MiTek®

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

RE: 4717087 - CANTER RES.

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: RJH CONSTRUCTION Project Name: Canter Res. Model: Custom
Lot/Block: 6 Subdivision: Cannon Creek
Address: TBD, TBD
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 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: 55.0 psf

This package includes 22 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.

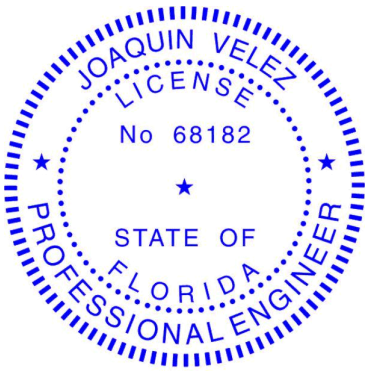
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T37838065	F01	7/8/25	15	T37838079	T06	7/8/25
2	T37838066	F02	7/8/25	16	T37838080	T06G	7/8/25
3	T37838067	F03	7/8/25	17	T37838081	T07	7/8/25
4	T37838068	F04	7/8/25	18	T37838082	T08	7/8/25
5	T37838069	KW3	7/8/25	19	T37838083	T08G	7/8/25
6	T37838070	PB01	7/8/25	20	T37838084	T09	7/8/25
7	T37838071	PB01G	7/8/25	21	T37838085	T10	7/8/25
8	T37838072	T01	7/8/25	22	T37838086	T11	7/8/25
9	T37838073	T01G	7/8/25				
10	T37838074	T02	7/8/25				
11	T37838075	T03	7/8/25				
12	T37838076	T04	7/8/25				
13	T37838077	T04G	7/8/25				
14	T37838078	T05	7/8/25				

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: Velez, Joaquin
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.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 8,2025

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838065
4717087	F01	FLOOR	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:16 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-l0?Dqjv9dNS0VhoTnjnnXcIzndpzWd5g8sNJ8ez_Qoz

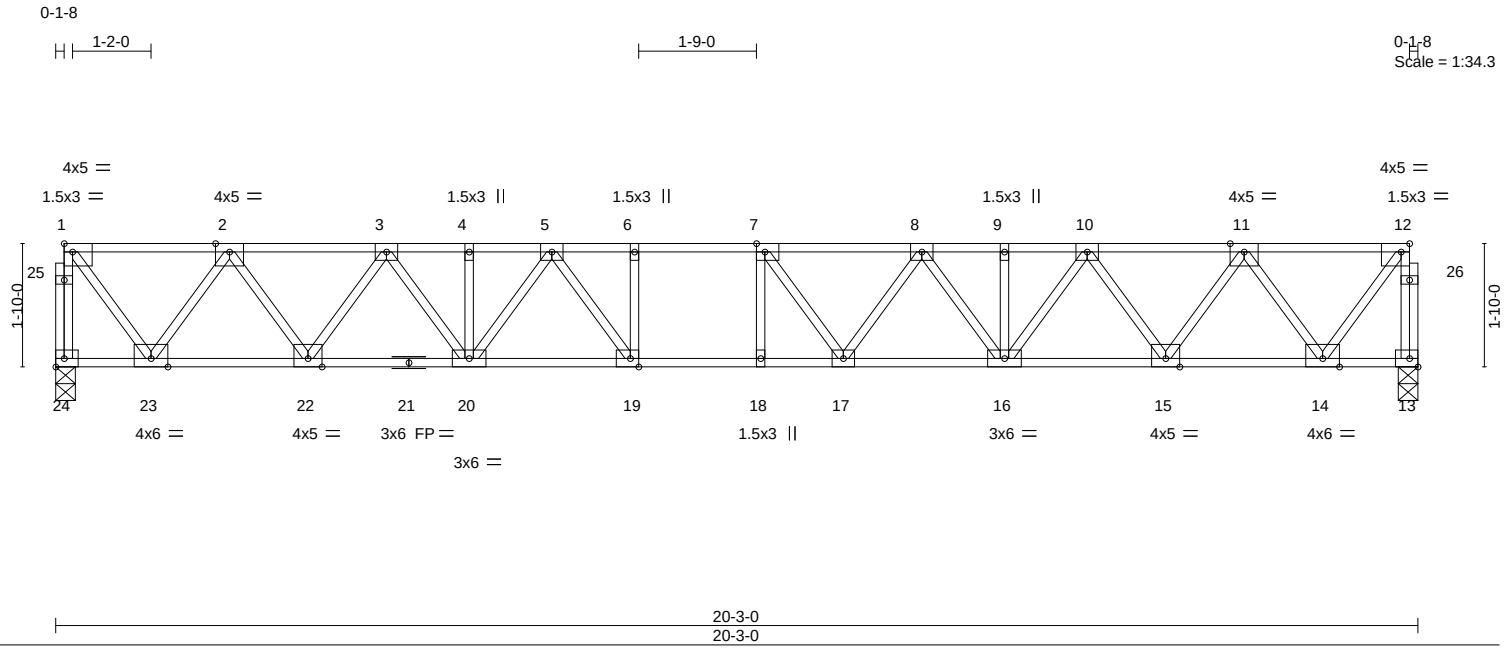


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.20	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.28	17-18	>857	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.05	13	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 122 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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) 24=0-3-8, 13=0-3-8
Max Grav 24=1094(LC 1), 13=1094(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-24=-1088/0, 12-13=-1088/0, 1-2=-754/0, 2-3=-1899/0, 3-4=-2706/0, 4-5=-2706/0, 5-6=-3193/0, 6-7=-3193/0, 7-8=-3117/0, 8-9=-2705/0, 9-10=-2705/0, 10-11=-1898/0, 11-12=-754/0
BOT CHORD 22-23=0/1420, 20-22=0/2355, 19-20=0/2979, 18-19=0/3193, 17-18=0/3193, 16-17=0/2998, 15-16=0/2358, 14-15=0/1420
WEBS 12-14=0/1223, 1-23=0/1222, 11-14=-1181/0, 2-23=-1182/0, 11-15=0/848, 2-22=0/848, 10-15=-816/0, 3-22=-810/0, 10-16=0/593, 3-20=0/601, 8-16=-503/0, 5-20=-477/0, 8-17=0/360, 5-19=-29/617, 7-17=-438/184, 6-19=-297/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

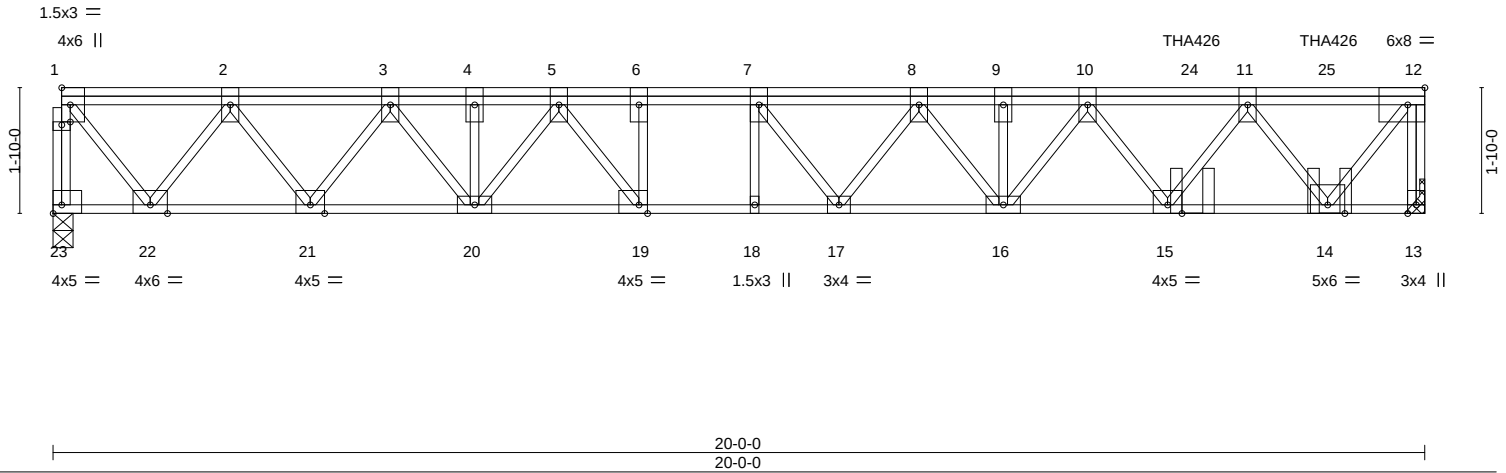
July 8,2025

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

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838066
4717087	F02	FLOOR GIRDER	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:16 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-l0?Dqjv9dNS0VhoTnjnnXcI6FdrJWcwg8sNJ8ez_Qoz

