CHORD 2-23=-1009/89, 22-23=-1009/0 20-22=-1450/250 18-20=0/2074 16-18=-967/1834 15-16=-1014/0

13-15=-1014/110 3-22=-516/221, 3-23=-61/235

3-22=-516/221, 3-23=-61/235 11-16=-2234/122 12-16=-420/204, 12-15=-64/164, 6-21=-1280/108 5-21=-33/2123, 6-20=-23/1599

7-20=-774/91, 7-19=-10/637 8-19=-244/87 8-18=-289/10, 9-18=0/378, 9-17=-1205/23, 10-17=-434/116, 11-17=-47/2194,

5-22=-1589/79 4-22=-904/64

NOTES

WEBS

 Unbalanced roof live loads have been considered for this design) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf; BCDL=6 0psf; h=15ft, B=45ft L=58ft, eave=7ft, Cat. II, Exp B, Enclosed, MWFRS (directional) and C-C Zone3 -2-0-0 to 4-0-0, Zone1 4-0-0 to 9-0-0, Zone2 9-0-0 to 17-2-7, Zone1 17-2-7 to 49-0-0, Zone2 49-0-0 to 57-6-0 Zone1 57-6-0 to 60-0-0 zone, cantilever left and right exposed, end vertical left and right exposed, porch left and right exposed C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

0.49

0 34

0 79

I/defl

>999

>999

n/a n/a

in (loc)

18-19

18-19

16

-0.13

-0 25

0 01

L/d

240

180

PLATES

MT20

GRIP

Weight 403 lb FT = 20%

244/190

CSI

TC

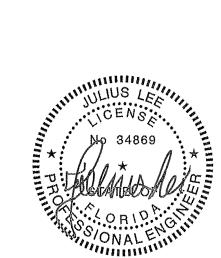
BC

WB

Matrix-AS

- 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) Provide adequate drainage to prevent water ponding
- 5) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
- 6) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 443 lb uplift at joint 13 77 lb uplift at joint 22 68 lb uplift at joint 16 and 447 lb uplift at joint 2
- 8) 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

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd Chesterfield, MO 63017

April 25,2025

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 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. ANSTP1T 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)



Job Truss Truss Type Qty Ply MIKE TODD - GERKE RESIDENCE T37134690 0425-043 A08A 1 1 Job Reference (optional) Mayo Truss Company Inc. Mayo FL 32066 Run 8 83 S Apr 11 2025 Print 8 830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 25 08 11 52 Page 1 <u>58-0-0</u> 60-0-0 -2-0-0 4-0-0 9-0-0 15-9-3 22-6-5 29-0-0 35-9-3 42-2-13 49-0-0 54-0-0 2-0-0 4-0-0 5-0-0 6-9-3 6-9-3 6-5-11 6-9-3 6-5-11 6-9-3 5-0-0 4-0-0 2-0-0 6x8= 4x4= 7x8= 4x4= 7x8= 2x4 II 6x6= 6¹² 30 5 6 32 7 33 31 8 34 9 35 10 3x5 a 3x5 5-9-15 12 A 15 22 21 4x4= 20 19 18 7x8≃ 17 4x4= 16 14 4x6= 4x6= 2x4 ii 7x8= 4x4= 8x8= 2x4 ii 49-9-4 4-0-0 9-1-12 22-4-9 28-10-4 35-7-7 42-2-13 49-7-8 15-7-7 58-0-0 0-1-12 4-2-12 4-0-0 5-1-12 6-5-11 6-9-3 6-5-11 6-9-3 6-7-7 7-4-10 4-0-0 Scale = 1 103.8 Plate Offsets (X Y) [4 0-1-12 0-3-4] [6 0-4-0 0-4-8], [8 0-4-0,0-4-8], [10 0-3-8,0-2-4], [16 0-3-8 0-4-8], [18 0-4-0,0-4-8], [20 0-4-0,0-4-8] Loading (psf) Spacing 2-0-0 CSI DEFL I/defI L/d **PLATES** GRIP in (loc) TCLL (roof) 200 Plate Grip DOL 1 25 Vert(LL) >999 TC 18-19 240 0 41 -0 41 MT20 244/190

BCDL LUMBER

TCDL

BCLL

TOP CHORD 2x6 SP No 2 *Except* 1-4,10-13 2x4 SP No 2 **BOT CHORD** 2x6 SP No 2

10.0

100

0.0

Lumber DOL

Code

Rep Stress Incr

1 25

YES

FBC2023/TPI2014

WEBS 2x4 SP No 2

BRACING TOP CHORD

BOT CHORD

Structural wood sheathing directly applied **BOT CHORD** Rigid ceiling directly applied **WEBS** 1 Row at midpt 7-17, 8-16

REACTIONS 2=0-5-8 12=0-3-8, 15=0-5-8 (size) Max Horiz 2=-106 (LC 10)

Max Uplift 2=-26 (LC 12), 12=REL, 15=-209 (LC 12)

Max Grav 2=2073 (LC 23), 15=2850 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/54 2-3=-3649/55 3-4=-3534/91,

4-5=-4546/105 5-7=-5180/59 7-9=-4123/0, 9-10=-2458/0. 10-11=-385/1025.

11-12=-259/636 12-13=0/54 2-22=0/3213 21-22=0/3213, 19-21=0/4572, 17-19=0/5189 15-17=-508/4099,

14-15=-516/298, 12-14=-516/298

4-21=0/326, 4-20=-8/1744, 10-16=-116/3106 5-20=-884/87, 5-19=0/739, 6-19=-285/55, 6-18=-253/59, 7-18=0/363, 7-17=-1184/70, 8-17=0/812, 8-16=-2091/82 9-16=-445/114

11-15=-379/221 11-14=-75/136, 3-21=-151/73 3-22=-117/68

10-15=-2536/324

NOTES

WEBS

Unbalanced roof live loads have been considered for this design

Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf; BCDL=6 0psf h=15ft, B=45ft, L=58ft, eave=7ft, Cat II, Exp B, Enclosed MWFRS (directional) and C-C Zone3 -2-0-0 to 4-0-0, Zone1 4-0-0 to 9-0-0 Zone2 9-0-0 to 17-2-7 Zone1 17-2-7 to 49-0-0, Zone2 49-0-0 to 57-6-0 Zone1 57-6-0 to 60-0-0 zone, cantilever left and right exposed, end vertical left and right exposed, porch right exposed C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60

0.81

0.90

Vert(CT)

Horz(CT)

-080

0 18

18-19

15

>745

n/a n/a

180

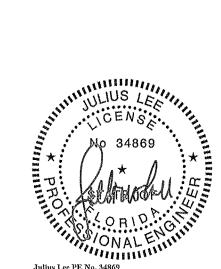
BC

WB

Matrix-AS

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
- Provide adequate drainage to prevent water ponding
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 2 and 209 lb uplift at joint 15
- "\" indicates Released bearing allow for upward movement at joint(s) 12
- 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

