



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

RE: P06023-114173 - Nagle Residence

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: Jaron Nagle Project Name: . Model: 2nd Flr Low roof
Lot/Block: . Subdivision: .
Address: 351 NW Heritage Dr., .
City: Lake City 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 25.4
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 45.0 psf Floor Load: N/A psf

This package includes 13 individual, Truss Design Drawings and 0 Additional Drawings.

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

No.	Seal#	Truss Name	Date
1	T41921901	TFG2	7/20/26
2	T41921902	TFG1	7/20/26
3	T41921903	TE3	7/20/26
4	T41921904	TE1	7/20/26
5	T41921905	T1	7/20/26
6	T41921906	TE2	7/20/26
7	T41921907	T2	7/20/26
8	T41921908	TE4	7/20/26
9	T41921909	TA1	7/20/26
10	T41921910	TA2	7/20/26
11	T41921911	TAG1	7/20/26
12	T41921912	TA3	7/20/26
13	T41921913	TA4	7/20/26

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by 84 Lumber 1387 (Winter Haven, FL).

Truss Design Engineer's Name: Lee, Julius

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
Date:

July 20, 2026

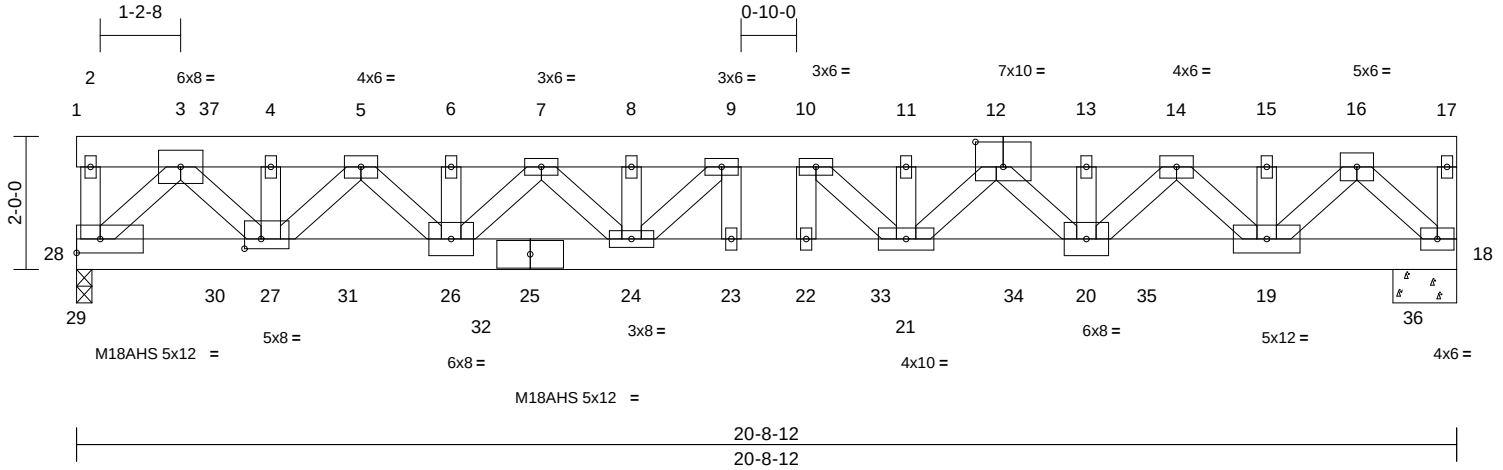
Job	Truss	Truss Type	Qty	Ply	Nagle Residence
P06023-114173	TFG2	Floor Girder	1	2	T41921901
					Job Reference (optional)

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Mon Jul 20 11:50:04

Page: 1

ID:p7rkWx4elvnCymS9tSEmYAyxXBc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?i



Scale = 1:34.6

Plate Offsets (X, Y): [12:0-5-0,0-4-8], [27:0-3-0,0-1-12]

Loading	(psf)	Spacing	1-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	-0.34	23	>729	480	M18AHS 186/179
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.46	23	>533	360	MT20 244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.09	18	n/a	n/a	
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							
											Weight: 294 lb FT = 11%

LUMBER
TOP CHORD 2x6 SP DSS *Except* 12-17:2x6 SP No.2
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.2

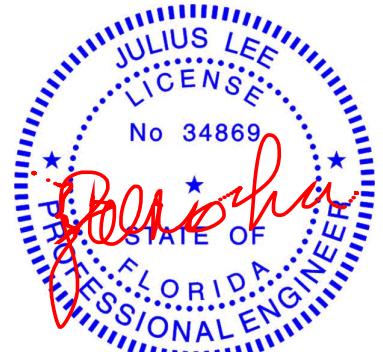
BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 18=0-11-8, 28=0-2-12, (req. 0-3-4)
Max Grav 18=4470 (LC 1), 28=6399 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-28=-612/0, 17-18=-142/0, 1-2=0/0, 2-3=-200/0, 3-4=-9240/0, 4-5=-9240/0, 5-6=-15181/0, 6-7=-15181/0, 7-8=-18124/0, 8-9=-18124/0, 9-10=-18121/0, 10-11=-16514/0, 11-13=-16514/0, 13-14=-12365/0, 14-15=-6833/0, 15-16=-6833/0, 16-17=-130/0
BOT CHORD 28-29=0/0, 27-28=0/5051, 26-27=0/12511, 24-26=0/16994, 23-24=0/18121, 22-23=0/18121, 21-22=0/18121, 20-21=0/14566, 19-20=0/9726, 18-19=0/3514
WEBS 16-18=-5128/0, 3-28=-7350/0, 16-19=0/5029, 3-27=0/6348, 15-19=0/107, 4-27=-454/0, 14-19=-4384/0, 5-27=-4957/0, 14-20=0/4000, 5-26=0/4045, 13-20=0/165, 6-26=-305/0, 12-20=-3335/0, 7-26=-2747/0, 12-21=0/2953, 7-24=0/1804, 11-21=-274/296, 8-24=-753/0, 10-21=-3125/0, 9-24=-1594/1255, 9-23=-406/574, 10-22=-115/833

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) Unbalanced floor live loads have been considered for this design.
4) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 2x4 (||) MT20 unless otherwise indicated.
7) The Fabrication Tolerance at joint 25 = 11%
8) WARNING: Required bearing size at joint(s) 28 greater than input bearing size.
9) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 501 lb down at 2-1-0, 501 lb down at 4-1-0, 501 lb down at 6-1-0, 501 lb down at 8-1-0, 501 lb down at 10-1-0, 501 lb down at 12-1-0, 501 lb down at 14-1-0, 501 lb down at 16-1-0, and 391 lb down at 18-1-8, and 469 lb down at 20-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 18-29=-5, 5-37=-170, 5-11=-420, 11-17=-50
Concentrated Loads (lb)

Vert: 19=-391 (F), 4=-527, 24=-501 (F), 23=-501 (F), 30=-501 (F), 31=-501 (F), 32=-501 (F), 33=-501 (F), 34=-501 (F), 35=-501 (F), 36=-469 (F)
Trapezoidal Loads (lb/ft)
Vert: 1=-440-to-2=-467, 2=-467-to-3=-641, 3=-641-to-37=-697



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

July 20,2026

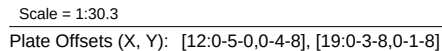
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/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.sbcsccomponents.com)

MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880, Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Mon Jul 20 11:50:04 Page: 1
ID:WH_XbTo5XSOB?GPzyQ30jyxXJL-RfC?PsB70Hg3NSgPqnL8w3ulTXbGKWRcDoi7J4zJc?f



LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-7-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 16=0-2-12, 24=0-2-12, (req. 0-3-3)
Max Grav 16=4472 (LC 1), 24=6276 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-24=-615/0, 15-16=-176/0, 1-2=0/0,
2-3=-197/0, 3-4=-8863/0, 4-5=-8863/0,
5-6=-14277/0, 6-7=-14277/0, 7-8=-16200/0,
8-9=-16200/0, 9-10=-16200/0,
10-11=-12711/0, 11-13=-12711/0,
13-14=-7184/0, 14-15=-131/0
BOT CHORD 24-25=0/0, 23-24=0/4915, 21-23=0/11961,
20-21=0/15721, 19-20=0/16200,
18-19=0/14802, 17-18=0/10114,
16-17=0/3726
WEBS 14-16=-5448/0, 3-24=-7150/0, 14-17=0/5240,
3-23=0/5982, 13-17=0/69, 4-23=-464/0,
12-17=-4439/0, 5-23=-4695/0, 12-18=0/3935,
5-21=0/3510, 11-18=0/58, 6-21=-185/0,
10-18=-3169/0, 7-21=-2187/0, 10-19=0/2938,
7-20=-793/2073, 8-20=-936/308,
9-19=-1269/0