0-1-8
1-2-0
1-6-0
Scale = 1:33.6



20-0-0
20-0-0

Plate Offsets (X,Y)-- [1:0-1-8,0-0-8], [12:0-3-0,Edge], [19:0-1-8,Edge], [23:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	-0.13	18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.19	18	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.05	13	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 148 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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) 23=0-3-8, 13=Mechanical
Max Grav 23=1103(LC 1), 13=1218(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-23=-1097/0, 12-13=-1211/0, 1-2=-787/0, 2-3=-1970/0, 3-4=-2822/0, 4-5=-2822/0, 5-6=-3327/0, 6-7=-3327/0, 7-8=-3263/0, 8-9=-2895/0, 9-10=-2895/0, 10-11=-2092/0, 11-12=-852/0
BOT CHORD 21-22=0/1475, 20-21=0/2446, 19-20=0/3086, 18-19=0/3327, 17-18=0/3327, 16-17=0/3174, 15-16=0/2556, 14-15=0/1609
WEBS 12-14=0/1380, 1-22=0/1264, 11-14=-1309/0, 2-22=-1191/0, 11-15=0/834, 2-21=0/856, 10-15=-803/0, 3-21=-823/0, 10-16=0/567, 3-20=0/629, 8-16=-466/0, 5-20=-440/0, 8-17=-83/319, 5-19=0/670, 7-17=-316/163, 6-19=-455/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.
5) CAUTION, Do not erect truss backwards.
6) Use Simpson Strong-Tie THA426 (8-16d Girder, 6-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 16-7-6 from the left end to 18-7-6 to connect truss(es) to front face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) 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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-23=-10, 1-12=-100
Concentrated Loads (lb)
Vert: 24=-74(F) 25=-74(F)

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838067
4717087	F03	FLOOR	8	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:17 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-DCZc13wnNgat6rNfLQI03qrA41A_F4HpNW6tg5z_Qoy

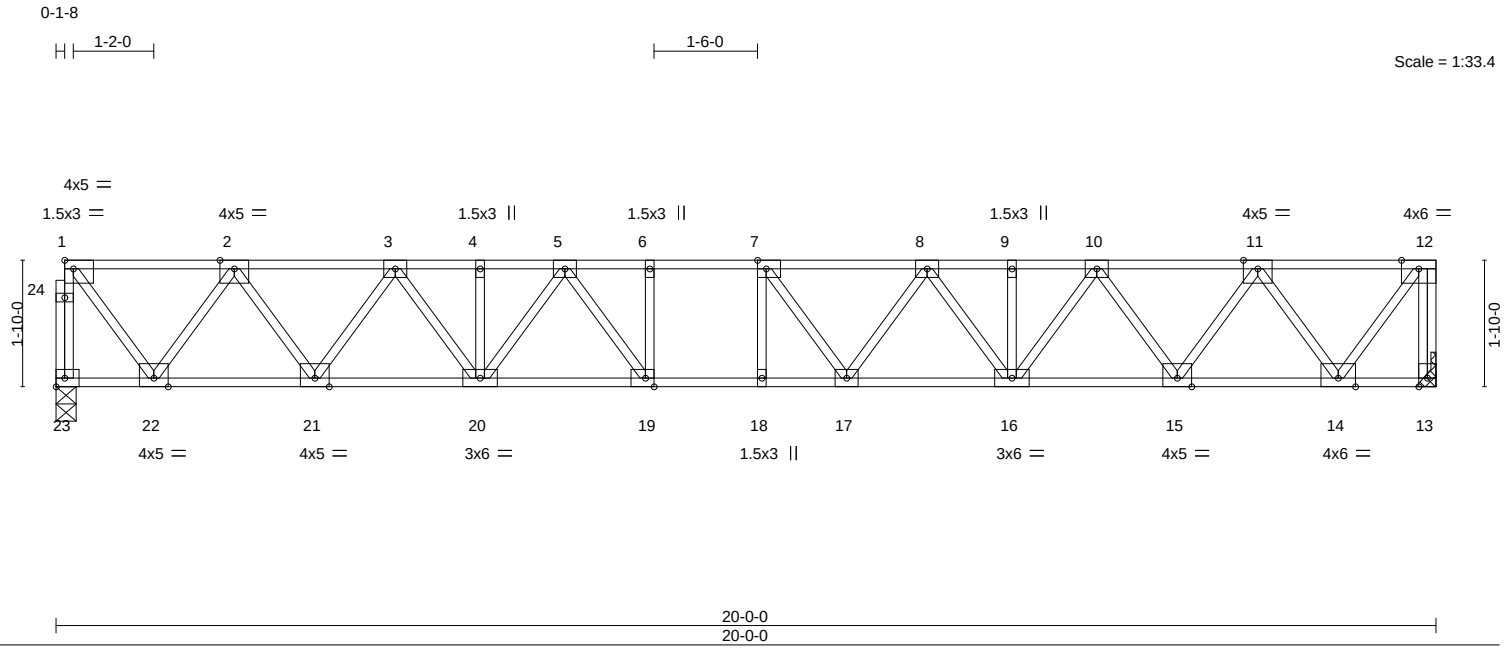


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.19	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.26	17-18	>905	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.05	13	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 122 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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) 23=0-3-8, 13=Mechanical
Max Grav 23=1080(LC 1), 13=1086(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-23=-1074/0, 12-13=-1080/0, 1-2=-743/0, 2-3=-1869/0, 3-4=-2658/0, 4-5=-2658/0, 5-6=-3117/0, 6-7=-3117/0, 7-8=-3049/0, 8-9=-2656/0, 9-10=-2656/0, 10-11=-1869/0, 11-12=-743/0
BOT CHORD 21-22=0/1401, 20-21=0/2317, 19-20=0/2922, 18-19=0/3117, 17-18=0/3117, 16-17=0/2940, 15-16=0/2319, 14-15=0/1401
WEBS 12-14=0/1231, 1-22=0/1206, 11-14=-1168/0, 2-22=-1165/0, 11-15=0/829, 2-21=0/831, 10-15=-798/0, 3-21=-794/0, 10-16=0/578, 3-20=0/584, 8-16=-486/0, 5-20=-459/0, 8-17=-6/341, 5-19=-43/574, 7-17=-407/183, 6-19=-266/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.
5) CAUTION, Do not erect truss backwards.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838068
4717087	F04	FLOOR	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:17 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-DCZc13wnNgat6rNfLQI03qrIx1IpFCOpNW6tg5z_Qoy