LOAD CASE(S) Standard



Weight: 397 lb FT = 20%

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

April 25,2025

Chesterfield MO 63017 314,434 1200 / MiTek-US com

Job Truss Qty Ply Truss Type MIKE TODD - GERKE RESIDENCE T37134691 0425-043 2 A09 1 Job Reference (optional) Mayo Truss Company Inc. Mayo FL 32066, Run, 8 83 S. Apr. 11 2025 Print, 8 830 S. Apr. 11 2025 MiTek Industries, Inc. Fri Apr. 25 08 11 54 Page 1 ID LvcrpEvV9kwh6hBLwwLtFhzNRm6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 54-0-0 51-0-0 58-0-0 60-0-0 -2-0-0 4-0-0 7-0-0 10-2-12 15-10-9 21-6-5 27-3-14 44-1-7 49-9-4 32-9-14 38-3-15 4-0-0 3-0-0 3-2-12 5-7-13 5-7-13 5-9-9 5-6-1 5-6-1 5-9-9 5-7-13 4-0-0 2-0-0 1-2-12 3-0-0 58-0-0 NAILEDAILED NAILEDAILED NAILERAILENAILERAILED 4x4= 7x8= NAILENAILENAILENAILENAILED6x8= NAII FD NAILENAILENAILENAILENAILEN 6¹² 2x4 II 9 6x8= 4x8= 7x8= 7x8= 51 50 10 4x6= 39 6 40 42 43 845464748 49 53 1154 3x5 -3x5 15 A 69 21 / NAILED .16 4x4= 7x8= NAILED 4x8= NAILED 24 HJC2NAILEDAILED NAILEDAILED 7x8= 28 23 64 65 66 67 22 68 72 20 74 75 19 18 17 446= 4x6= 73 _{NAILED} 2x4 II NAILED 4x4 NAILED AILED AILED AILED 4 ED 4x4= NAILED _{4x4=} HJC26 ED 7x8≡ NAILEDAILED 7x8= NAILEBAILED NAILED 15-10-9 54-0-0 10-2-12 50-10-4 4-0-0 7-1-12 10-1-0 21-4-9 27-2-2 32-9-14 38-5-11 44-3-3 49-9-4 58-0-0 4-0-0 3-1-12 2-11-4 5-7-13 5-6-1 5-9-9 5-7-13 5-6-1 4-0-0 1-1-0 0-1-12 Scale = 1 103 8 $[4\ 0-2-12\ 0-3-0], [5\ 0-3-8,0-2-0], [6\ 0-4-0\ 0-4-8], [8\ 0-4-0\ 0-4-8], [10\ 0-4-0,0-4-8], [13\ 0-2-12\ 0-3-4], [20\ 0-4-0\ 0-4-8], [22\ 0-4-0\ 0-4-8], [24\ 0-4-0,0-4-8], [25\ 0-3-8,0-2-0], [20\ 0-4-0\ 0-4-8], [20\ 0-4-0$ Plate Offsets (X, Y) [26 0-4-0 0-4-8] Loading 2-0-0 CSI DEFL 1/defl **GRIP** (psf) Spacing (loc) L/d **PLATES** TCLL (roof) 200 Plate Grip DOL 1 25 TC Vert(LL) -0 26 22-23 >999 240 244/190 MT20 TCDL 100 1 25 Lumber DOL BC 0.75 Vert(CT) -0.5222-23 >917 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.61 Horz(CT) 0 08 19 n/a n/a BCDL FBC2023/TPI2014 100 Matrix-MS Weight, 812 lb FT = 20% LUMBER WEBS 4-27=-154/668, 4-26=-1606/399, This truss has been designed for a 10 0 psf bottom TOP CHORD 2x6 SP No 2 *Except* 1-4,13-16 2x4 SP No 2 5-26=-3481/171, 12-19=-3431/162 chord live load nonconcurrent with any other live loads BOT CHORD 2x6 SP No 2 13-19=-734/283, 13-18=-192/437, * This truss has been designed for a live load of 20 0psf 2x4 SP No 2 12-20=-52/5164, 6-25=-2707/213, WEBS on the bottom chord in all areas where a rectangle 5-25=-103/5423 6-24=-86/3696, 3-06-00 tall by 2-00-00 wide will fit between the bottom BRACING 7-24=-1759/187 7-23=-52/2000, chord and any other members TOP CHORD Structural wood sheathing directly applied or 8-23=-794/177 8-22=-49/169, Provide mechanical connection (by others) of truss to 5-4-11 oc purlins 9-22=-662/156, 10-22=0/1747 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc 10-21=-1642/162, 11-21=-36/3618, 26 and 379 lb uplift at joint 19 bracing 10) 'A" indicates Released bearing allow for upward 11-20=-2625/186, 3-27=-387/91 REACTIONS (size) 2=0-3-8, 15=0-3-8, 19=0-5-8, 3-28=-23/217, 14-18=-389/105, movement at joint(s) 2, 15 26=0-5-8 14-17=-39/223 11) Use MiTek HJC26 (With 16-16d nails into Girder & 10d Max Horiz 2=-87 (LC 6) NOTES 2=REL 15=REL, 19=-379 (LC 8) Max Uplift 2-ply truss to be connected together with 10d 26=-443 (LC 8) truss(es) to front face of bottom chord (0 131"x3") nails as follows Max Grav 19=4810 (LC 20), 26=5254 (LC 19) Top chords connected as follows 2x4 - 1 row at 0-9-0 12) Fill all nail holes where hanger is in contact with lumber **FORCES** (lb) - Maximum Compression/Maximum 13) NAILED" indicates 3-10d (0 148"x3") or 3-12d oc, 2x6 - 2 rows staggered at 0-9-0 oc Bottom chords connected as follows 2x6 - 2 rows TOP CHORD 1-2=0/54, 2-3=-197/620, 3-4=-229/949, 4-5=-435/1841, 5-7=-6422/0, 7-9=-7993/0

- staggered at 0-9-0 oc Web connected as follows 2x4 - 1 row at 0-9-0 oc
- All loads are considered equally applied to all plies except if noted as front (F) or back (B) face in the LOAD CASE(S) section Ply to ply connections have been provided to distribute only loads noted as (F) or (B) unless otherwise indicated
- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph TCDL=6 0psf; BCDL=6 0psf, h=15ft, B=45ft L=58ft, eave=7ft, Cat. II, Exp B Enclosed, MWFRS (directional) cantilever left and right exposed, end vertical left and right exposed porch left and right exposed, Lumber DOL=1 60 plate grip DOL=1 60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
- Provide adequate drainage to prevent water ponding

- bearing plate capable of withstanding 443 lb uplift at joint
- nails into Truss) or equivalent spaced at 43-11-4 oc max starting at 7-0-6 from the left end to 50-11-10 to connect

13) NAILED" indicates 3-10d (0 148"x3") or 3-12d (0 148"x3 25") toe-nails per N33 pyridlines

LOAD CASE(S) Standard

1) Dead + Roof Live (ball-hobed), Lumber Increase=1 25, Plate Increase=1 25

Uniform Loads (lb/fi)

A 34869

Julius Lee PE No. 34869 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd Chesterfield, MO 63017