- ## NOTES
- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) 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.
- 3) Unbalanced floor live loads have been considered for this design.
- 4) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) The Fabrication Tolerance at joint 22 = 11%
- 7) WARNING: Required bearing size at joint(s) 24 greater than input bearing size.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
- 9) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 496 lb down at 2-1-0, 496 lb down at 4-1-0, 496 lb down at 6-1-0, 496 lb down at 8-1-0, 496 lb down at 10-1-0, 496 lb down at 12-1-0, and 496 lb down at 14-1-0, and 496 lb down at 16-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00,
Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 16-25=-10, 5-31=-220, 5-32=-470, 15-32=-100
Concentrated Loads (lb)
Vert: 22=-496 (B), 4=-527, 19=-496 (B), 20=-496 (B),
26=-496 (B), 27=-496 (B), 28=-496 (B), 29=-496 (B),
30=-496 (B)
Trapezoidal Loads (lb/ft)
Vert: 1=-490-to-2=-517, 2=-517-to-3=-691, 3=-691-
to-31=-747



July 20, 2026



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DS-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

MiTek®

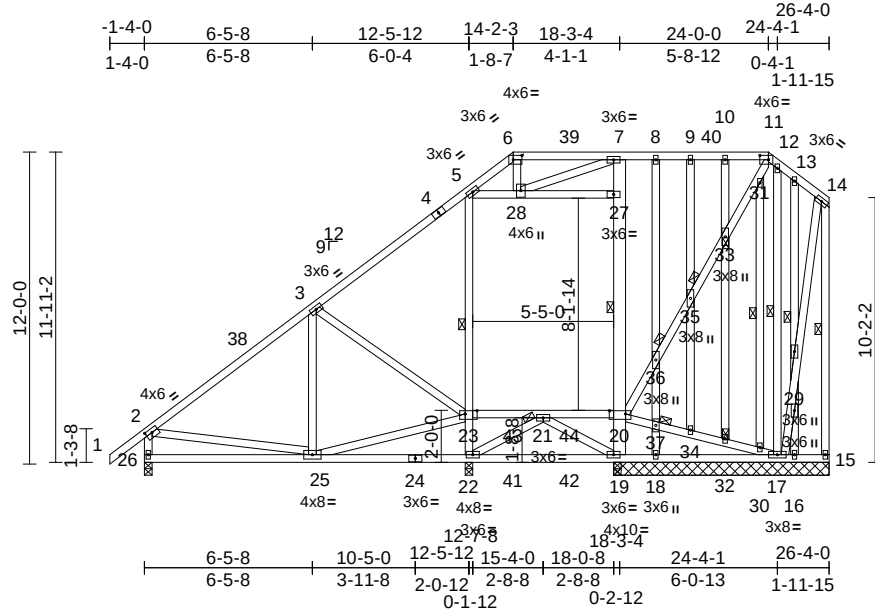
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Nagle Residence	T41921903
P06023-114173	TE3	Attic Structural Gable	1	1	Job Reference (optional)	

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

Run: 25.40 S Feb 10 2026 Print: 25.4.0 S Feb 10 2026 MiTek Industries, Inc. Mon Jul 20 13:27:00
ID:UVVDD4M_d8YzFwt34_715HyxWbr-wsYgR6d3jZ3pouKQkFhNw60JLDszQAfR2anazTywAQQ

Page: 1



Scale = 1:88.6

Plate Offsets (X, Y): [2:0-3-0,0-1-12], [6:0-4-0,0-2-0], [11:0-4-0,0-2-0], [20:0-7-8,0-1-8], [23:0-5-8,0-1-8]

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	0.48	Vert(LL)	0.10	19-22	>709	240	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	0.09	19-22	>754	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.41	Horz(CT)	-0.01	15	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Attic	-0.01	20-23	>999	360	Weight: 350 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* 7-19:2x6 SP No.2
OTHERS 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 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-23, 20-27, 12-17, 14-15, 30-31
JOINTS 1 Brace at Jt(s): 21, 29, 32, 33, 35, 36, 37

REACTIONS All bearings 8-3-8. except 26=0-3-8, 22=0-3-8 (lb) - Max Horiz 26=393 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 15, 16, 17, 18, 26 except 22=-128 (LC 12)
Max Grav All reactions 250 (lb) or less at joint (s) 15, 16 except 17=301 (LC 3), 18=296 (LC 27), 19=794 (LC 2), 22=1298 (LC 20), 26=625 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-38=-498/0, 3-38=-259/0, 2-26=-562/63
BOT CHORD 25-26=-467/309, 22-41=-279/302, 41-42=-279/302, 19-42=-279/302
WEBS 22-23=-1066/203, 5-23=-630/187, 19-20=-559/25, 20-27=-491/108, 7-27=-303/118, 23-25=-151/356, 3-23=-445/250, 19-21=-377/353, 21-22=-398/319, 18-37=-252/101

NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-4-0 to 4-0-13, Zone1 4-0-13 to 14-2-3, Zone2 14-2-3 to 21-9-13, Zone1 21-9-13 to 24-0-0, Zone3 24-0-0 to 26-2-4 zone; cantilever left exposed ; end vertical left exposed; porch exposed 12-5-12 to 18-2-4 ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 oc.
- 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.
- Ceiling dead load (5.0 psf) on member(s). 5-28, 27-28; Wall dead load (10.0psf) on member(s).5-23, 20-27
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 21-23, 20-21
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 26, 17, 15, 16, 18 except (jt=lb) 22=127.
- Attic room checked for L/360 deflection.

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:

July 20,2026

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/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.sbcsccomponents.com)

MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

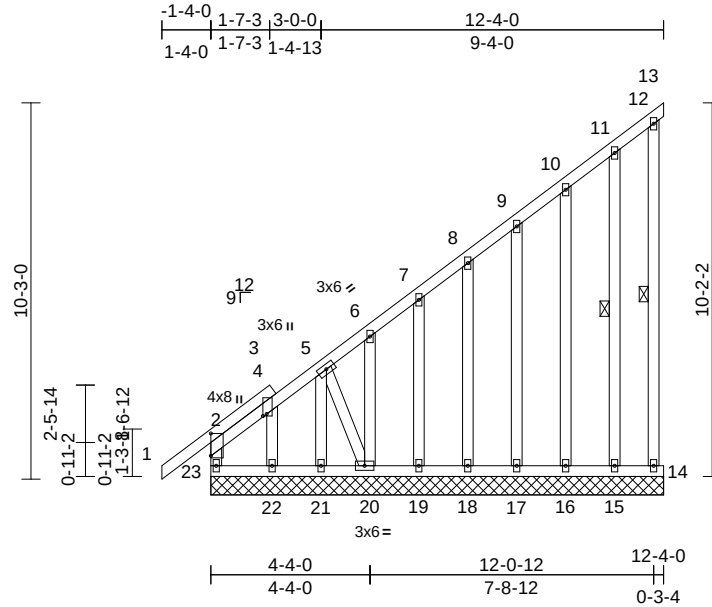
Job	Truss	Truss Type	Qty	Ply	Nagle Residence
P06023-114173	TE1	Monopitch Supported Gable	2	1	T41921904
					Job Reference (optional)

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

Run: 25.40 S Jul 9 2026 Print: 25.40 S Jul 9 2026 MiTek Industries, Inc. Mon Jul 20 11:50:03

Page: 1

ID:Up9xSRnqBVT0sg8TagMwv3yxWj2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCD0i7J4zJC?f



Scale = 1:62.8

Plate Offsets (X, Y): [2:0-7-5,Edge], [3:0-0-11,0-1-4]

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)	n/a	-	n/a	999	MT20
TCDL	15.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.02	13	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 127 lb FT = 20%											

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	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 6-0-0 oc bracing.
WEBS	1 Row at midpt 12-14, 11-15