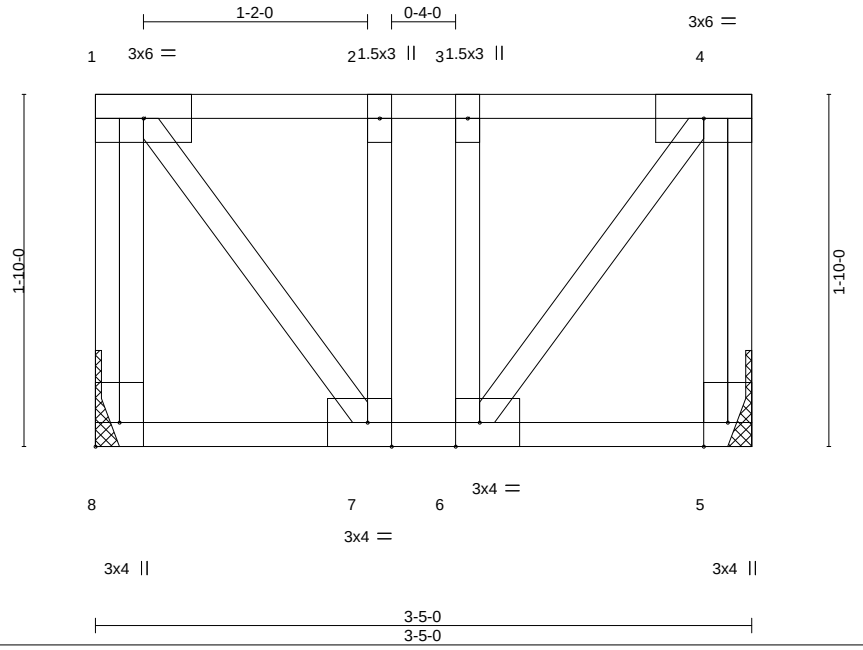


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	-0.00	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.05	Vert(CT)	-0.00	7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 30 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 5=Mechanical
Max Grav 8=174(LC 1), 5=174(LC 1)

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

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

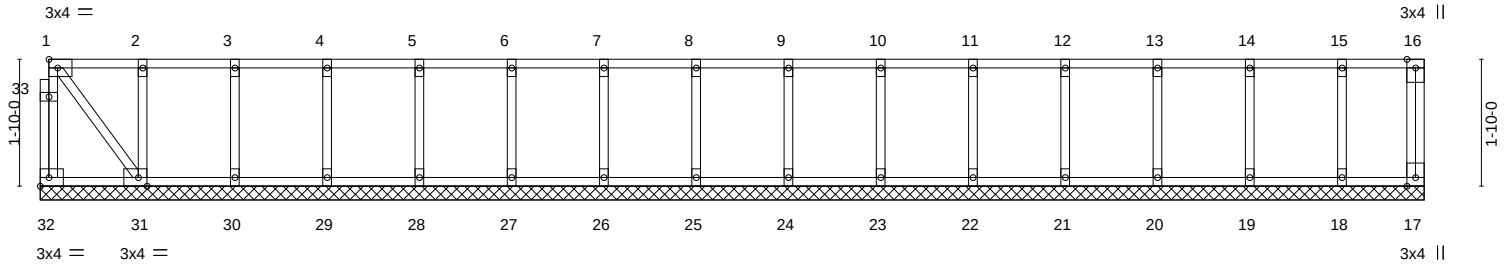
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838069
4717087	KW3	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:18 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-hP7_FPwP8_ijk?ysu8pFc1OTzRej_g9ybAsQDXz_Qox

0-1-8

Scale = 1:33.3



1-5-12	2-9-12	4-1-12	5-5-12	6-9-12	8-1-12	9-5-12	10-9-12	12-1-12	13-5-12	14-9-12	16-1-12	17-5-12	18-9-12	20-0-0
1-5-12	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-4

Plate Offsets (X,Y)-- [31:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	17	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 104 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

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

REACTIONS. All bearings 20-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.
6) CAUTION, Do not erect truss backwards.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

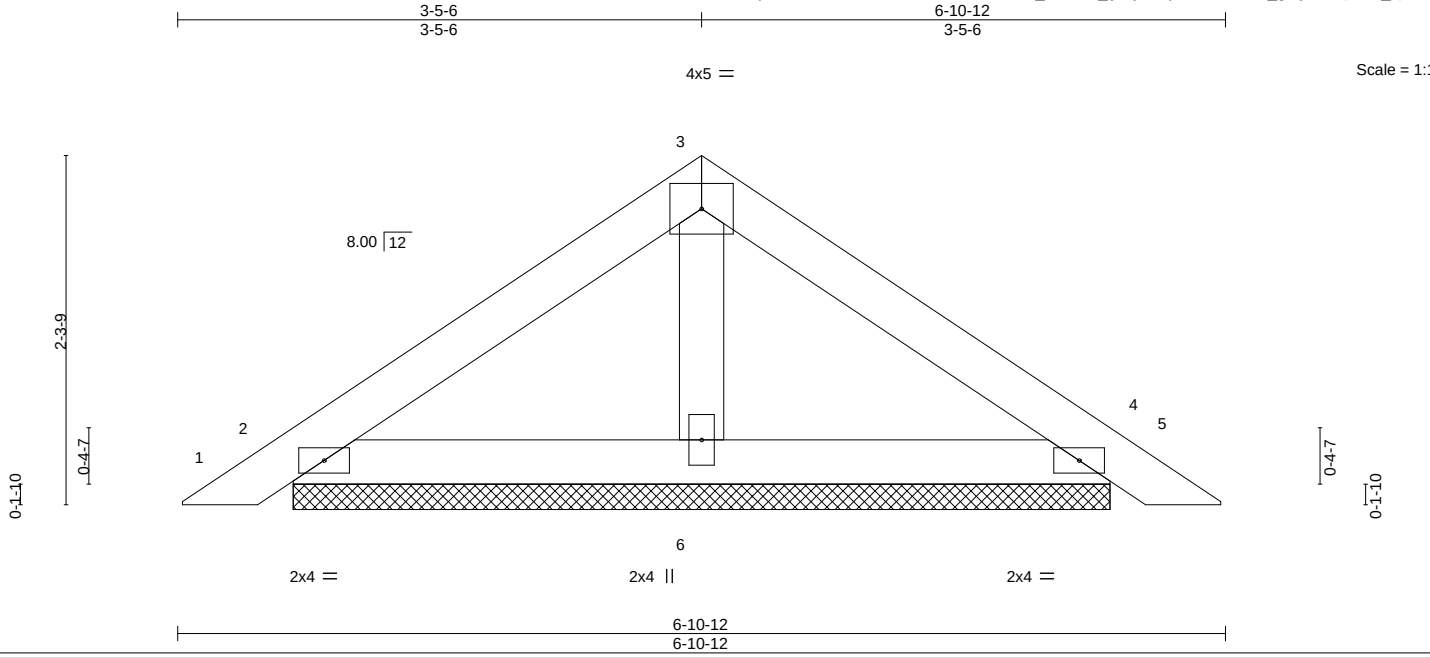
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838070
4717087	PB01	PIGGYBACK	31	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:18 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-hP7_FPwP8_ijk?ysu8pFc1OTkRe7_gOybAsQDXz_Qox



LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 22 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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=5-4-8, 4=5-4-8, 6=5-4-8
Max Horz 2=35(LC 11)
Max Uplift 2=-34(LC 12), 4=-39(LC 13), 6=-13(LC 12)
Max Grav 2=98(LC 1), 4=98(LC 1), 6=129(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 2, 39 lb uplift at joint 4 and 13 lb uplift at joint 6.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