April 25,2025

BOT CHORD

9-11=-7991/0, 11-12=-3677/0,

14-15=-198/618, 15-16=0/54

2-28=-509/230, 27-28=-509/230,

25-27=-1702/547, 23-25=0/6489,

21-23=0/8020, 19-21=-1049/3779,

18-19=-815/304, 17-18=-508/231

15-17=-508/231

12-13=-273/1037, 13-14=-239/964,

Continued on page 2
WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 BEFORE USE Design valid for use only with MiTck® 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 properly damage. For general guidance regarding the fabrication storage delivery erection and bracing of trusses and truss systems, see ANS/ITP1 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)



Job Truss Truss Type Qty Ply MIKE TODD - GERKE RESIDENCE T37134691 0425-043 A09 2 1 Job Reference (optional)

Mayo Truss Company Inc. Mayo FL 32066

ID LvcrpEvV9kwh6hBLwwLtFhzNRm6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page 2 Run 8 83 S Apr 11 2025 Print 8 830 S Apr 11 2025 MiTek Industries Inc. Fri Apr 25 08 11 54

Vert 1-4=-60 4-13=-60, 13-16=-60 29-32=-20 Concentrated Loads (lb) Vert 4=-124 (F), 27=-460 (F), 18=-640 (F), 23=-56 Vert 4=-124 (F), 27=-460 (F), 18=-640 (F), 23=-56 (F) 8=-124 (F) 22=-56 (F), 9=-124 (F), 37=-124 (F), 38=-124 (F) 39=-124 (F), 40=-124 (F), 41=-124 (F), 42=-124 (F), 43=-124 (F), 50=-124 (F), 51=-124 (F), 52=-124 (F), 53=-124 (F), 54=-124 (F), 55=-124 (F), 55=-124 (F), 55=-124 (F), 55=-124 (F), 56=-124 (F), 57=-237 (F), 58=-56 (F), 59=-56 (F), 60=-56 (F), 61=-56 (F), 62=-56 (F), 67=-56 (F), 68=-56 (F), 69=-56 (F), 70=-56 (F), 71=-56 (F), 72=-56 (F), 73=-56 (F), 73=-56 (F), 75=-56 (

Job Truss Truss Type Qty Ply MIKE TODD - GERKE RESIDENCE T37134692 0425-043 A09A 3 1 Job Reference (optional) Mayo Truss Company Inc. Mayo FL 32066 Run 8 83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 25 08 11 56 Page 1 ID 1xdJjUCCFBEj320gNuDWcqzNTPc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 54-0-0 -2-0-0 51-0-0 58-0-0 60-0-0 4-0-0 7-0-0 12-5-11 17-11-6 23-1-9 28-5-8 49-9-4 33-11-3 39-1-6 44-7-1 4-0-0 3-0-0 5-5-11 5-3-15 5-5-11 5-2-35-5-11 5-2-3 5-5-11 5-2-3 4-0-0 2-0-0 1-2-12 3-0-0 58-0-0 NAILED NAILED 6¹² 6x8= 7x8= 4x4≃ 7 7x8= 5x5= 54 11 37 538 39 406 41 43 4445464748 49 9 50 3x5 = 3x5. 15 A 72 20 / 73 NAILED N. 28 57 58 2659 27 60 6125 62 63 24 64 65 2366 21 71 7519 18 67 6822 69 70 17 4x6= 4x6= 6x6-quailed 7x8= nailed 4x4= nailed4x4-quailed 7x8= nailed 4x4= nailed7x8-quailed hic26 2x4 II 7x8≕ NAILENJAILED 54-0-0 50-10-4 7-1-12 4-0-0 12-3-15 23-1-9 17-9-10 28-3-12 33-9-7 39-1-6 44-3-9 49-9-4 58-0-0 4-0-0 3-1-12 5-2-3 5-3-15 5-2-3 5-5-11 5-2-3 5-5-11 5-3-15 5-5-11 4-0-0 Scale = 1 103.8 $[4\ 0-2-8,0-3-0]$ $[6\ 0-4-0\ 0-4-8]$, $[9\ 0-4-0,0-4-8]$, $[11\ 0-4-0\ 0-4-8]$ $[13\ 0-2-12,0-3-0]$ $[20\ 0-4-0,0-4-8]$, $[21\ 0-3-8,0-4-12]$, $[23\ 0-4-0,0-4-8]$, $[26\ 0-4-0,0-4-8]$ Plate Offsets (X Y) Loading (psf) Spacing 2-0-0 CSI DEFL (loc) I/defl L/d **PLATES GRIP** in TCLL (roof) 200 Plate Grip DOL 1 25 TC Vert(LL) -0 43 23-24 >999 240 MT20 244/190 TCDL 10 0 Lumber DOL 1 25 вс 0.87 Vert(CT) -0 87 >688 180 23-24 **BCLL** 0.0 Rep Stress Incr NO WR 036 Horz(CT) 0 18 19 n/a n/a BCDL 100 FBC2023/TPI2014 Code Weight: 1217 lb FT = 20% LUMBER WEBS 4-27=-85/870, 13-19=-619/291, This truss has been designed for a 10 0 psf bottom 13-18=-193/425, 12-19=-723/123 TOP CHORD 2x6 SP No 2 *Except* 1-4 13-16 2x4 SP No 2 chord live load nonconcurrent with any other live loads BOT CHORD 2x6 SP No 2 11-19=-6669/192, 5-26=-2395/156, * This truss has been designed for a live load of 20 0psf 2x4 SP No 2 4-26=-23/4619, 5-25=0/2813, on the bottom chord in all areas where a rectangle **WEBS** 6-25=-1300/118, 6-24=0/1161 3-06-00 tall by 2-00-00 wide will fit between the bottom BRACING 7-24=-414/102, 7-23=-455/83, 8-23=0/623 chord and any other members TOP CHORD Structural wood sheathing directly applied or 8-22=-2139/123, 9-22=0/1450 Provide mechanical connection (by others) of truss to 6-0-0 oc purlins 9-21=-3672/140, 10-21=0/2352 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc 10-20=-5299/181, 11-20=0/3188 2 and 452 lb uplift at joint 19 bracing, Except. 3-27=-63/578 14-18=-399/106 10) Λ" indicates Released bearing allow for upward 6-0-0 oc bracing 18-19,17-18 15-17 14-17=-39/219, 3-28=-499/64 movement at joint(s) 15 2=0-5-8 15=0-3-8, 19=0-5-8 REACTIONS (size) 11) Use MiTek HJC26 (With 16-16d nails into Girder & 10d NOTES Max Horiz 2=87 (LC 7) 3-ply truss to be connected together with 10d Max Uplift 2=-217 (LC 8), 15=REL, 19=-452 (0 131"x3") nails as follows (LC 8) truss(es) to back face of bottom chord Top chords connected as follows 2x4 - 1 row at 0-9-0 Max Grav 2=4191 (LC 19), 19=5795 (LC 1) oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows 2x6 - 2 rows 12) Fill all nail holes where hanger is in contact with lumber **FORCES** (lb) - Maximum Compression/Maximum 13) 'NAILED" indicates 3-10d (0 148 'x3") or 3-12d Tension Tension
1-2=0/54, 2-3=-7841/321, 3-4=-8194/374,
4-5=-11177/8/8/8-5-7=14614/8/44,
7-8=-14300/28/8-1/9-1/2496/1/38,
10-12=-5246/10/17, 12-13=-786/1007,
12-14=-240/966(14-15-398/617,
45-16=0/54
7-28=-212/6944, 27324-878/9/6934,
25,27=-255/11270 24-25=-230/13659,
25-22-42--486/14615 21-22=-72/12508, (0 148"x3 25') toe-nails per NDS guidlines staggered at 0-9-0 oc. TOP CHORD LOAD CASE(S) Standard