REACTIONS	(size)	13=12-4-0, 14=12-4-0, 15=12-4-0, 16=12-4-0, 17=12-4-0, 18=12-4-0, 19=12-4-0, 20=12-4-0, 21=12-4-0, 22=12-4-0, 23=12-4-0
	Max Horiz	23=365 (LC 12)
	Max Uplift	13=-17 (LC 12), 14=-20 (LC 12), 15=-54 (LC 12), 16=-64 (LC 12), 17=-61 (LC 12), 18=-60 (LC 12), 19=-70 (LC 12), 20=-449 (LC 12), 21=-115 (LC 10), 22=-124 (LC 12), 23=-6 (LC 8)
	Max Grav	13=22 (LC 19), 14=40 (LC 19), 15=122 (LC 19), 16=132 (LC 19), 17=128 (LC 19), 18=128 (LC 19), 19=131 (LC 19), 20=249 (LC 10), 21=474 (LC 12), 22=120 (LC 19), 23=215 (LC 21)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	2-23=-198/62, 1-2=0/55, 2-3=-232/121, 3-5=-177/104, 5-6=-422/206, 6-7=-382/187, 7-8=-306/152, 8-9=-239/121, 9-10=-172/90, 10-11=-102/57, 11-12=-39/22, 12-13=-16/12, 12-14=-31/29

BOT CHORD	22-23=-288/130, 21-22=-288/130, 20-21=-288/130, 19-20=-1/0, 18-19=-1/0, 17-18=-1/0, 16-17=-1/0, 15-16=-1/0, 14-15=-1/0
WEBS	11-15=-96/94, 10-16=-105/105, 9-17=-101/101, 8-18=-101/100, 7-19=-105/117, 6-20=-93/55, 5-21=-661/255, 3-22=-100/105, 5-20=-307/678

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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 6 lb uplift at joint 23, 20 lb uplift at joint 14, 17 lb uplift at joint 13, 54 lb uplift at joint 15, 64 lb uplift at joint 16, 61 lb uplift at joint 17, 60 lb uplift at joint 18, 70 lb uplift at joint 19, 115 lb uplift at joint 21, 124 lb uplift at joint 22 and 449 lb uplift at joint 20.

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:

July 20,2026

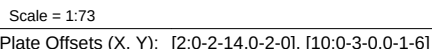
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/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.sbcsccomponents.com)

MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880, Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Mon Jul 20 11:50:00 Page: 1
ID:v39pBFL?jsouLF52h944V6vxX7O-RfC?PsB70Hg3NSaPanL8w3uITXbGKWCrDci7J4zJC?f



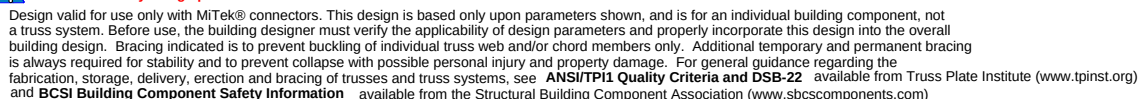
LUMBER		5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 7) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface. 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 9 and 313 lb uplift at joint 11.
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.2	
OTHERS	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 8-2-7 oc bracing.	
WEBS	1 Row at midpt	5-11
REACTIONS	(size)	9=0-3-8, 11=0-1-8
	Max Horiz	9=373 (LC 12)
	Max Uplift	9=-19 (LC 12), 11=-313 (LC 12)
	Max Grav	9=650 (LC 1), 11=585 (LC 19)
LOAD CASE(S)		Standard

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-4-0 to 4-0-13, Zone1 4-0-13 to 12-4-0 zone; cantilever left exposed ; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain load requirements specific to the use of this truss component.

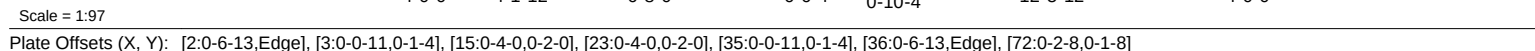


July 20, 2026



MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880, Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Mon Jul 20 11:50:03 Page: 1
ID:Yuu U6nRiG4sZDAyW7hGAExxVv -RfC?PsB70Hg3NSaPantL8w3ulTXbGKwRCDoj7J4zJC?f



LUMBER		Max Grav	38=204 (LC 1), 39=83 (LC 20), 40=249 (LC 13), 41=230 (LC 20), 42=131 (LC 20), 43=128 (LC 20), 44=128 (LC 20), 45=128 (LC 20), 46=128 (LC 20), 47=132 (LC 20), 48=125 (LC 20), 50=152 (LC 22), 51=208 (LC 8), 52=1072 (LC 26), 56=771 (LC 19), 57=29 (LC 1), 58=155 (LC 19), 59=268 (LC 10), 60=297 (LC 11), 61=112 (LC 10), 62=229 (LC 20)
TOP CHORD	2x4 SP No.2		
BOT CHORD	2x4 SP No.2		
WEBS	2x4 SP No.2 *Except*		
	71-70,71-72,72-73,74-75:2x6 SP No.2		
OTHERS	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 6-0-0 oc bracing, Except:		
	10-0-0 oc bracing: 56-57,54-56.	FORCES	(lb) - Maximum Compression/Maximum Tension
WEBS	1 Row at midpt 21-70, 23-50, 22-74, 20-84, 24-48, 25-47, 27-46	TOP CHORD	2-62=-199/100, 1-2=0/55, 2-3=-116/96, 3-5=-84/85, 5-6=-188/176, 6-7=-183/167, 7-8=-167/149, 8-9=-149/158, 9-10=-145/192, 10-11=-125/193, 11-13=-111/218, 13-14=-110/250, 14-15=-100/249, 15-16=-108/231, 16-17=-108/231, 17-18=-108/231, 18-19=-108/231, 19-20=-108/231, 20-21=-108/231, 21-22=-108/232, 22-23=-108/232, 23-24=-125/262, 24-25=-109/223, 25-27=-87/173, 27-28=-70/146, 28-29=-52/118, 29-30=-58/91, 30-31=-71/76, 31-32=-87/82, 32-33=-117/90, 33-35=-30/49, 35-36=-68/31, 36-37=0/55, 36-38=-193/94
JOINTS	1 Brace at Jt(s): 63, 65, 66, 68, 70, 71, 72, 74, 77, 80, 83	BOT CHORD	61-62=-224/235, 60-61=-224/235, 59-60=-224/235, 58-59=-127/202, 57-58=-127/202, 56-57=-125/195, 54-56=-125/193, 53-54=-125/201, 52-53=-125/201, 51-52=-126/202, 50-51=-126/202, 48-50=-126/202, 47-48=-126/202, 46-47=-126/202, 45-46=-126/202, 44-45=-126/202, 43-44=-126/202, 42-43=-126/202, 41-42=-126/202, 40-41=-57/78, 39-40=-57/78, 38-39=-57/78
REACTIONS (size)	38=16-7-8, 39=16-7-8, 40=16-7-8, 41=16-7-8, 42=16-7-8, 43=16-7-8, 44=16-7-8, 45=16-7-8, 46=16-7-8, 47=16-7-8, 48=16-7-8, 50=16-7-8, 51=16-7-8, 52=16-7-8, 56=8-3-8, 57=8-3-8, 58=8-3-8, 59=8-3-8, 60=8-3-8, 61=8-3-8, 62=8-3-8		
	Max Horiz 62=-321 (LC 10)		
	Max Uplift 38=-24 (LC 9), 39=-62 (LC 13), 40=-77 (LC 11), 41=-287 (LC 13), 42=-67 (LC 13), 43=-61 (LC 13), 44=-61 (LC 13), 45=-61 (LC 13), 46=-61 (LC 13), 47=-69 (LC 13), 48=-44 (LC 13), 51=-366 (LC 26), 52=-317 (LC 9), 56=-230 (LC 12), 57=-34 (LC 3), 58=-68 (LC 12), 59=-313 (LC 12), 60=-153 (LC 10), 61=-80 (LC 12), 62=-88 (LC 8)		



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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Nagle Residence
P06023-114173	TE2	Piggyback Base Supported Gable	1	1	T41921906
			Job Reference (optional)		