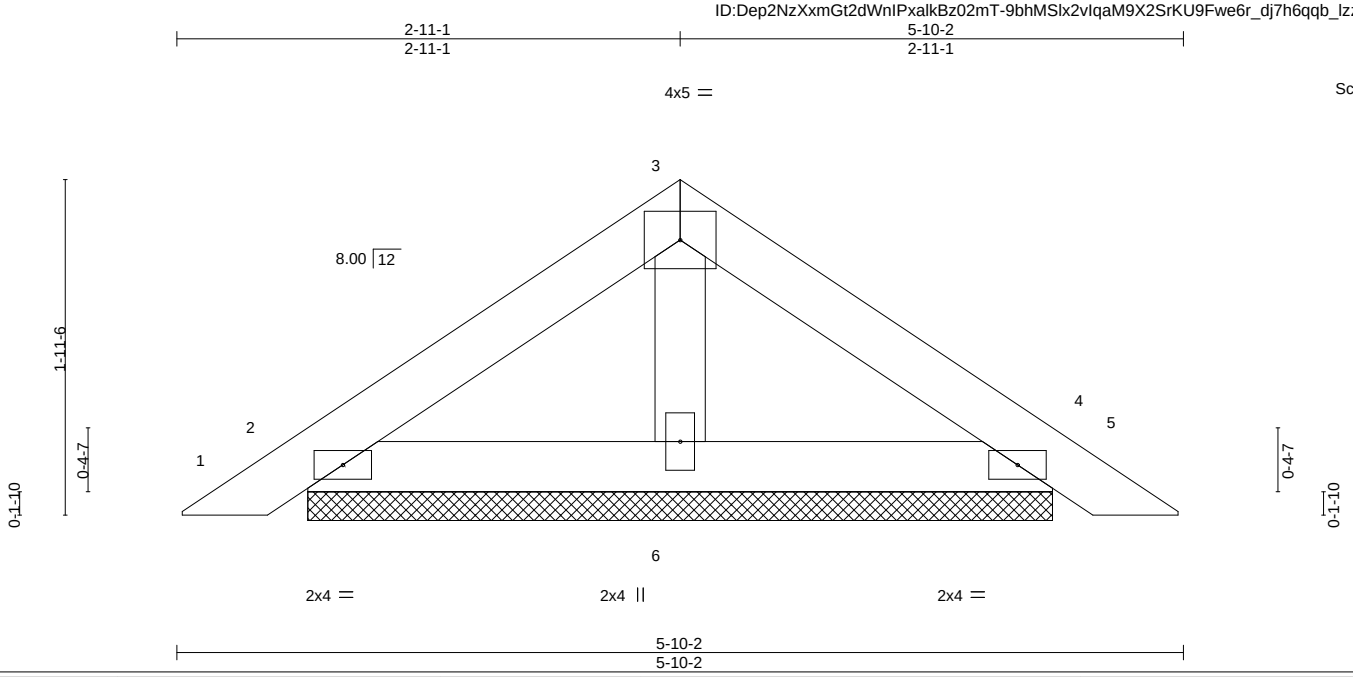
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838071
4717087	PB01G	GABLE	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:19 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-9bhMSlx2vIqaM9X2SrKU9Fwe6r_dj7h6qqb_lzz_Qow



LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.06	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 19 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=4-3-14, 4=4-3-14, 6=4-3-14
Max Horz 2=29(LC 11)
Max Uplift 2=-30(LC 12), 4=-33(LC 13), 6=-9(LC 12)
Max Grav 2=83(LC 1), 4=83(LC 1), 6=102(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 2, 33 lb uplift at joint 4 and 9 lb uplift at joint 6.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838072
4717087	T01	Attic	17	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:20 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-dnFkg5yggbyR_I6E0YrjhSThgEC1SO1F3ULXHPz_Qov

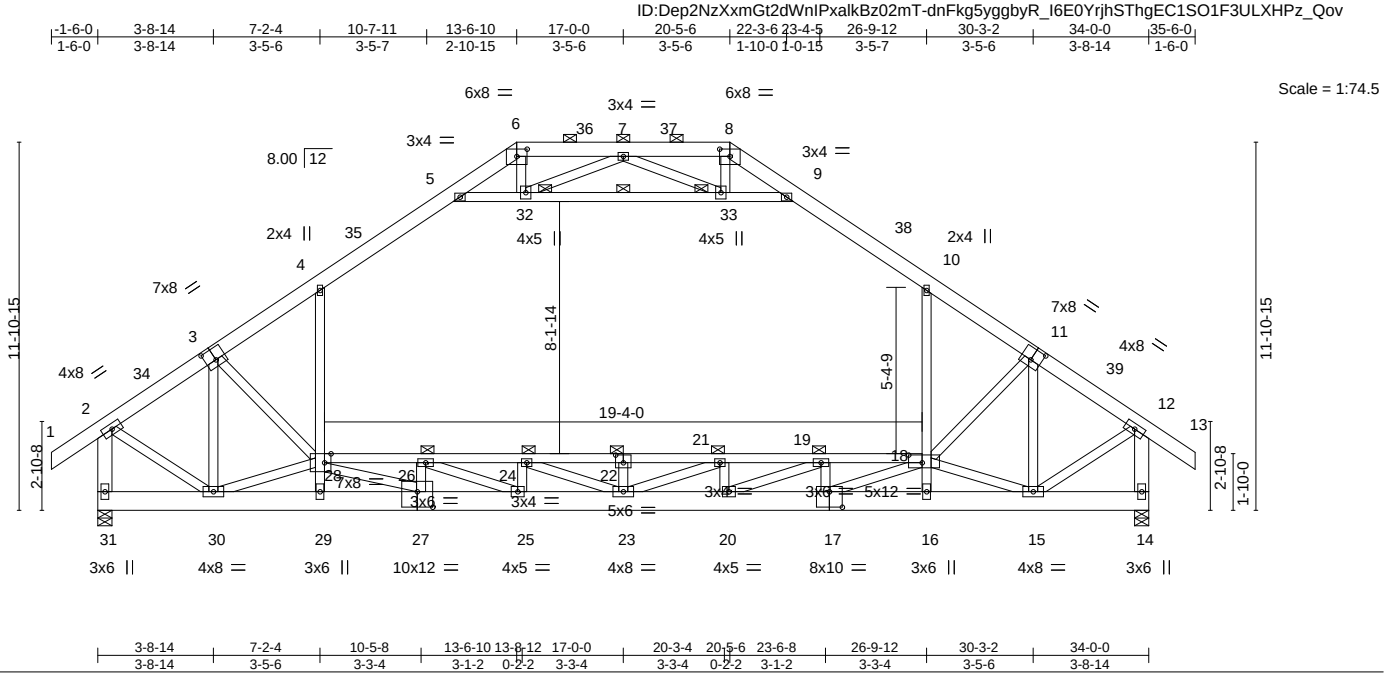


Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [6:0-4-0,0-2-13], [8:0-4-0,0-2-13], [11:0-4-0,0-4-8], [17:0-5-0,0-6-0], [18:0-5-4,0-3-0], [22:0-3-0,0-3-0], [27:0-6-0,0-6-0], [28:0-2-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.28	22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.52	22	>773	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.04	14	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS		Attic	-0.14	18-28	1700	360	Weight: 377 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
3-6,8-11: 2x6 SP 2400F 2.0E or 2x6 SP M 26
BOT CHORD 2x8 SP 2400F 2.0E *Except*
22-28,18-22: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
2-31,12-14: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 32-33
JOINTS 1 Brace at Jt(s): 22, 26, 32, 33, 24, 21, 19

REACTIONS. (size) 31=0-5-8, 14=0-5-8
Max Horz 31=225(LC 11)
Max Uplift 31=-40(LC 12), 14=-40(LC 13)
Max Grav 31=1588(LC 2), 14=1588(LC 2)