Web connected as follows. 2x4 - 1 row at 0-9-0 oc, Except member 4-27 2x4 - 1 row at 0-7-0 oc, Except member 13-18 2x4 - 1 row at 0-7-0 oc

- All loads are considered equally applied to all plies except if noted as front (F) or back (B) face in the LOAD CASE(S) section Ply to ply connections have been provided to distribute only loads noted as (F) or (B) unless otherwise indicated
- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph TCDL=6 0psf, BCDL=6 0psf h=15ft, B=45ft, L=58ft, eave=7ft Cat. II Exp B, Enclosed, MWFRS (directional), cantilever left and right exposed end vertical left and right exposed, porch right exposed Lumber DOL=1 60 plate grip DOL=1 60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding

- bearing plate capable of withstanding 217 lb uplift at joint
- nails into Truss) or equivalent spaced at 43-11-4 oc max starting at 7-0-6 from the left end to 50-11-10 to connect

Dead + Roof Live (balanced) Lumber Increase=1 25, Plate Increase=1 25 Uniform Loads (lb/ft)

April 25,2025

Continued on page 2
WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 BEFORE USE Design valid for use only with Mil'take 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 ANS/ITPI1 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)

BOT CHORD

186/14615 21-22= /2545 18-19=-821

SIONAL

MALIN

MiTek Inc DBA MiTek USA FL Cert 6634

16023 Swingley Ridge Rd Chesterfield, MO 63017

Julius Lee PE No. 34869



Job Truss Truss Type Qty MIKE TODD - GERKE RESIDENCE T37134692 3 0425-043 A09A 1 Job Reference (optional)

Mayo Truss Company Inc. Mayo FL - 32066,

Vert. 27=-640 (B), 18=-640 (B), 24=-56 (B), 7=-124 (B), 21=-56 (B), 10=-124 (B), 36=-124 (B), 37=-124

(B), 21=-56 (B), 10=-124 (B), 36=-124 (B), 37=-124 (B), 38=-124 (B), 39=-124 (B), 40=-124 (B), 41=-124 (B), 42=-124 (B), 43=-124 (B), 44=-124 (B), 46=-124 (B), 48=-124 (B), 50=-124 (B), 50=-124 (B), 55=-124 (B), 52=-124 (B), 53=-124 (B), 55=-124 (B), 56=-124 (B), 57=-56 (B), 58=-56 (B), 59=-56 (B), 60=-56 (B), 61=-56 (B), 62=-56 (B), 63=-56 (B), 64=-56 (B), 65=-56 (B), 66=-56 (B), 67=-56 (B), 68=-56 (B), 67=-56 (B), 72=-56 (B), 72=-56 (B), 73=-56 (B), 72=-56 (B), 75=-56 (B), 75=-56

Concentrated Loads (lb)

Run 8 83 S Apr 11 2025 Print: 8 830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 25 08 11 56

Page 2

ID 1xdJjUCCFBEj320gNuDWcqzNTPc-RfC?PsB70Hq3NSgPqnL8w3uiTXbGKWrCDoi7J4zJC?f Vert. 1-4=-60, 4-13=-60, 13-16=-60, 29-32=-20

MARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 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 properly damage. For general guidance regarding the fabrication storage delivery erection and bracing of trusses and truss systems, see ANS/ITP11 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)

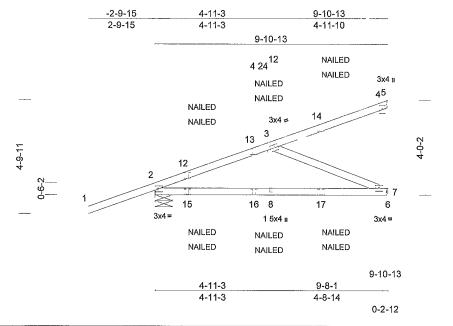


Job Truss Truss Type Qty Ply MIKE TODD - GERKE RESIDENCE T37134693 0425-043 CJ01 3 1 Job Reference (optional)

Mayo Truss Company Inc. Mayo FL - 32066,

Run 8 83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries Inc Fri Apr 25 08 11 56 $ID \cdot SFn1ni1QYuTiOux_ZyzE1tzNTPq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffrom the property of the propert$

Page 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 62	Vert(LL)	-0 04	8-11	>999	240	MT20	244/190
TCDL	100	Lumber DOL	1 25	BC	0 62	Vert(CT)	-0 06	7-8	>999	180		
BCLL	00*	Rep Stress Incr	NO	WB	0 28	Horz(CT)	-0 01	2	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight. 50 lb	FT = 20%

LUMBER

Scale = 1.49

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins except end verticals

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size)

Max Horiz 2=152 (LC 8)

Max Uplift 2=-209 (LC 8) 7=-96 (LC 8)

Max Grav 2=559 (LC 13), 7=504 (LC 13)

2=0-9-2 7= Mechanical

FORCES (lb) - Maximum Compression/Maximum

Tension 1-2=0/57, 2-3=-715/385 3-4=-114/16

4-5=-2/0 4-7=-175/72

BOT CHORD 2-8=-256/638 7-8=-151/638, 6-7=0/0 **WEBS**

3-8=0/196 3-7=-645/159

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for 1) this design
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph TCDL=6 0psf BCDL=6 0psf h=15ft, B=45ft, L=24ft eave=4ft Cat. II, Exp B, Partially Enclosed, MWFRS (directional); cantilever left and right exposed , Lumber DOL=1 60 plate grip DOL=1 60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- Refer to girder(s) for truss to truss connections

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 209 lb uplift at joint 2 and 96 lb uplift at joint 7
- "NAILED" indicates 3-10d (0 148"x3") or 2-12d (0 148"x3 25") toe-nails per NDS guidlines
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

LOAD CASE(S) Standard

Dead + Roof Live (balanced) Lumber Increase=1 25, Plate Increase=1 25

Uniform Loads (lb/ft)

Vert 1-4=-60, 4-5=-20 6-9=-20

Concentrated Loads (lb)

Vert 12=77 (F=38, B=38), 14=-77 (F=-38 B=-38), 15=77 (F=39 B=39) 16=11 (F=6 B=6), 17=-43

(F=-22 B=-22)



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

April 25,2025

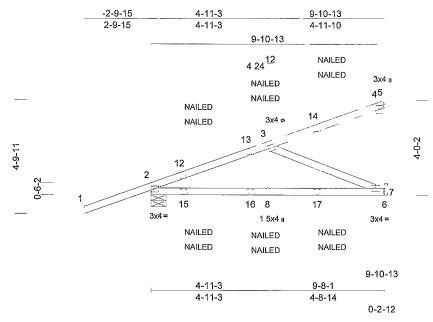


Job Truss Truss Type Qty Ply MIKE TODD - GERKE RESIDENCE 0425-043

CJ02 Diagonal Hip Girder 1 1 Job Reference (optional)