WEBS

52-70=-522/92, 21-70=-147/79,
56-72=-647/271, 9-72=-247/199,
54-71=-54/103, 15-71=-260/92,
50-75=-105/40, 23-75=-105/40, 51-74=-65/15,
22-74=-65/15, 20-84=-58/36, 19-82=-78/35,
18-63=-76/33, 17-64=-78/34, 16-65=-68/31,
14-66=-26/21, 13-67=-102/75, 11-68=-94/64,
10-69=-33/6, 57-73=-58/18, 8-73=-48/13,
7-58=-111/83, 6-59=-95/48, 5-60=-268/172,
3-61=-55/44, 24-48=-103/53, 25-47=-104/77,
27-46=-101/69, 28-45=-102/69,
29-44=-102/69, 30-43=-101/68,
31-42=-104/75, 32-41=-93/50,
33-40=-233/100, 35-39=-54/37,
33-41=-152/272, 5-59=-213/302,
65-71=-309/63, 64-65=-327/61,
63-64=-368/79, 63-82=-402/93,
82-84=-436/107, 70-84=-410/65,
69-72=-430/95, 68-69=-413/91,
67-68=-375/76, 66-67=-328/58,
66-71=-325/63, 54-86=-66/321,
80-86=-65/310, 80-81=-66/312,
81-83=-68/318, 83-85=-71/324,
70-85=-63/324, 72-76=-56/305,
76-77=-55/299, 77-78=-52/292,
78-79=-50/286, 54-79=-51/291, 72-73=-16/13,
74-75=0/0, 69-76=-14/2, 68-77=-22/15,
67-78=-21/16, 66-79=-3/18, 64-80=-12/9,
63-81=-19/7, 82-83=-22/12, 84-85=-120/124,
53-85=-137/164, 65-86=-7/38

- NOTES
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
 - 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-4-0 to 4-0-0, Zone1 4-0-0 to 14-8-0, Zone2 14-8-0 to 22-2-4, Zone1 22-2-4 to 24-0-0, Zone2 24-0-0 to 31-7-10, Zone1 31-7-10 to 40-0-0 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
 - 4) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 6) Provide adequate drainage to prevent water ponding.
 - 7) All plates are 2x4 (I) MT20 unless otherwise indicated.
 - 8) Gable studs spaced at 1-4-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * 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.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 62, 24 lb uplift at joint 38, 317 lb uplift at joint 52, 230 lb uplift at joint 56, 366 lb uplift at joint 51, 34 lb uplift at joint 57, 68 lb uplift at joint 58, 313 lb uplift at joint 59, 153 lb uplift at joint 60, 80 lb uplift at joint 61, 44 lb uplift at joint 48, 69 lb uplift at joint 47, 61 lb uplift at joint 46, 61 lb uplift at joint 45, 61 lb uplift at joint 44, 61 lb uplift at joint 43, 67 lb uplift at joint 42, 287 lb uplift at joint 41, 77 lb uplift at joint 40 and 62 lb uplift at joint 39.

LOAD CASE(S) Standard

 **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/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.sbcsccomponents.com)

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

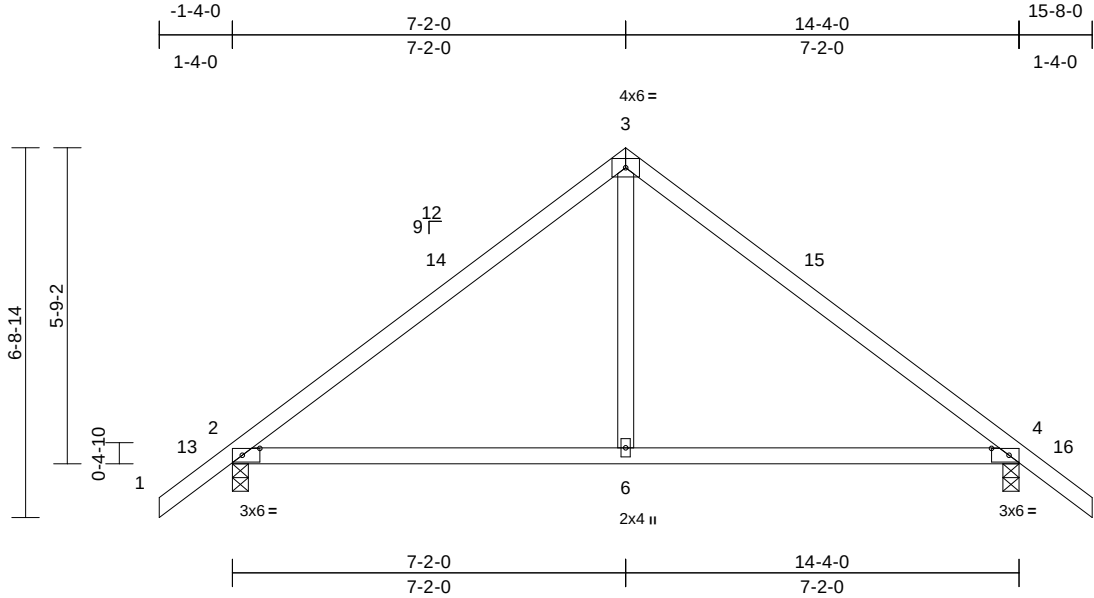
Job	Truss	Truss Type	Qty	Ply	Nagle Residence
P06023-114173	T2	Common	1	1	T41921907
					Job Reference (optional)

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

Run: 25.40 S Jul 9 2026 Print: 25.40 S Jul 9 2026 MiTek Industries, Inc. Mon Jul 20 11:50:01

Page: 1

ID:eKfCrHv9GnSVYiTiJddxfjy7uC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



Scale = 1:42

Plate Offsets (X, Y): [2:0-3-13,0-1-8], [4:0-3-13,0-1-8]

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	0.74	Vert(LL)	0.10	6-9	>999	240	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.17	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 61 lb	FT = 20%

LUMBER

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 3-11-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 4=0-3-8
Max Horiz 2=-158 (LC 10)
Max Uplift 2=-161 (LC 12), 4=-161 (LC 13)
Max Grav 2=738 (LC 1), 4=738 (LC 1)

FORCES

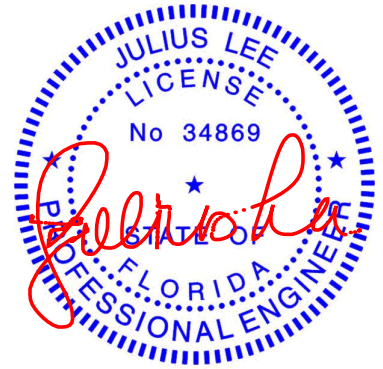
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/56, 2-3=-748/235, 3-4=-748/235, 4-5=0/56
BOT CHORD 2-6=-57/500, 4-6=-43/500
WEBS 3-6=-30/356

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-4-0 to 4-0-13, Zone1 4-0-13 to 7-2-0, Zone2 7-2-0 to 14-9-10, Zone1 14-9-10 to 15-8-0 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.
- 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 161 lb uplift at joint 2 and 161 lb uplift at joint 4.

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:

July 20,2026

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/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.sbcsccomponents.com)

MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

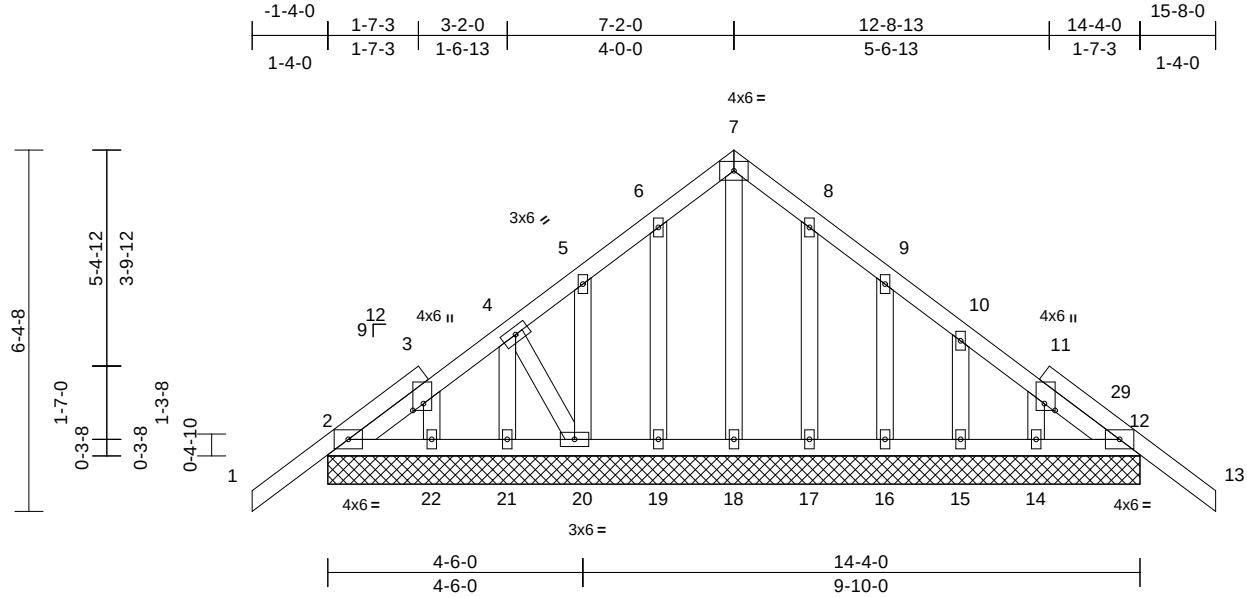
Job	Truss	Truss Type	Qty	Ply	Nagle Residence
P06023-114173	TE4	Common Supported Gable	1	1	Job Reference (optional)
					T41921908