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

TOP CHORD 2-3=-1307/16, 3-4=-1593/13, 4-5=-1180/95, 5-6=-162/378, 6-7=-31/526, 7-8=-31/526, 8-9=-162/378, 9-10=-1180/96, 10-11=-1593/15, 11-12=-1307/16, 2-31=-1532/50, 12-14=-1532/50
BOT CHORD 29-30=-211/1818, 27-29=-221/1809, 25-27=0/3074, 23-25=0/3918, 20-23=0/3918, 17-20=0/2932, 16-17=-172/1669, 15-16=-161/1678, 26-28=-1843/0, 24-26=-2911/0, 22-24=-3181/0, 21-22=-3181/0, 19-21=-2911/0, 18-19=-1875/1
WEBS 3-30=-657/55, 4-28=0/822, 5-32=-1570/2, 32-33=-1359/0, 9-33=-1578/6, 10-18=0/822, 11-15=-667/67, 2-30=0/1296, 12-15=0/1296, 22-23=-258/0, 26-27=-715/0, 27-28=0/1632, 7-32=-303/111, 7-33=-303/112, 28-30=-661/191, 15-18=-693/202, 24-25=-369/0, 25-26=0/1098, 23-24=-85/355, 20-21=-369/0, 17-19=-715/0, 17-18=0/1632, 21-23=-92/360, 19-20=0/1098

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 13-6-10, Zone2 13-6-10 to 18-4-5, Zone1 18-4-5 to 20-5-6, Zone2 20-5-6 to 25-3-1, Zone1 25-3-1 to 35-6-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-32, 32-33, 9-33; Wall dead load (5.0psf) on member(s).4-28, 10-18
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 26-28, 24-26, 22-24, 21-22, 19-21, 18-19

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

Continued on page 2

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

NOTES-

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 31 and 40 lb uplift at joint 14.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Attic room checked for L/360 deflection.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838073
4717087	T01G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:21 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-5_p6tRzIRv4IbShRaGMyEg0y7eg4B?7PH844qsz_Qou

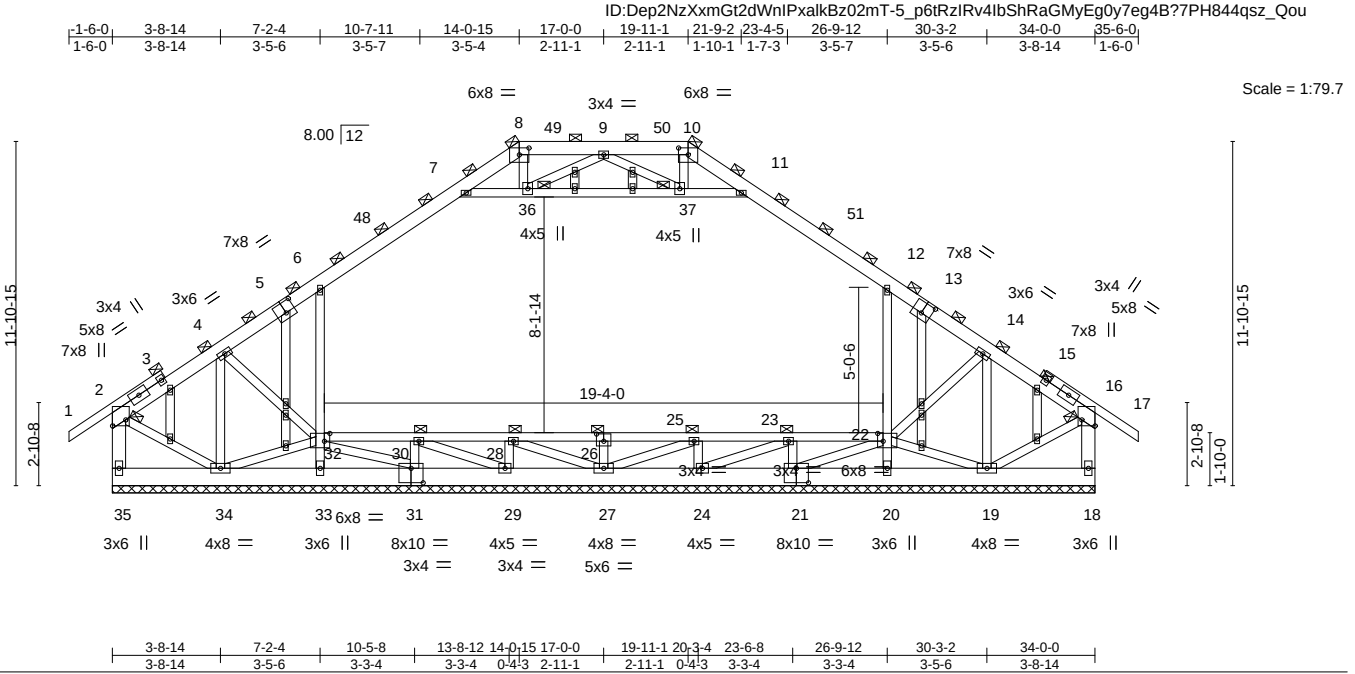


Plate Offsets (X,Y)-- [2:Edge,0-5-8], [5:0-4-0,0-4-8], [8:0-4-0,0-2-13], [10:0-4-0,0-2-13], [13:0-4-0,0-4-8], [16:Edge,0-5-8], [21:0-5-0,0-6-0], [22:0-2-4,0-3-4], [26:0-3-0,0-3-0], [31:0-5-0,0-6-0], [32:0-2-4,0-3-4]

LOADING (psf)		SPACING- 1-4-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	-0.00	17	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.01	16-17	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	18	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 394 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2 *Except* 1-3,15-17: 2x4 SP No.2
BOT CHORD	2x8 SP 2400F 2.0E *Except* 26-32,22-26: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
WEBS	2x4 SP No.3 *Except* 2-35,16-18: 2x6 SP No.2
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 8, 10, 2, 16, 26, 30, 36, 37, 28, 25, 23

REACTIONS. All bearings 34-0-0.
(lb) - Max Horz 35=221(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 35, 34, 19, 18 except 33=-121(LC 12), 20=-116(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 34, 19, 27, 31, 29, 24, 21 except 35=558(LC 1), 33=276(LC 20), 20=263(LC 21), 18=558(LC 1)

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

TOP CHORD	2-4=-396/79, 4-6=-624/122, 6-7=-666/158, 7-8=-378/104, 8-9=-320/113, 9-10=-320/112, 10-11=-378/103, 11-12=-666/157, 12-14=-624/121, 14-16=-396/75, 2-35=-531/96, 16-18=-531/91
BOT CHORD	33-34=-87/258, 31-33=-97/281, 29-31=-75/315, 27-29=-77/350, 24-27=-74/350, 21-24=-65/315, 20-21=-33/270, 19-20=-48/257
WEBS	4-34=-410/64, 4-32=-19/256, 6-32=-310/166, 12-22=-310/165, 14-22=-33/256, 14-19=-410/68, 2-34=-87/343, 16-19=-75/343

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 14-0-15, Zone2 14-0-15 to 18-10-10, Zone1 18-10-10 to 19-11-1, Zone2 19-11-1 to 24-8-12, Zone1 24-8-12 to 35-6-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

NOTES-

10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Ceiling dead load (5.0 psf) on member(s). 6-7, 11-12, 7-36, 36-37, 11-37; Wall dead load (5.0psf) on member(s).6-32, 12-22
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 35, 34, 19, 18 except (jt=lb) 33=121, 20=116.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Attic room checked for L/360 deflection.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838074
4717087	T02	Attic	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:22 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-ZANV4nzwCDC9DcGd7zuBmtY6F2xLwKjYWoqeMIz_Qot