Run 8 83 S Apr 11 2025 Print. 8 830 S Apr 11 2025 MiTek Industries Inc. Fri Apr 25 08 11 57 Mayo Truss Company Inc Mayo FL 32066 ID SFn1ni1QYuTiOux_ZyzE1tzNTPq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

T37134694 Page 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 62	Vert(LL)	-0 04	8-11	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 62	Vert(CT)	-0 06	7-8	>999	180		
BCLL	00*	Rep Stress Incr	NO	WB	0 28	Horz(CT)	-0 01	2	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 50 lb	FT = 20%

LUMBER

Scale = 1 49

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

BRACING

BOT CHORD

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins except end verticals Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size) 2=0-7-12 7= Mechanical

Max Horiz 2=120 (LC 8)

Max Uplift 2=-195 (LC 8), 7=-76 (LC 8)

Max Grav 2=548 (LC 13), 7=488 (LC 13)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/57, 2-3=-717/385, 3-4=-121/17,

4-5=-2/0, 4-7=-166/60

BOT CHORD 2-8=-256/620, 7-8=-128/620, 6-7=0/0

WERS 3-8=0/196, 3-7=-626/134

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph TCDL=6 0psf BCDL=6 0psf h=15ft, B=45ft, L=24ft eave=4ft Cat. II, Exp B, Enclosed MWFRS (directional), cantilever left and right exposed Lumber DOL=1 60 plate grip DOL=1 60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- Refer to girder(s) for truss to truss connections

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 2 and 76 lb uplift at joint 7
- "NAILED" indicates 3-10d (0 148"x3") or 2-12d (0 148 'x3 25 ') toe-nails per NDS guidlines
- In the LOAD CASE(S) section loads applied to the face of the truss are noted as front (F) or back (B)

LOAD CASE(S) Standard

Dead + Roof Live (balanced) Lumber Increase=1 25, Plate Increase=1 25 Uniform Loads (lb/ft)

Vert. 1-4=-60, 4-5=-20, 6-9=-20

Concentrated Loads (lb)

Vert. 12=77 (F=38, B=38), 14=-77 (F=-38 B=-38) 15=77 (F=39, B=39), 16=11 (F=6 B=6) 17=-43

(F=-22, B=-22)



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Chesterfield MO 63017

Aprıl 25,2025

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Job Truss Qty Truss Type Ply MIKE TODD - GERKE RESIDENCE T37134695 0425-043 J01 1 42 Job Reference (optional) Mayo Truss Company Inc. Mayo FL 32066, Run 8 83 S Apr 11 2025 Print, 8.830 S Apr 11 2025 MiTek Industries Inc. Fri Apr 25 08 11 57 Page 1 ID.z2DeZM0onaLrmkMn?ES?VfzNTPr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -2-0-0 7-0-0 2-0-0 7-0-0 7-0-0 6¹² 3x4 = 7-0-0 Scale = 1 31,4 Plate Offsets (X, Y) [2 Edge 0-0-8] Loading Spacing 2-0-0 CSI **PLATES** (psf) DEFL l/defl GRIP L/d in (loc) TCLL (roof) 200 Plate Grip DOL >908 1 25 TC 0.58 Vert(LL) -0 09 4-7 240 MT20 244/190 TCDL 100 Lumber DOL 1 25 BC 0 51 Vert(CT) -0 21 4-7 >397 180 **BCLL** 00* Rep Stress Incr YES WB 0 00 , Horz(CT) 0.02 2 n/a n/a **BCDL** 100 FBC2023/TPI2014 Code Weight. 26 lb FT = 20% Matrix-AS LUMBER 7) This truss design requires that a minimum of 7/16" 2x4 SP No 2 structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to 2x4 SP No 2 the bottom chord BRACING

TOP CHORD BOT CHORD

TOP CHORD

Structural wood sheathing directly applied Rigid ceiling directly applied

BOT CHORD REACTIONS (size) 2=0-3-8, 3= Mechanical, 4=

Mechanical

Max Horiz 2=119 (LC 12)

Max Uplift 2=-34 (LC 12), 3=-45 (LC 12)

Max Grav 2=415 (LC 1), 3=184 (LC 1), 4=124

(LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/54, 2-3=-440/299

BOT CHORD 2-4=-258/115

NOTES

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf BCDL=6 0psf h=15ft, B=45ft, L=24ft eave=4ft, Cat II, Exp B, Enclosed, MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-4 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- Refer to girder(s) for truss to truss connections
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 3 and 34 lb uplift at joint 2

LOAD CASE(S) Standard

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April 25,2025

MARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 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 Design Valid to be only with interections this designs 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 and DSS-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)



Job Qty MIKE TODD - GERKE RESIDENCE Truss Truss Type Ply T37134696 1 0425-043 J01A 4 Job Reference (optional) Mayo Truss Company Inc. Mayo FL 32066 Run 8 83 S Apr 11 2025 Print, 8 830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 25 08 11 57 Page 1 ID z2DeZM0onaLrmkMn?ES?VfzNTPr RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -2-0-0 7-0-0 2-0-0 7-0-0 7-0-0 3 6¹² 4-9-15 3x4 = 1 5x4 II 7-0-0 Scale = 1 33 5 Plate Offsets (X Y) [2 Edge 0-0-8] Loading Spacing 2-0-0 CSI DEFL I/defl L/d PLATES GRIP (psf) (loc) TCLL (roof) 1 25 20.0 Plate Grip DOL TC 0.57 Vert(LL) -0.09 4-7 >940 240 MT20 244/190 TCDL 100 Lumber DOL 1 25 BC 0 49 Vert(CT) -0 20 4-7 >411 180 **BCLL** 00 Rep Stress Incr YES WB 0.00 0.02 Horz(CT) 2 n/a n/a BCDL FBC2023/TPI2014 100 Weight, 31 lb FT = 20% Code Matrix-AS LUMBER Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint TOP CHORD 2x4 SP No-2-4 and 57 lb uplift at joint 2 2x4 SP No 2 This truss design requires that a minimum of 7/16' **WEBS** 2x4 SP No 2

BOT CHORD

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals

BOT CHORD Rigid ceiling directly applied

REACTIONS (size) 2=0-3-8, 4= Mechanical Max Horiz 2=150 (LC 12)

Max Uplift 2=-57 (LC 12) 4=-55 (LC 12)

Max Grav 2=412 (LC 1) 4=282 (LC 17)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/54, 2-3=-477/301 3-4= 202/175