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

Run: 25.40 S Jul 9 2026 Print: 25.40 S Jul 9 2026 MiTek Industries, Inc. Mon Jul 20 11:50:04

Page: 1

ID: 7iZhWIVfuHTYOMvEjjCt6SxxXcD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCdoi7J4zJC?f



Scale = 1:40.7

Plate Offsets (X, Y): [3:0-1-7,0-2-4], [11:0-1-7,0-2-4]

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	0.14	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	26	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
										Weight: 96 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	2=14-4-0, 12=14-4-0, 14=14-4-0, 15=14-4-0, 16=14-4-0, 17=14-4-0, 18=14-4-0, 19=14-4-0, 20=14-4-0, 21=14-4-0, 22=14-4-0
Max Horiz	2=-150 (LC 10)
Max Uplift	2=-45 (LC 13), 12=-26 (LC 13), 14=-42 (LC 13), 15=-60 (LC 13), 16=-64 (LC 13), 17=-54 (LC 13), 19=-59 (LC 12), 20=-109 (LC 12), 22=-39 (LC 12)
Max Grav	2=222 (LC 1), 12=200 (LC 1), 14=118 (LC 20), 15=131 (LC 20), 16=128 (LC 20), 17=131 (LC 20), 18=135 (LC 22), 19=136 (LC 19), 20=151 (LC 19), 21=96 (LC 1), 22=119 (LC 19)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/56, 2-3=-96/89, 3-4=-96/73, 4-5=-84/74, 5-6=-74/102, 6-7=-89/158, 7-8=-89/158, 8-9=-61/103, 9-10=-43/38, 10-11=-49/32, 11-12=-89/62, 12-13=0/56
BOT CHORD	2-22=-47/109, 21-22=-47/109, 20-21=-47/109, 19-20=-63/158, 18-19=-63/158, 17-18=-63/158, 16-17=-63/158, 15-16=-63/158, 14-15=-63/158, 12-14=-63/158

WEBS

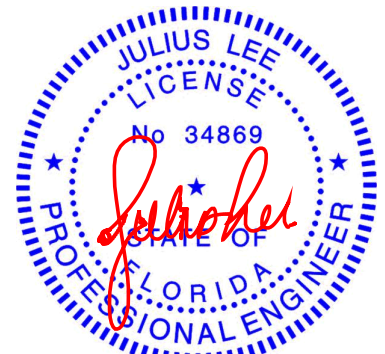
7-18=-122/26, 6-19=-109/83, 5-20=-98/93, 4-21=-68/0, 3-22=-95/65, 8-17=-105/81, 9-16=-102/98, 10-15=-102/94, 11-14=-97/76, 4-20=-50/91

12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 12.

LOAD CASE(S) Standard

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (I) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- 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 45 lb uplift at joint 2, 26 lb uplift at joint 12, 59 lb uplift at joint 19, 39 lb uplift at joint 22, 54 lb uplift at joint 17, 64 lb uplift at joint 16, 60 lb uplift at joint 15, 42 lb uplift at joint 14, 109 lb uplift at joint 20, 45 lb uplift at joint 2 and 26 lb uplift at joint 12.



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

July 20,2026

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/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.sbcsccomponents.com)

MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

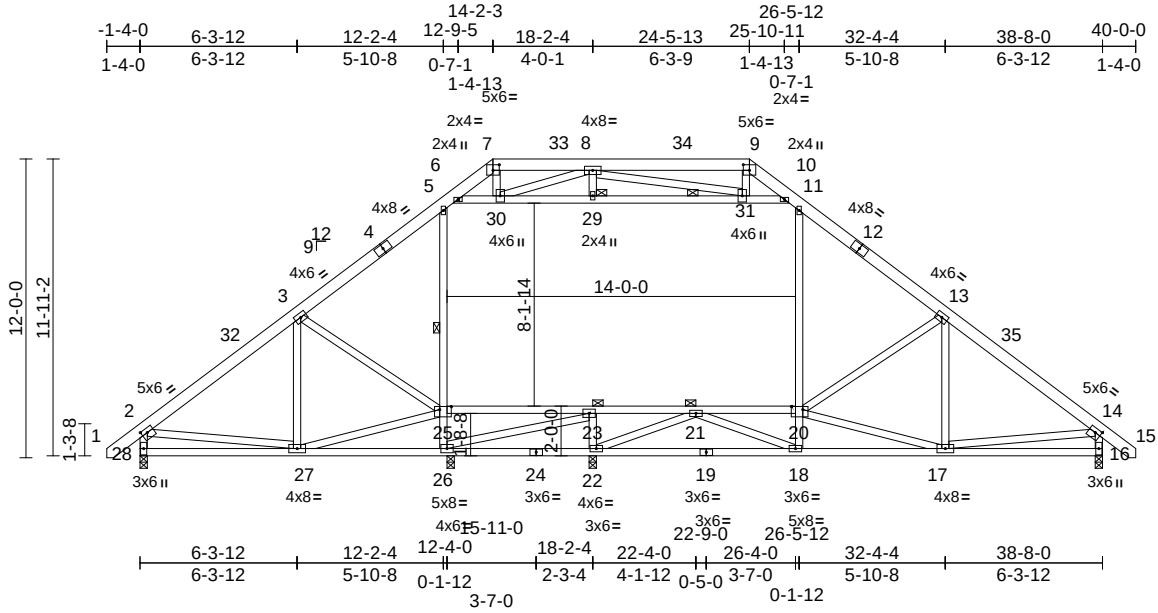
Job	Truss	Truss Type	Qty	Ply	Nagle Residence
P06023-114173	TA1	Attic	1	1	T41921909
					Job Reference (optional)

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Mon Jul 20 11:50:01

Page: 1

ID:FkLWeR1AAFeQRbEC2_20bByxWUW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

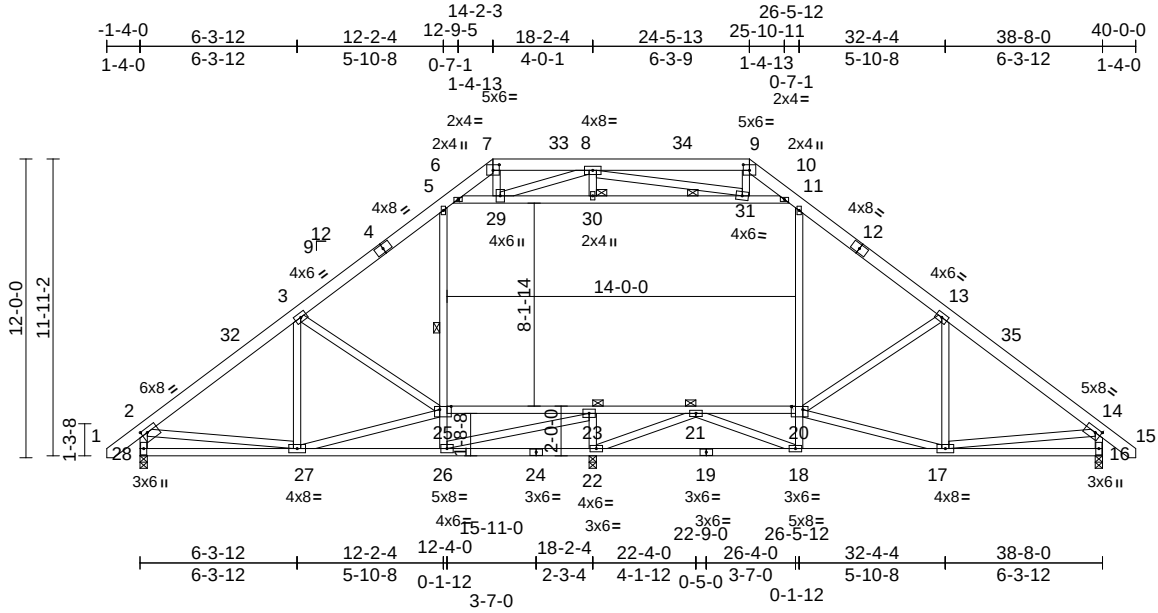


Job	Truss	Truss Type	Qty	Ply	Nagle Residence
P06023-114173	TA2	Attic	10	1	Job Reference (optional)
					T41921910