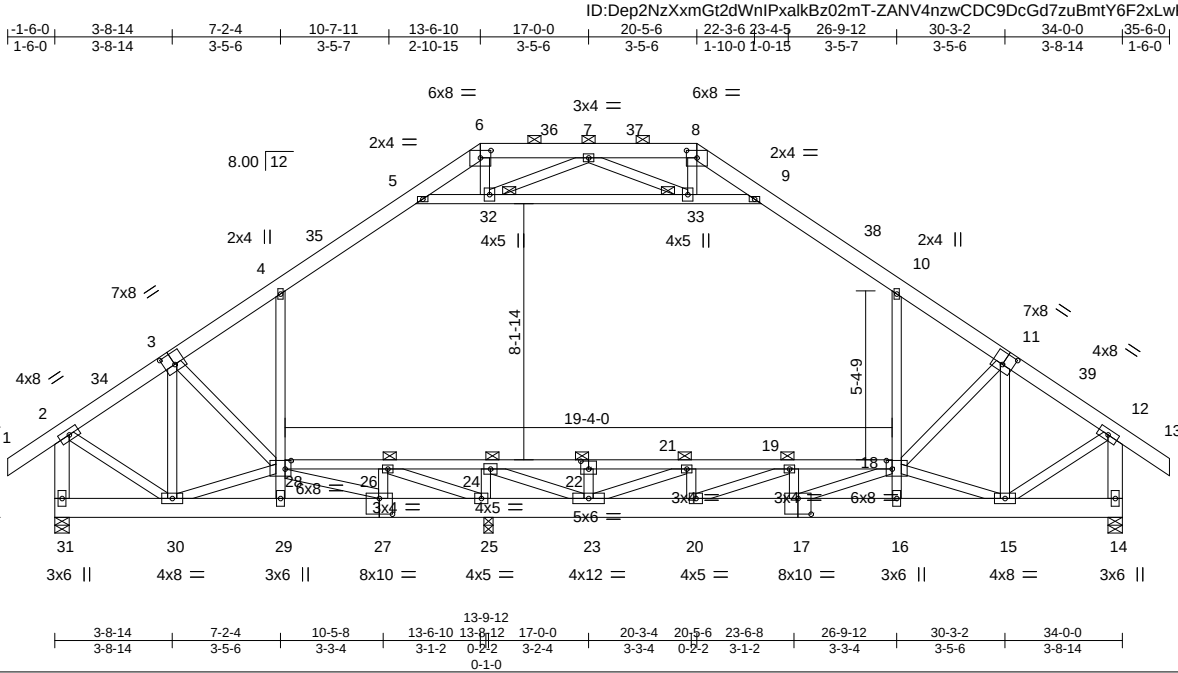


Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [6:0-4-0,0-2-13], [8:0-4-0,0-2-13], [11:0-4-0,0-4-8], [17:0-5-0,0-6-0], [18:0-2-4,0-3-4], [22:0-3-0,0-3-0], [27:0-5-0,0-6-0], [28:0-2-4,0-3-4]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.06	18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.12	18-19	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS		Attic	-0.04	18-28	6059	360	Weight: 377 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E *Except*
22-28,18-22: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
2-31,12-14: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 25-27,23-25.
JOINTS 1 Brace at Jt(s): 22, 26, 32, 33, 24, 21, 19

REACTIONS. (size) 31=0-5-8, 14=0-5-8, 25=0-3-8
Max Horz 31=-225(LC 10)
Max Uplift 31=-131(LC 12), 14=-114(LC 13)
Max Grav 31=838(LC 1), 14=1020(LC 2), 25=1559(LC 18)

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

TOP CHORD 2-3=-632/96, 3-4=-737/128, 4-5=-735/160, 5-6=-388/141, 6-7=-316/153, 7-8=-312/135, 8-9=-383/127, 9-10=-722/151, 10-11=-747/111, 11-12=-813/81, 2-31=-805/138, 12-14=-991/120
BOT CHORD 29-30=-389/645, 27-29=-399/645, 25-27=-407/264, 23-25=-1004/0, 20-23=0/1489, 17-20=0/1957, 16-17=-166/1791, 15-16=-159/1775, 26-28=-97/750, 24-26=0/1338, 19-21=-1121/0, 18-19=-1569/53
WEBS 3-30=-344/127, 5-32=-423/150, 32-33=-268/45, 9-33=-380/131, 11-18=-289/109, 2-30=-36/575, 12-15=-21/774, 27-28=-602/135, 28-30=-233/302, 15-18=-1255/140, 24-25=-866/0, 25-26=-900/101, 23-24=0/1474, 20-21=-26/250, 17-18=-32/361, 21-23=-1195/0, 19-20=-536/103

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 13-6-10, Zone2 13-6-10 to 18-4-5, Zone1 18-4-5 to 20-5-6, Zone2 20-5-6 to 25-3-1, Zone1 25-3-1 to 35-6-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-32, 32-33, 9-33; Wall dead load (5.0psf) on member(s).4-28, 10-18
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 26-28, 24-26, 22-24, 21-22, 19-21, 18-19
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 31=131, 14=114.

Continued on page 2

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

NOTES-

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Attic room checked for L/360 deflection.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838075
4717087	T03	ATTIC	1	2	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:24 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-WZUFVS?AkqTtSwP?FOwfsIeQNse6OCor_6JlQBz_Qor

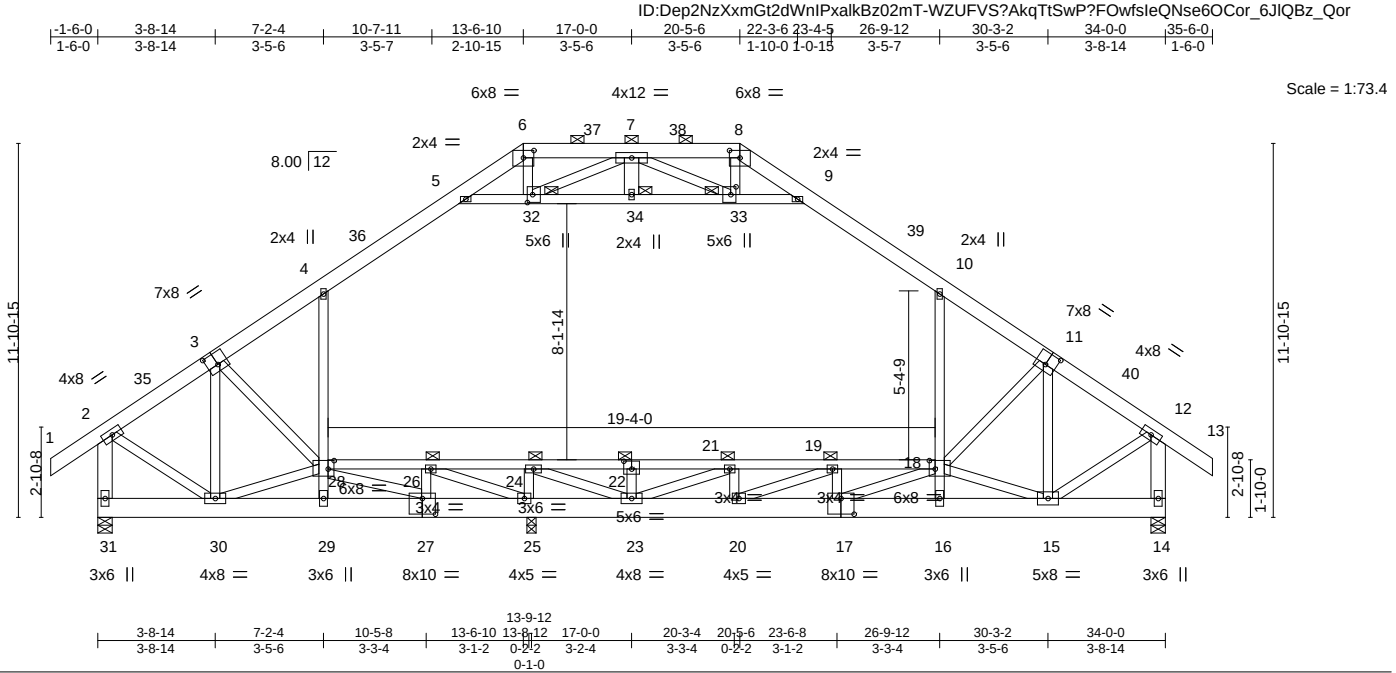


Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [6:0-4-0,0-2-13], [8:0-4-0,0-2-13], [11:0-4-0,0-4-8], [17:0-5-0,0-6-0], [18:0-2-4,0-3-4], [22:0-3-0,0-3-0], [27:0-5-0,0-6-0], [28:0-2-4,0-3-4], [32:0-3-0,0-2-0], [33:0-3-0,0-2-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.03	19-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.06	19-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.02	14	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 757 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E *Except*
22-28,18-22: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
5-9: 2x4 SP No.2, 2-31,12-14,7-34: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 22, 26, 32, 33, 24, 21, 19, 34