BOT CHORD 2-4=-315/165

NOTES

FORCES

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf BCDL=6 0psf, h=15ft B=45ft, L=24ft; eave=4ft, Cat II, Exp B Partially Enclosed MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-10-4 zone, cantilever left and right exposed C-C for members and forces & MWFRS for reactions shown Lumber DOL=1 60 plate grip DOL=160
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- Refer to girder(s) for truss to truss connections

structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord

LOAD CASE(S) Standard

ONA

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Job Truss Truss Type Qty Ply MIKE TODD - GERKE RESIDENCE T37134697 0425-043 J02 8 1 Job Reference (optional) Run 8 83 S Apr 11 2025 Print. 8 830 S Apr 11 2025 MiTek Industries Inc. Fri Apr 25 08 11 57 Mayo Truss Company Inc Mayo FL 32066, Page 1 ID:z2DeZM0onaLrmkMn?ES?VfzNTPr RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -2-0-0 5-0-0 2-0-0 5-0-0 5-0-0 612 3-9-15 3x4 5-0-0 Scale = 1 27.6 Loading (psf) Spacing 2-0-0 CSI DEFL l/defi L/d **PLATES** GRIP (loc) TCLL (roof) 20 0 1 25 TC Plate Grip DOL 0 27 Vert(LL) 0 03 >999 240 MT20 244/190 4-7 TCDL 100 Lumber DOL 1 25 BC 0.24 Vert(CT) -0 05 4-7 >999 180 **BCLL** 0.01 Rep Stress Incr YES WR 0.00 Horz(CT) 0.01 n/a **BCDL** 100 FBC2023/TPI2014 Matrix-AS Weight, 19 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied

BOT CHORD Rigid ceiling directly applied

REACTIONS (size) 2=0-3-8 3= Mechanical, 4= Mechanical

Max Horiz 2=119 (LC 12)

Max Uplift 2=-60 (LC 12) 3=-55 (LC 12)

2=342 (LC 1) 3=139 (LC 17) 4=88 Max Grav

(LC 3)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/54 2-3=-400/255

BOT CHORD 2-4=-202/105

NOTES

FORCES

- Wind ASCE 7-22 Vult=130mph (3-second gust) Vasd=101mph TCDL=6 0psf BCDL=6 0psf h=15ft, B=45ft L=24ft, eave=4ft Cat. II Exp B, Partially Enclosed, MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0 Zone1 1-0-0 to 4-11-4 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- Refer to girder(s) for truss to truss connections
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 3 and 60 lb uplift at joint 2

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

LOAD CASE(S) Standard

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

April 25,2025

MARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 BEFORE USE Design valid for use only with MiTak® 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 properly damage. For general guidance regarding the fabrication, storage delivery erection and bracing of trusses and truss systems, see ANS/ITP11 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)



Job Qty Ply Truss Truss Type MIKE TODD - GERKE RESIDENCE T37134698 0425-043 J03 1 8 Job Reference (optional) Mayo Truss Company Inc. Mayo FL 32066 Run 8 83 S Apr 11 2025 Print, 8 830 S Apr 11 2025 MiTek Industries Inc. Fri Apr 25 08 11 57 Page 1 ID.z2DeZM0onaLrmkMn?ES?VfzNTPr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -2-0-0 3-0-0 2-0-0 3-0-0 3-0-0 6¹² 3x4 = 3-0-0 Scale = 1 25.4 Loading (psf) Spacing 2-0-0 CSI DEFL I/defl L/d **PLATES** GRIP in (loc) TCLL (roof) 200 1 25 Plate Grip DOL TC Vert(LL) 0.00 >999 240 244/190 0.27 4-7 MT20 TCDL 100 Lumber DOL 1 25 BC 0 07 Vert(CT) -0 01 4-7 >999 180 **BCLL** 00* Rep Stress Incr YES WB 0 00 Horz(CT) 0 00 3 n/a n/a FBC2023/TPI2014 BCDL 100 Code Matrix-MP Weight, 13 lb FT = 20% Provide mechanical connection (by others) of truss to LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-0-0 oc purlins

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS (size)

2=0-3-8 3= Mechanical, 4= Mechanical

Max Horiz 2=85 (LC 12)

Max Uplift 2=-67 (LC 12), 3=-27 (LC 12)

Max Grav 2=278 (LC 1) 3=70 (LC 17) 4=48

(LC 3) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/54, 2-3=-308/219

BOT CHORD 2-4=-98/45

NOTES

FORCES

- 1) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf; BCDL=6 0psf h=15ft B=45ft, L=24ft, eave=4ft, Cat II Exp B Partially Enclosed, MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- Refer to girder(s) for truss to truss connections

bearing plate capable of withstanding 27 lb uplift at joint 3 and 67 lb uplift at joint 2

LOAD CASE(S) Standard

ONA

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

Aprıl 25,2025

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 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 Design value to use only with release continuous activities continuous activities of the state o



Job Truss Truss Type Qty Ply MIKE TODD - GERKE RESIDENCE T37134699 0425-043 J04 8 1 Job Reference (optional) Mayo Truss Company Inc. Mayo FL 32066 Run 8 83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries Inc. Fri Apr 25 08 11 57 Page 1 ID.z2DeZM0onaLrmkMn?ES?VfzNTPr RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 1-0-0 -2-0-0 2-0-0 1-0-0 1-0-0 6 12 3x4 = 1-0-0 Scale = 1 27 1 Plate Offsets (X, Y) [2 Edge 0-0-12] Loading (psf) Spacing 2-0-0 CSI **DEFL** I/defl L/d **PLATES** GRIP (loc) in TCLL (roof) 200 Plate Grip DOL 1 25 TC >999 0 27 Vert(LL) 0.00 4-7 240 MT20 244/190 TCDL 10.0 Lumber DOL 125 BC 0 09 Vert(CT) 0 00 4-7 >999 180 **BCLL** 00* Rep Stress Incr YES WB 0 00 Horz(CT) 0 00 3 n/a n/a BCDL 100 FBC2023/TPI2014 Code Matrix-MP Weight: 7 lb FT = 20%LUMBER 6) Provide mechanical connection (by others) of truss to TOP CHORD bearing plate capable of withstanding 106 lb uplift at joint 2x4 SP No 2 2, 48 lb uplift at joint 4 and 34 lb uplift at joint 3 BOT CHORD 2x4 SP No 2 **BRACING** LOAD CASE(S) Standard TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing REACTIONS (size) 2=0-3-8, 3= Mechanical 4= Mechanical Max Horiz 2=53 (LC 12) Max Uplift 2=-106 (LC 12) 3=-34 (LC 1) 4=-48 (LC 1) 2=281 (LC 1), 3=17 (LC 12) 4=31 Max Grav (LC 12) **FORCES** (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/54, 2-3=-248/196 **BOT CHORD** 2-4=-123/106 **NOTES** Wind ASCE 7-22, Vult=130mph (3-second gust)

- Vasd=101mph TCDL=6 0psf BCDL=6 0psf h=15ft B=45ft, L=24ft eave=4ft, Cat. II, Exp B, Partially Enclosed MWFRS (directional) and C-C Zone3 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- Refer to girder(s) for truss to truss connections



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

April 25,2025

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Job Truss Truss Type Qty Ply MIKE TODD - GERKE RESIDENCE T37134700 0425-043 PB01 3 Job Reference (optional) Run 8 83 S Apr 11 2025 Print: 8 830 S Apr 11 2025 MiTek Industries Inc. Fri Apr 25 08 11 57 Mayo Truss Company Inc. Mayo FL 32066, Page 1 ID:WxdIBvBtN1c7bCpo0VDsDszNSId RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 4-9-5 8-0-0 11-2-11 16-0-0 3-2-11 4-9-5 3-2-11 4-9-5 16-0-0 4x4 = 4 612 1 5x4 = 3 5 16 17 4-0-0 15 18 8 3x5= 3x5 = 3x8= 8-0-0 16-0-0 8-0-0 8-0-0 Scale = 1 41.5 Plate Offsets (X Y) [2 0-0-4,Edge] [6 0-0-4 Edge] Loading (psf) Spacing 2-0-0 CSI **DEFL** I/defI L/d **PLATES GRIP** in (loc) TCLL (roof) 200 Plate Grip DOL 1 25 TC Vert(LL) 999 0 32 n/a n/a MT20 244/190 TCDL 100 Lumber DOL 1 25 BC 0 36 Vert(TL) n/a n/a 999 **BCLL** 004 Rep Stress Incr YES WB 0 07 Horiz(TL) 0 00 n/a n/a **BCDL** 100 Code FBC2023/TPI2014 Matrix-AS Weight, 63 lb FT = 20%LUMBER This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads 2x4 SP No 2