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Mon Jul 20 11:50:02
ID=y7ymU_yXnoNvDuhNluqwSWyxWMS-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:92.6

Plate Offsets (X, Y): [2:0-2-12,0-2-0], [7:0-3-0,0-2-12], [9:0-3-0,0-2-12], [14:0-2-12,0-2-0], [20:0-5-8,0-1-8], [25:0-5-8,0-1-8]

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	0.29	Vert(LL)	-0.13	23-25	>999	240	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.22	18-22	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.03	16	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS	Attic	-0.11	20-25	>999	360	Weight: 358 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 25-20:2x4 SP DSS
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-1-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-25, 10-30
JOINTS 1 Brace at Jt(s): 23, 30, 21

REACTIONS (size) 16=0-3-8, 22=0-3-8, 28=0-3-8
Max Horiz 28=321 (LC 11)
Max Uplift 16=-133 (LC 13), 28=-127 (LC 12)
Max Grav 16=1687 (LC 1), 22=1803 (LC 2), 28=1612 (LC 1)

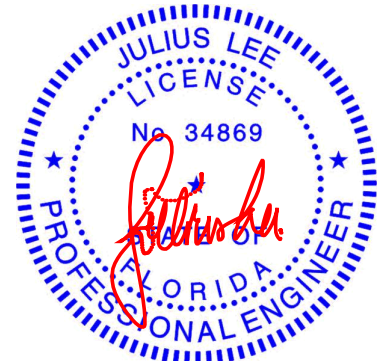
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/56, 2-3=-1893/97, 3-5=-1693/91, 5-6=-1339/159, 6-7=-749/213, 7-8=-548/192, 8-9=-558/258, 2-28=-1549/166, 14-16=-1622/153, 9-10=-718/286, 10-11=-1332/158, 11-13=-1708/89, 13-14=-1997/96, 14-15=0/56
BOT CHORD 27-28=-290/424, 26-27=-425/1187, 22-26=-776/86, 18-22=-11/926, 17-18=-133/1748, 16-17=-50/195, 23-25=-322/800, 21-23=0/1956, 20-21=-744/423

WEBS
3-27=-243/82, 25-26=-412/107, 5-25=-109/342, 18-20=-280/115, 11-20=-100/369, 13-17=-127/134, 6-29=-918/109, 29-30=-447/202, 30-31=-434/210, 10-31=-969/116, 2-27=0/1232, 14-17=0/1335, 22-23=-1078/0, 7-29=-85/371, 8-29=-868/271, 8-30=0/76, 8-31=-836/188, 9-31=-55/137, 23-26=-271/1820, 18-21=-188/1084, 21-22=-1780/39, 17-20=-416/328, 13-20=-463/317, 25-27=-191/765, 3-25=-317/320

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
 - 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-5 to 4-2-7, Zone1 4-2-7 to 14-2-3, Zone2 14-2-3 to 21-9-13, Zone1 21-9-13 to 24-5-13, Zone2 24-5-13 to 32-4-4, Zone1 32-4-4 to 39-10-5 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
 - 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 8) Ceiling dead load (5.0 psf) on member(s). 5-6, 6-29, 29-30, 30-31, 10-11; Wall dead load (10.0psf) on member(s).5-25, 11-20

- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 23-25, 21-23, 20-21
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 28 and 133 lb uplift at joint 16.
- 11) Attic room checked for L/360 deflection.

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:

July 20,2026

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/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.sbcsccomponents.com)

MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

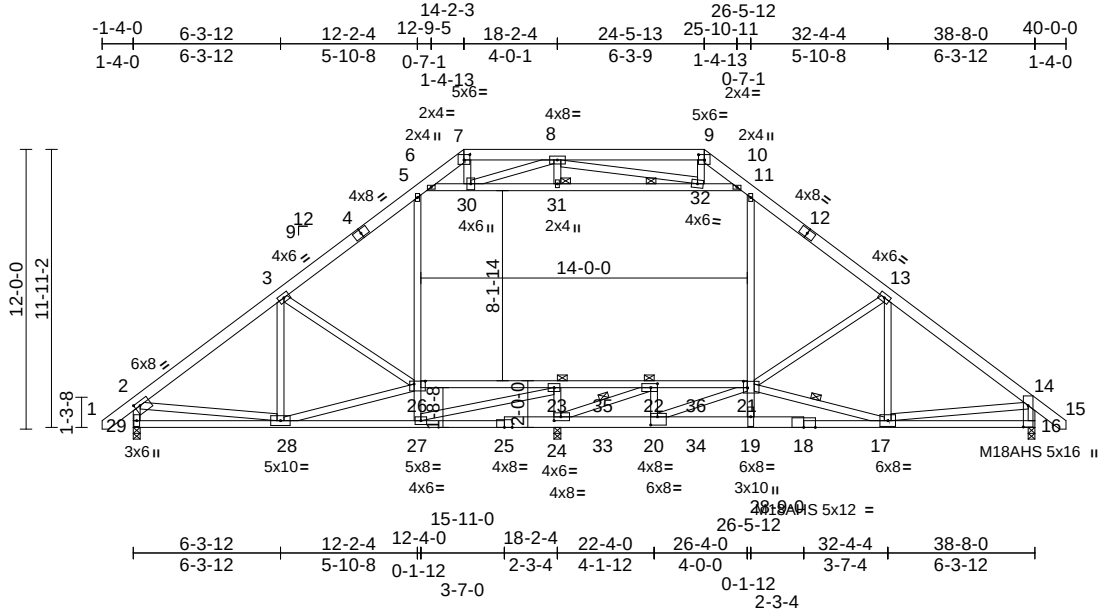
Job	Truss	Truss Type	Qty	Ply	Nagle Residence
P06023-114173	TAG1	Attic Girder	1	1	T41921911
					Job Reference (optional)

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

Run: 25.40 S Jul 9 2026 Print: 25.40 S Jul 9 2026 MiTek Industries, Inc. Mon Jul 20 11:50:02

Page: 1

ID:Yqp9DD1wPLq48gy9?AnydayxWHb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwCDoi7J4zJC?r



Scale = 1:98.8

Plate Offsets (X, Y): [2:0-2-12,0-2-0], [7:0-3-0,0-2-12], [9:0-3-0,0-2-12], [16:0-11-0,0-2-8], [20:0-3-8,0-4-4], [21:0-2-0,0-3-4], [22:0-3-8,0-2-0], [24:0-3-8,0-2-0], [26:0-5-12,0-1-8]

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	0.53	Vert(LL)	-0.22	21-22	>999	240	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.34	21-22	>721	180	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.05	16	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Attic	-0.17	21-26	>999	360	Weight: 369 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 26-21:2x4 SP DSS,
18-16:2x4 SP No.1, 25-18:2x6 SP DSS
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or
4-1-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing, Except:
6-0-0 oc bracing: 27-28
4-11-5 oc bracing: 24-27
4-4-12 oc bracing: 21-22.