REACTIONS. (size) 31=0-5-8, 14=0-5-8, 25=0-3-8
Max Horz 31=338(LC 11)
Max Uplift 31=-659(LC 12), 14=-607(LC 13)
Max Grav 31=3939(LC 20), 14=4087(LC 20), 25=1637(LC 18)

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

TOP CHORD 2-3=-3316/547, 3-4=-4787/824, 4-5=-4931/895, 5-6=-4680/926, 6-7=-4092/864, 7-8=-4069/835, 8-9=-4660/904, 9-10=-4952/883, 10-11=-4906/795, 11-12=-3459/499, 2-31=-3835/659, 12-14=-3976/605
BOT CHORD 30-31=-306/356, 29-30=-781/2161, 27-29=-790/2128, 25-27=-916/2381, 23-25=-1044/2089, 20-23=-140/3996, 17-20=-157/3945, 16-17=-314/3066, 15-16=-310/3081, 26-28=-319/2131, 24-26=0/2090, 22-24=-251/788, 21-22=-251/788, 19-21=-839/394, 18-19=-1256/598
WEBS 3-30=-2272/482, 3-28=-473/2059, 28-29=-65/260, 4-28=-559/286, 5-32=-314/160, 32-34=-971/4623, 33-34=-971/4623, 9-33=-287/134, 10-18=-485/276, 11-18=-602/1794, 11-15=-2058/602, 2-30=-437/3062, 12-15=-388/3301, 22-23=-384/0, 26-27=-413/205, 27-28=-545/664, 6-32=-402/2268, 8-33=-402/2279, 7-32=-5017/947, 7-33=-5038/950, 28-30=-482/1259, 15-18=-1005/348, 24-25=-1114/0, 25-26=-660/164, 23-24=0/1794, 17-19=-472/115, 17-18=-162/1154, 21-23=-1000/0, 19-20=-441/292

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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 roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 13-6-10, Zone2 13-6-10 to 18-4-5, Zone1 18-4-5 to 20-5-6, Zone2 20-5-6 to 25-3-1, Zone1 25-3-1 to 35-6-0 zone; 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

Continued on page 2

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

NOTES-

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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-32, 32-34, 33-34, 9-33; Wall dead load (5.0psf) on member(s).4-28, 10-18
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 26-28, 24-26, 22-24, 21-22, 19-21, 18-19
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 31=659, 14=607.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4692 lb down and 757 lb up at 17-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-60, 2-4=-60, 4-5=-70, 5-6=-60, 6-8=-60, 8-9=-60, 9-10=-70, 10-12=-60, 12-13=-60, 14-31=-20, 18-28=-40, 5-9=-10
   Drag: 4-28=-10, 10-18=-10
   Concentrated Loads (lb)
   Vert: 7=-2500

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838076
4717087	T04	Attic	9	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:25 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-_l2djo0oV8bk44_Cp6RuOWASTFo77cB_Cl2Izdz_Qoq

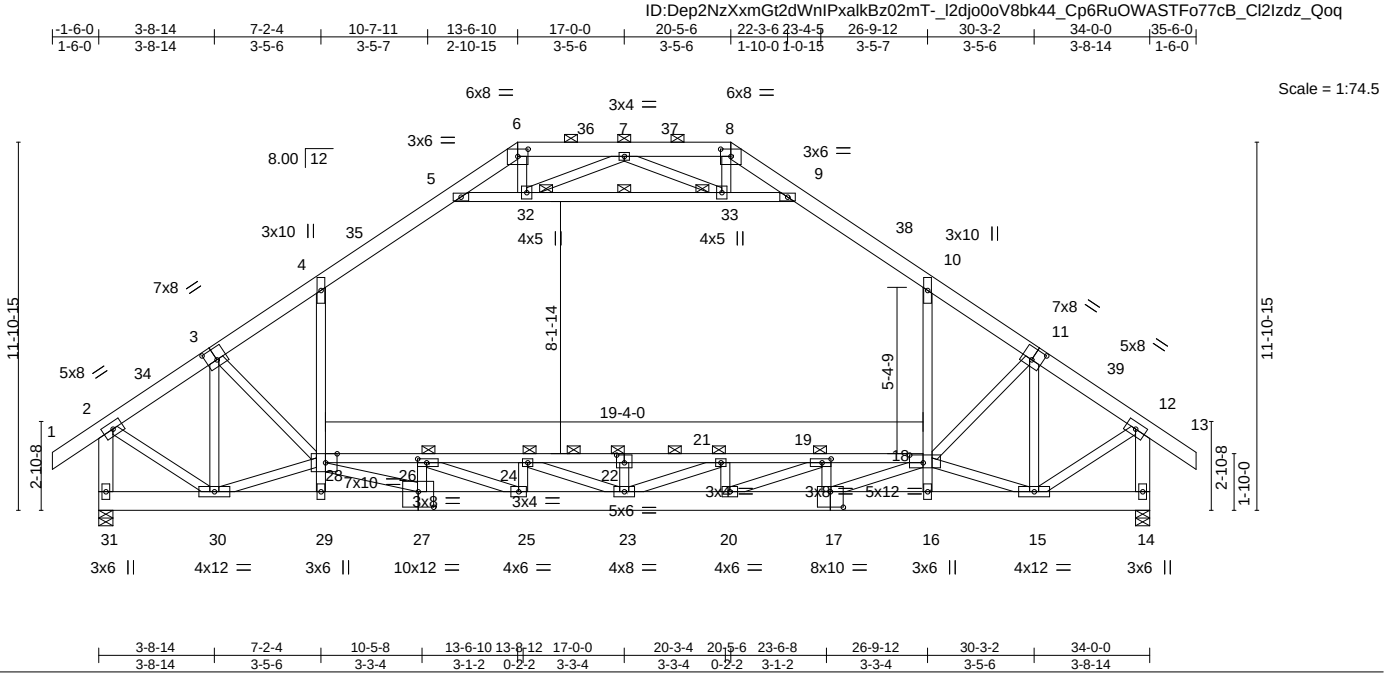


Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [6:0-4-0,0-2-13], [8:0-4-0,0-2-13], [11:0-4-0,0-4-8], [17:0-5-0,0-6-0], [18:0-5-4,0-3-0], [19:0-3-8,0-1-8], [22:0-3-0,0-3-0], [26:0-3-8,0-1-8], [27:0-6-0,0-6-0], [28:0-4-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.90	Vert(LL)	-0.55	22	>732	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.99	Vert(CT)	-0.79	22	>508	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.05	14	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS		Attic	-0.27	18-28	860	360	Weight: 377 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
3-6,8-11: 2x6 SP 2400F 2.0E or 2x6 SP M 26
BOT CHORD 2x8 SP 2400F 2.0E *Except*
22-28,18-22: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
2-31,12-14: 2x6 SP No.2
27-28,25-26,23-24,17-18,21-23,19-20: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
3-3-0 oc bracing: 22-24, 21-22
3-6-0 oc bracing: 24-26, 19-21
4-4-0 oc bracing: 26-28, 18-19
WEBS 1 Row at midpt 32-33
JOINTS 1 Brace at Jt(s): 22, 26, 32, 33, 24, 21, 19