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

WEBS BRACING

TOP CHORD Structural wood sheathing directly applied **BOT CHORD** Rigid ceiling directly applied

REACTIONS (size) 1=16-0-0 2=16-0-0 6=16-0-0 7=16-0-0 8=16-0-0

Max Horiz 1=-63 (LC 10) 1=-258 (LC 3), 7=-254 (LC 3) Max Uplift 8=-13 (LC 12)

1=-38 (LC 12), 2=522 (LC 23), Max Grav 6=505 (LC 24), 7=-36 (LC 12)

8=674 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-12/164, 2-3=-189/61, 3-4=-11/162, 4-5=-13/162 5-6=-188/59, 6-7=0/124

BOT CHORD 2-8=-110/148 6-8=-110/148

WEBS 4-8=-292/71 3-8=-252/118, 5-8=-252/118

NOTES

- Unbalanced roof live loads have been considered for
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf; BCDL=6 0psf; h=15ft, B=45ft L=24ft; eave=4ft, Cat II, Exp B, Enclosed, MWFRS (directional) and C-C Zone3 0-3-15 to 3-3-15, Zone1 3-3-15 to 8-0-0, Zone2 8-0-0 to 12-2-15 Zone1 12-2-15 to 15-8-1 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
- Gable requires continuous bottom chord bearing

- * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 258 lb uplift at joint 1, 254 lb uplift at joint 7 and 13 lb uplift at joint 8
- 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
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

April 25,2025

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Job Ply Truss Truss Type Qty MIKE TODD - GERKE RESIDENCE T37134701 0425-043 **PB02** 2 1 Job Reference (optional) Mayo Truss Company Inc. Mayo FL 32066 Run, 8 83 S. Apr 11 2025 Print, 8 830 S. Apr 11 2025 MiTek Industries, Inc. Fri Apr 25 08 11 58 Page 1 ID·Wg5Kd5zCNoTX2b0XWQQt1GzNSlu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 6-0-0 10-0-0 16-0-0 6-0-0 4-0-0 6-0-0 16-0-0 4x4 = 4x8 = 17 3 16 6¹² 4 15 18 8 3x4 = 3x4 = 1 5x4 ıı 3x4 = 6-1-12 9-10-4 16-0-0 6-1-12 3-8-8 6-1-12 Scale = 1 37 3 Plate Offsets (X Y) [2 0-1-0,Edge] [3 0-5-4,0-2-0], [5 0-1-0 Edge] Loading CSI Spacing 2-0-0 DEFL PLATES (psf) I/defl L/d GRIP (loc) TCLL (roof) 20.0 Plate Grip DOL 1 25 TC 0.37 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 100 Lumber DOL 1 25 ВС 0 15 Vert(TL) n/a n/a 999 **BCLL** 00' Rep Stress Incr YES WB 0.04 Horiz(TL) 0.00 6 n/a n/a FBC2023/TPI2014 BCDL 100 Code Matrix-AS Weight, 60 lb FT = 20%LUMBER Provide adequate drainage to prevent water ponding 2x4 SP No 2 Gable requires continuous bottom chord bearing 2x4 SP No 2 This truss has been designed for a 10 0 psf bottom 2x4 SP No 2 chord live load nonconcurrent with any other live loads * This truss has been designed for a live load of 20 0psf BRACING on the bottom chord in all areas where a rectangle Structural wood sheathing directly applied 3-06-00 tall by 2-00-00 wide will fit between the bottom BOT CHORD Rigid ceiling directly applied chord and any other members REACTIONS (size) 1=16-0-0, 2=16-0-0 5=16-0-0, Provide mechanical connection (by others) of truss to 6=16-0-0 7=16-0-0, 8=16-0-0

TOP CHORD BOT CHORD WEBS

TOP CHORD

1=-47 (LC 10) Max Horiz

1=-303 (LC 17), 2=-25 (LC 12), Max Uplift

5=-29 (LC 12) 6=-290 (LC 1), 7=-1

(LC 12)

1=21 (LC 12), 2=598 (LC 1), 5=569 Max Grav (LC 1) 6=24 (LC 12) 7=356 (LC

24), 8=317 (LC 23)

FORCES TOP CHORD

(lb) - Maximum Compression/Maximum

Tension

1-2=-30/186, 2-3=-116/108, 3-4=-33/50,

4-5=-92/108, 5-6=-26/151 **BOT CHORD** 2-8=-114/56, 7-8=-1/45, 5-7=-122/34

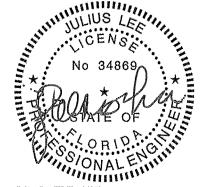
WEBS 3-8=-222/52 3-7=-39/23, 4-7=-253/72

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph TCDL=6 0psf; BCDL=6 0psf; h=15ft, B=45ft L=24ft eave=4ft, Cat. II, Exp B, Enclosed MWFRS (directional) and C-C Zone3 0-3-15 to 3-3-15 Zone1 3-3-15 to 6-0-0, Zone3 6-0-0 to 10-0-0, Zone2 10-0-0 to 14-6-3. Zone1 14-6-3 to 15-8-1 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=160
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- bearing plate capable of withstanding 25 lb uplift at joint 2 29 lb uplift at joint 5 303 lb uplift at joint 1, 290 lb uplift at joint 6 1 lb uplift at joint 7, 25 lb uplift at joint 2 and 29 lb uplift at joint 5
- 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
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable or consult qualified building designer

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

April 25,2025

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Job Truss Truss Type Qtv Plv MIKE TODD - GERKE RESIDENCE T37134702 0425-043 **PB03** 1 2 Job Reference (optional) Mayo Truss Company Inc. Mayo FL 32066 Run 8 83 S Apr 11 2025 Print. 8 830 S Apr 11 2025 MiTek Industries Inc. Fri Apr 25 08 11 58 Page 1 ID R9X534Zpxsj8WcZ2AMpRobzNSKj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 8-0-0 4-0-0 12-0-0 16-0-0 4-0-0 4-0-0 4-0-0 4-0-0 16-0-0 4x8 = 4x8 = 1.5x4 u 6^{1<u>2</u>} 3 5 4 10 8 3x4 = 1.5x4 II 3x8 = 1 5x4 n 4-1-12 8-0-0 16-0-0 11-10-4 4-1-12 3-10-4 3-10-4 4-1-12 Scale = 1 33 Plate Offsets (X Y) [3 0-5-4,0-2-0], [5 0-5-4 0-2-0] Loading Spacing 2-0-0 CSI DEFL 1/defl **PLATES** GRIP (psf) L/d in (loc) TCLL (roof) 200 Plate Grip DOL 1 25 TC 0.17 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 100 Lumber DOL 1 25 BC 0 11 Vert(TL) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0 03 0 00 Horiz(TL) 7 n/a n/a **BCDL** 100 FBC2023/TPI2014 Code Matrix-AS Weight 63 lb FT = 20% LUMBER Building Designer / Project engineer responsible for TOP CHORD 2x4 SP No 2 verifying applied roof live load shown covers rain loading 2x4 SP No 2