WEBS 1 Row at midpt 10-31, 17-21, 22-24
JOINTS 1 Brace at Jt(s):
23, 31, 22

REACTIONS (size) 16=0-3-8, 24=0-3-8, 29=0-3-8
Max Horiz 29=321 (LC 7)
Max Uplift 29=100 (LC 8)
Max Grav 16=2339 (LC 2), 24=3010 (LC 14),
29=1696 (LC 2)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/56, 2-3=-2044/51, 3-5=-2217/0,
5-6=-1678/37, 6-7=-730/222, 7-8=-517/207,
8-9=-555/264, 2-29=-1633/118,
14-16=-2272/12, 9-10=-706/301,
10-11=-1643/48, 11-13=-2268/0,
13-14=-2949/0, 14-15=0/56
BOT CHORD 28-29=-287/433, 27-28=-829/909,
24-27=-1205/13, 20-24=0/3226,
19-20=0/4426, 17-19=0/4519, 16-17=-46/213,
23-26=0/2365, 22-23=0/2795,
21-22=-1715/238

WEBS 3-28=-602/0, 26-27=-314/137, 5-26=-40/673,
19-21=0/1320, 11-21=-13/851, 13-17=0/550,
6-30=-1439/0, 30-31=-876/86, 31-32=-861/95,
10-32=-1432/37, 2-28=0/1353, 14-17=0/2088,
17-21=-2522/0, 13-21=-906/245,
26-28=0/2073, 3-26=-211/416,
23-27=-376/1409, 23-24=-935/11,
7-30=-75/381, 8-30=-889/249, 8-31=0/93,
8-32=-838/189, 9-32=-76/112, 22-24=-4757/0,
20-22=0/1366, 20-21=-1552/75

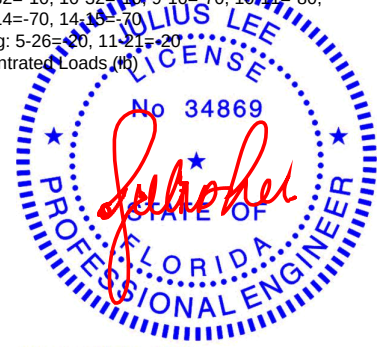
NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed; end vertical 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.
- All plates are MT20 plates unless otherwise indicated.
- 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.
- Ceiling dead load (5.0 psf) on member(s). 5-6, 6-30, 30-31, 31-32, 10-32, 10-11; Wall dead load (10.0psf) on member(s).5-26, 11-21
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 23-26, 22-23, 21-22

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 29.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 366 lb down at 20-1-12, 386 lb down at 22-1-12, and 386 lb down at 24-1-12, and 1139 lb down at 26-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- Attic room checked for L/360 deflection.
- 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: 1-2=-70, 2-5=-70, 5-6=-80, 6-7=-70, 7-9=-70, 16-29=-20, 21-26=-30, 6-30=-10, 30-31=-10, 31-32=-10, 10-32=-10, 9-10=-70, 10-11=-80, 11-14=-70, 14-15=-70
Drag: 5-26=-20, 11-21=-20
Concentrated Loads (lb)



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

July 20,2026

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 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 the 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 DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Nagle Residence
P06023-114173	TAG1	Attic Girder	1	1	T41921911
					Job Reference (optional)

Vert: 19=-272 (B), 20=-92 (B), 33=-85 (B), 34=-92 (B)

 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/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.sbcsccomponents.com)

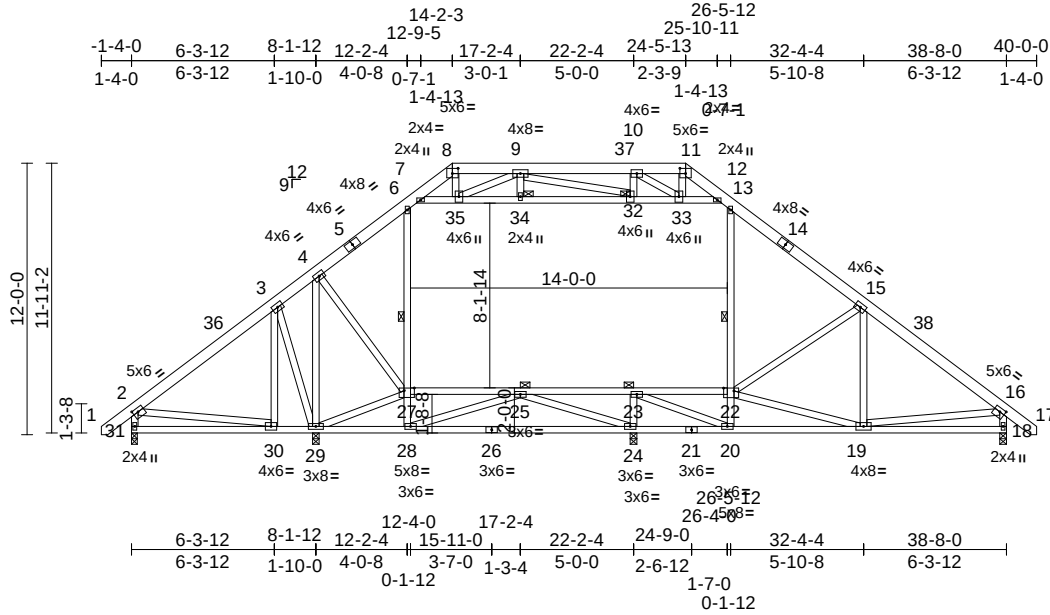
Job	Truss	Truss Type	Qty	Ply	Nagle Residence
P06023-114173	TA3	Attic	4	1	T41921912
					Job Reference (optional)

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Mon Jul 20 11:50:02

Page: 1

ID:NR?hFn5hMjme5aLLFW_dyxW21-RfC?PsB70Hq3NSgPqnl8w3uTXbGKwRCDoi7J4zJC?f



Scale = 1:101.8

Plate Offsets (X, Y): [2:0-2-12,0-2-0], [8:0-3-0,0-2-12], [11:0-3-0,0-2-12], [16:0-2-12,0-2-0], [22:0-5-8,0-1-8], [27:0-5-8,0-1-8]

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	0.26	Vert(LL)	-0.20	24-28	>862	240	MT20
TCDL	15.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.39	24-28	>434	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.02	18	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Attic	-0.10	22-27	>999	360	Weight: 374 lb FT = 20%

LUMBER		WEBS	27-28=0/344, 6-27=370/207, 20-22=-625/90, 13-22=-329/141, 15-19=-5/182, 7-35=-430/143, 34-35=-363/484, 32-34=-358/488, 32-33=-399/469, 12-33=-420/139, 2-30=-223/456, 16-19=0/978, 23-24=-1126/1, 20-23=-191/1798, 24-25=-1339/0, 25-28=-532/146, 3-29=-455/222, 3-30=0/223, 4-29=-1089/0, 27-29=-219/148, 4-27=0/827, 19-22=-160/81, 15-22=-460/285, 10-32=-34/126, 10-33=-753/288, 11-33=-100/383, 9-32=-80/26, 9-34=0/58, 9-35=-739/232, 8-35=-97/376	8) Ceiling dead load (5.0 psf) on member(s). 6-7, 7-35, 34-35, 32-34, 32-33, 12-33, 12-13; Wall dead load (10.0psf) on member(s).6-27, 13-22
TOP CHORD	2x6 SP No.2			9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 25-27, 23-25, 22-23
BOT CHORD	2x4 SP No.2			10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 172 lb uplift at joint 31, 155 lb uplift at joint 18 and 134 lb uplift at joint 29.
WEBS	2x4 SP No.2			11) Attic room checked for L/360 deflection.
BRACING				LOAD CASE(S) Standard
TOP CHORD	Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.			
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 20-24,22-23.			
WEBS	1 Row at midpt 6-27, 13-22			
JOINTS	1 Brace at Jt(s): 23, 25, 32, 34			

REACTIONS	(size)	18=0-3-8, 24=0-3-8, 29=0-3-8, 31=0-3-0
	Max Horiz	31=321 (LC 11)
	Max Uplift	18=-155 (LC 13), 29=-134 (LC 12), 31=-172 (LC 13)
	Max Grav	18=1363 (LC 1), 24=1703 (LC 21), 29=1592 (LC 20), 31=857 (LC 1)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/56, 2-3=-838/285, 3-4=-667/295, 4-6=-1077/146, 6-7=-1000/178, 7-8=-749/201, 8-9=-562/176, 9-10=-1181/395, 10-11=-552/159, 2-31=-797/206, 16-18=-1303/178, 11-12=-742/189, 12-13=-1000/175, 13-15=-1162/110, 15-16=-1551/126, 16-17=0/56
BOT CHORD	30-31=-295/392, 29-30=-99/569, 28-29=-75/480, 24-28=-43/804, 20-24=-587/115, 19-20=-61/1213, 18-19=-54/173, 25-27=-54/448, 23-25=0/1264, 22-23=-488/313

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3-1-2-5 to 4-2-7, Zone1 4-2-7 to 14-2-3, Zone2 14-2-3 to 21-9-13, Zone1 21-9-13 to 24-5-13, Zone2 24-5-13 to 32-4-4, Zone1 32-4-4 to 39-10-5 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.
- 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.