BOT CHORD 2x4 SP No 2 WEBS

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied Rigid ceiling directly applied

REACTIONS (size)

1=16-0-0 2=16-0-0 6=16-0-0, 7=16-0-0, 8=16-0-0, 9=16-0-0,

10=16-0-0 1=31 (LC 11)

Max Horiz Max Uplift

1=-77 (LC 17), 2=-5 (LC 12) 6=-15 (LC 12) 7=-62 (LC 1) 9=-17 (LC 8) 1=6 (LC 12), 2=259 (LC 1) 6=243 Max Grav

(LC 1), 7=8 (LC 12), 8=257 (LC 1)

9=358 (LC 24) 10=258 (LC 1)

TOP CHORD

FORCES

(lb) - Maximum Compression/Maximum Tension

1-2=-23/74, 2-3=-51/33, 3-4=-8/19 4-5=-8/19,

5-6=-53/32, 6-7=-8/49

BOT CHORD

2-10=-10/31, 9-10=-6/19 8-9=-6/19 6-8=-12/27

3-10=-178/41 5-8=-178/42, 5-9=-20/21, 4-9=-269/73, 3-9=-19/22

WEBS NOTES

> Unbalanced roof live loads have been considered for this design

Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph TCDL=6 0psf BCDL=6 0psf; h=15ft B=45ft L=24ft; eave=4ft, Cat. II, Exp B, Enclosed, MWFRS (directional) and C-C Zone3 0-3-15 to 3-3-15, Zone1 3-3-15 to 4-0-0, Zone2 4-0-0 to 8-0-0, Zone1 8-0-0 to 12-0-0, Zone3 12-0-0 to 15-8-1 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

- requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding Gable requires continuous bottom chord bearing
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 2 15 lb uplift at joint 6 77 lb uplift at joint 1 62 lb uplift at joint 7, 17 lb uplift at joint 9, 5 lb uplift at joint 2 and 15 lb uplift at joint 6
- 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
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer

LOAD CASE(S) Standard

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

April 25,2025

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Job Truss Truss Type Qty MIKE TODD - GERKE RESIDENCE T37134703 0425-043 **PB04** 2 1 Job Reference (optional) Mayo Truss Company Inc. Mayo Fl. 32066 Run 8 83 S Apr 11 2025 Print: 8 830 S Apr 11 2025 MiTek Industries Inc. Fri Apr 25 08 11 58 Page 1 ID h95wXzt7pr?SecZ2hpHXr4zNSKJ RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 2-0-0 5-0-0 8-0-0 11-0-0 16-0-0 14-0-0 2-0-0 3-0-0 3-0-0 3-0-0 3-0-0 2-0-0 16-0-0 612 6x8 = 3x8 II 3x8 II 3x8 II 6x8 🏎 3 2-6-12 24-8-8 2-8-202 5 6 7 0-3-8 13 12 11 10 2-1-12 5-0-0 8-0-0 11-0-0 13-10-4 16-0-0 2-10-4 2-1-12 3-0-0 3-0-0 2-10-4 2-1-12

Plate Offsets (X Y) [3 0-4-0 0-1-15], [7 0-4-0 0-1-15]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 09	Vert(LL)	n/a	_	n/a	999	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 06	Vert(TL)	n/a	_	n/a	999		
BCLL	00*	Rep Stress Incr	YES	WB	0 02	Horiz(TL)	0 00	9	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS		` ,					Weight, 48 lb	FT = 20%

LUMBER

Scale = 1 31 1

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

BRACING

TOP CHORD Structural wood sheathing directly applied

BOT CHORD Rigid ceiling directly applied REACTIONS (size)

1=16-0-0, 2=16-0-0 8=16-0-0 9=16-0-0, 10=16-0-0 11=16-0-0,

12=16-0-0 13=16-0-0, 14=16-0-0

Max Horiz 1=-14 (LC 10)

1=-1 (LC 8), 8=-4 (LC 12) 11=-9 Max Uplift

(LC 9) 13=-9 (LC 8)

1=23 (LC 18), 2=69 (LC 17) 8=56 Max Grav (LC 1) 9=23 (LC 24) 10=168 (LC

24) 11=252 (LC 23), 12=234 (LC 1) 13=252 (LC 24), 14=171 (LC 23)

FORCES

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-19/21, 2-3=-22/15, 3-4=-7/14 4-5=-7/14,

5-6=-7/14 6-7=-7/14 7-8=-21/14 8-9=-8/9

BOT CHORD

2-14=-1/32 13-14=-7/13 12-13=-7/13 11-12=-7/13, 10-11=-7/13, 8-10=-2/31

WEBS 3-14=-129/42 5-12=-174/41 7-10=-128/43

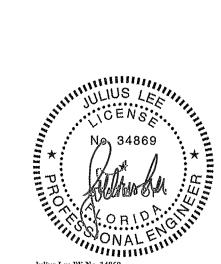
4-13=-191/60 6-11=-191/60

NOTES

1) Unbalanced roof live loads have been considered for this design

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf BCDL=6 0psf; h=15ft, B=45ft, L=24ft, eave=4ft, Cat. II Exp B, Enclosed MWFRS (directional) and C-C Zone3 0-3-15 to 2-0-0 Zone2 2-0-0 to 6-2-15, Zone1 6-2-15 to 14-0-0, Zone3 14-0-0 to 15-8-1 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding
- Gable requires continuous bottom chord bearing
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom
- chord and any other members Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 8, 1 lb uplift at joint 1, 9 lb uplift at joint 13 9 lb uplift at joint
- 11 and 4 lb uplift at joint 8 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
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer

LOAD CASE(S) Standard



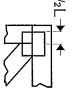
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April 25,2025

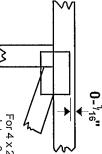
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PLATE LOCATION AND ORIENTATION



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



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

connector plates required direction of slots in This symbol indicates the

* Plate location details available in MiTek software or upon request

PLATE SIZE

4 × 4

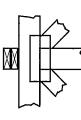
the length parallel to slots width measured perpendicular to slots Second dimension is The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

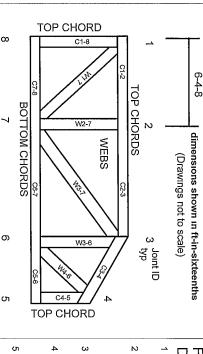
Industry Standards:

National Design Specification for Metal Building Component Safety Information, Plate Connected Wood Truss Construction Design Standard for Bracing

DSB-22 ANSI/TPI1

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

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-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

established by others. section 6 3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

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SID @

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 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
- 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

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- 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

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

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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
- ಚ 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.
- 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