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

July 20,2026

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/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinet.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

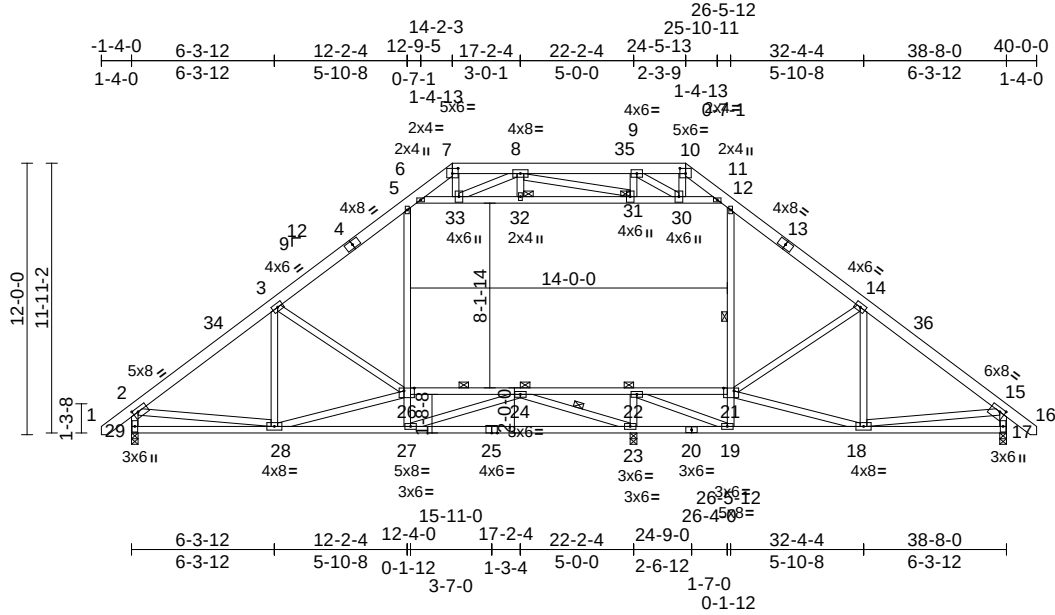
Job	Truss	Truss Type	Qty	Ply	Nagle Residence
P06023-114173	TA4	Attic	3	1	T41921913
					Job Reference (optional)

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

Run: 25.40 S Jul 9 2026 Print: 25.40 S Jul 9 2026 MiTek Industries, Inc. Mon Jul 20 11:50:02

Page: 1

ID:HE9B0fdRb9UiefQ1abDs5yxW6W-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:101.8

Plate Offsets (X, Y): [2:0-2-12,0-2-0], [7:0-3-0,0-2-12], [10:0-3-0,0-2-12], [15:0-2-12,0-2-0], [21:0-5-8,0-1-8], [26:0-5-8,0-1-8]

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	0.30	Vert(LL)	-0.22	23-27	>999	240	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.49	23-27	>540	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	23	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Attic	-0.12	21-26	>999	360	Weight: 359 lb	FT = 20%

LUMBER		WEBS	3-28=-49/149, 26-27=-171/110, 5-26=-58/449, 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 24-26, 22-24, 21-22
TOP CHORD	2x6 SP No.2		19-21=-431/145, 12-21=-133/400,
BOT CHORD	2x4 SP No.2 *Except* 26-21:2x4 SP No.1		14-18=-427/103, 6-33=-911/115,
WEBS	2x4 SP No.2		32-33=-523/100, 31-32=-515/106,

BRACING			30-31=-818/87, 11-30=-1094/135,
TOP CHORD	Structural wood sheathing directly applied or 4-11-11 oc purlins, except end verticals.		2-28=0/1455, 15-18=0/1181, 22-23=-943/45,
BOT CHORD	Rigid ceiling directly applied or 2-4-4 oc bracing.		19-22=-334/1294, 23-24=-2274/0,

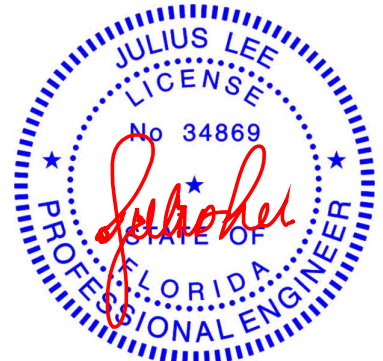
WEBS	1 Row at midpt	12-21, 23-24	24-27=-182/1028, 26-28=-529/18,
JOINTS	1 Brace at Jt(s):		3-26=-495/282, 18-21=-235/1417,

	22, 24, 31, 32		14-21=-278/353, 10-30=-102/431,
			9-30=-670/286, 9-31=-42/64, 8-32=0/74,
			7-33=-98/372, 8-33=-718/242, 8-31=-303/34

REACTIONS	(size)	17=0-3-8, 23=0-3-8, 29=0-3-8	NOTES
	Max Horiz	29=321 (LC 11)	1) Unbalanced roof live loads have been considered for this design.
	Max Uplift	17=-104 (LC 13), 29=-133 (LC 12)	2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
	Max Grav	17=1571 (LC 1), 23=1763 (LC 21), 29=1763 (LC 20)	3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-5 to 4-2-7, Zone1 4-2-7 to 14-2-3, Zone2 14-2-3 to 21-9-13, Zone1 21-9-13 to 24-5-13, Zone2 24-5-13 to 32-4-4, Zone1 32-4-4 to 39-10-5 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

FORCES	(lb) - Maximum Compression/Maximum Tension		4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
TOP CHORD	1-2=0/56, 2-3=-2139/97, 3-5=-1803/67, 5-6=-1358/151, 6-7=-766/197, 7-8=-587/171, 8-9=-1059/437, 9-10=-497/197, 2-29=-1697/153, 15-17=-1509/168, 10-11=-705/214, 11-12=-1377/154, 12-14=-1768/112, 14-15=-1835/99, 15-16=0/56		5) Provide adequate drainage to prevent water ponding.
BOT CHORD	28-29=-292/432, 27-28=-199/2294, 23-27=-96/1497, 19-23=-767/78, 18-19=-317/738, 17-18=-48/195, 24-26=-926/253, 22-24=0/2039, 21-22=-375/1505		6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

			7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
			8) Ceiling dead load (5.0 psf) on member(s). 5-6, 6-33, 32-33, 31-32, 30-31, 11-30, 11-12; Wall dead load (10.0psf) on member(s).5-26, 12-21



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

July 20,2026

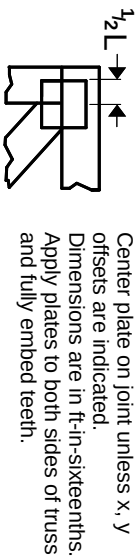
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/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.sbcsccomponents.com)

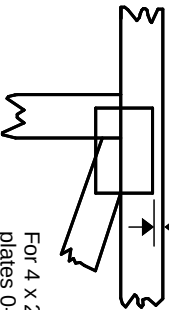
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Symbols

PLATE LOCATION AND ORIENTATION



0- $\frac{1}{16}$ "



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

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

* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

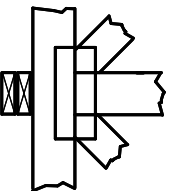
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

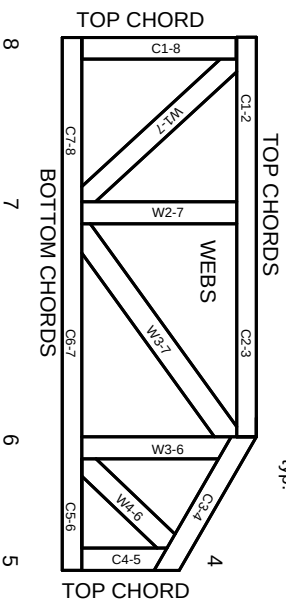
Numbering System

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

1

2

3 Joint ID typ.



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

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

© 2023 MITek® All Rights Reserved

MITek®

MITek Engineering Reference Sheet: MIL-7473 rev. 1/12/2023



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.