REACTIONS. (size) 31=0-5-8, 14=0-5-8
Max Horz 31=-225(LC 10)
Max Uplift 31=-40(LC 12), 14=-40(LC 13)
Max Grav 31=1975(LC 2), 14=1975(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1641/16, 3-4=-2036/13, 4-5=-1435/95, 5-6=-162/662, 6-7=-31/878, 7-8=-31/878, 8-9=-162/662, 9-10=-1435/96, 10-11=-2036/15, 11-12=-1641/16, 2-31=-1908/50, 12-14=-1908/50
BOT CHORD 29-30=-212/2237, 27-29=-223/2222, 25-27=0/4354, 23-25=0/5943, 20-23=0/5943, 17-20=0/4354, 16-17=-173/2082, 15-16=-163/2097, 26-28=-2835/0, 24-26=-4528/0, 22-24=-4947/0, 21-22=-4947/0, 19-21=-4528/0, 18-19=-2835/1
WEBS 3-30=-844/55, 28-29=-9/263, 4-28=0/1293, 5-32=-2313/2, 32-33=-2057/0, 9-33=-2313/6, 16-18=-5/263, 10-18=0/1293, 11-15=-854/67, 2-30=0/1654, 12-15=0/1654, 22-23=-431/0, 26-27=-1152/0, 27-28=0/2576, 7-32=-354/111, 7-33=-354/112, 28-30=-795/193, 15-18=-827/204, 24-25=-603/0, 25-26=0/1726, 23-24=-86/477, 20-21=-603/0, 17-19=-1152/0, 17-18=0/2576, 21-23=-92/482, 19-20=0/1726

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 13-6-10, Zone2 13-6-10 to 18-4-5, Zone1 18-4-5 to 20-5-6, Zone2 20-5-6 to 25-3-1, Zone1 25-3-1 to 35-6-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-32, 32-33, 9-33; Wall dead load (5.0psf) on member(s).4-28, 10-18

Continued on page 2

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

NOTES-

8) Bottom chord live load (80.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 26-28, 24-26, 22-24, 21-22, 19-21, 18-19
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 31, 14.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Attic room checked for L/360 deflection.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838077
4717087	T04G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:26 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-Sxc?w81RGRjbiDZOMpy7xjjptfNFsFM8RPorV3z_Qop

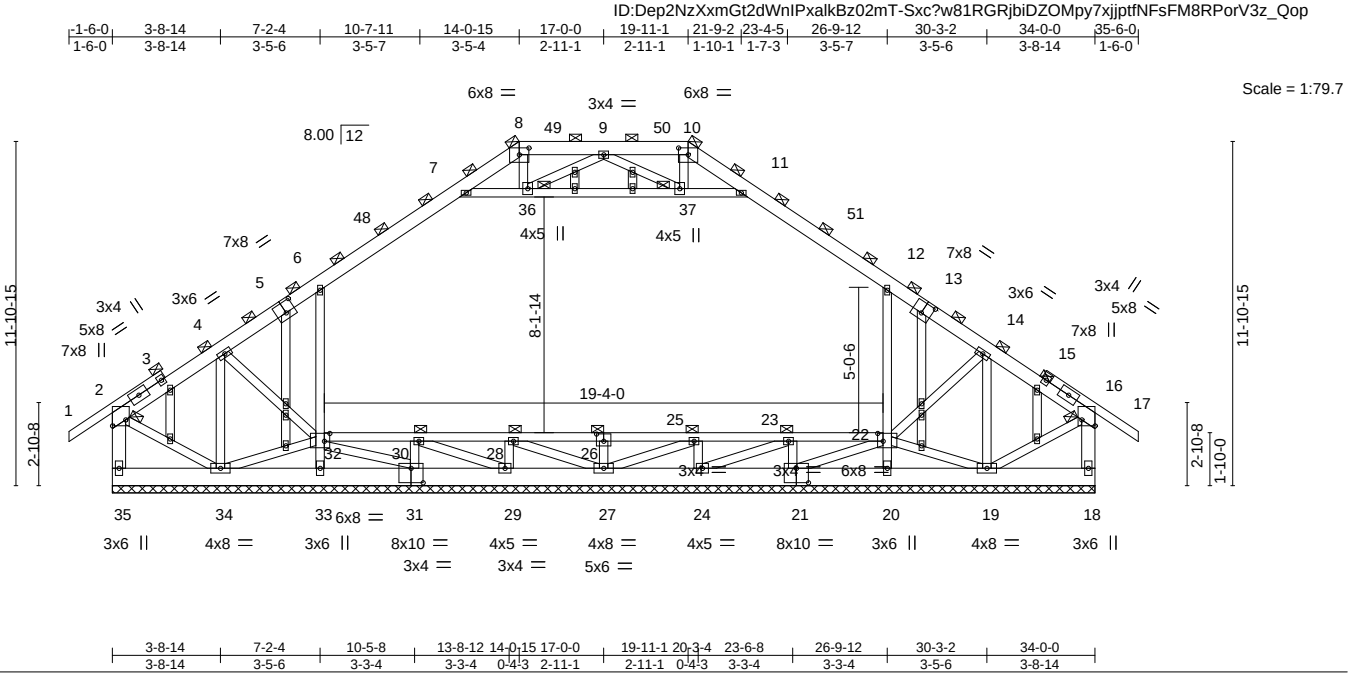


Plate Offsets (X,Y)-- [2:Edge,0-5-8], [5:0-4-0,0-4-8], [8:0-4-0,0-2-13], [10:0-4-0,0-2-13], [13:0-4-0,0-4-8], [16:Edge,0-5-8], [21:0-5-0,0-6-0], [22:0-2-4,0-3-4], [26:0-3-0,0-3-0], [31:0-5-0,0-6-0], [32:0-2-4,0-3-4]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	-0.00	17	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.01	16-17	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	18	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 394 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except* 1-3,15-17: 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E *Except* 26-32,22-26: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
WEBS 2x4 SP No.3 *Except* 2-35,16-18: 2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 8, 10, 2, 16, 26, 30, 36, 37, 28, 25, 23

REACTIONS. All bearings 34-0-0.
(lb) - Max Horz 35=221(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 35, 34, 19, 18 except 33=-121(LC 12), 20=-116(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 34, 19, 27, 31, 29, 24, 21 except 35=558(LC 1), 33=276(LC 20), 20=263(LC 21), 18=558(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-396/79, 4-6=-624/122, 6-7=-666/158, 7-8=-378/104, 8-9=-320/113, 9-10=-320/112, 10-11=-378/103, 11-12=-666/157, 12-14=-624/121, 14-16=-396/75, 2-35=-531/96, 16-18=-531/91
BOT CHORD 33-34=-87/258, 31-33=-97/281, 29-31=-75/315, 27-29=-77/350, 24-27=-74/350, 21-24=-65/315, 20-21=-33/270, 19-20=-48/257
WEBS 4-34=-410/64, 4-32=-19/256, 6-32=-310/166, 12-22=-310/165, 14-22=-33/256, 14-19=-410/68, 2-34=-87/343, 16-19=-75/343

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 14-0-15, Zone2 14-0-15 to 18-10-10, Zone1 18-10-10 to 19-11-1, Zone2 19-11-1 to 24-8-12, Zone1 24-8-12 to 35-6-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

NOTES-

10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Ceiling dead load (5.0 psf) on member(s). 6-7, 11-12, 7-36, 36-37, 11-37; Wall dead load (5.0psf) on member(s).6-32, 12-22
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 35, 34, 19, 18 except (jt=lb) 33=121, 20=116.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Attic room checked for L/360 deflection.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838078
4717087	T05	ATTIC	1	2	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:28 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-OKkmLq2ho3zJxXjnUE_b08o3lT?kKygRujHyZyz_Qon

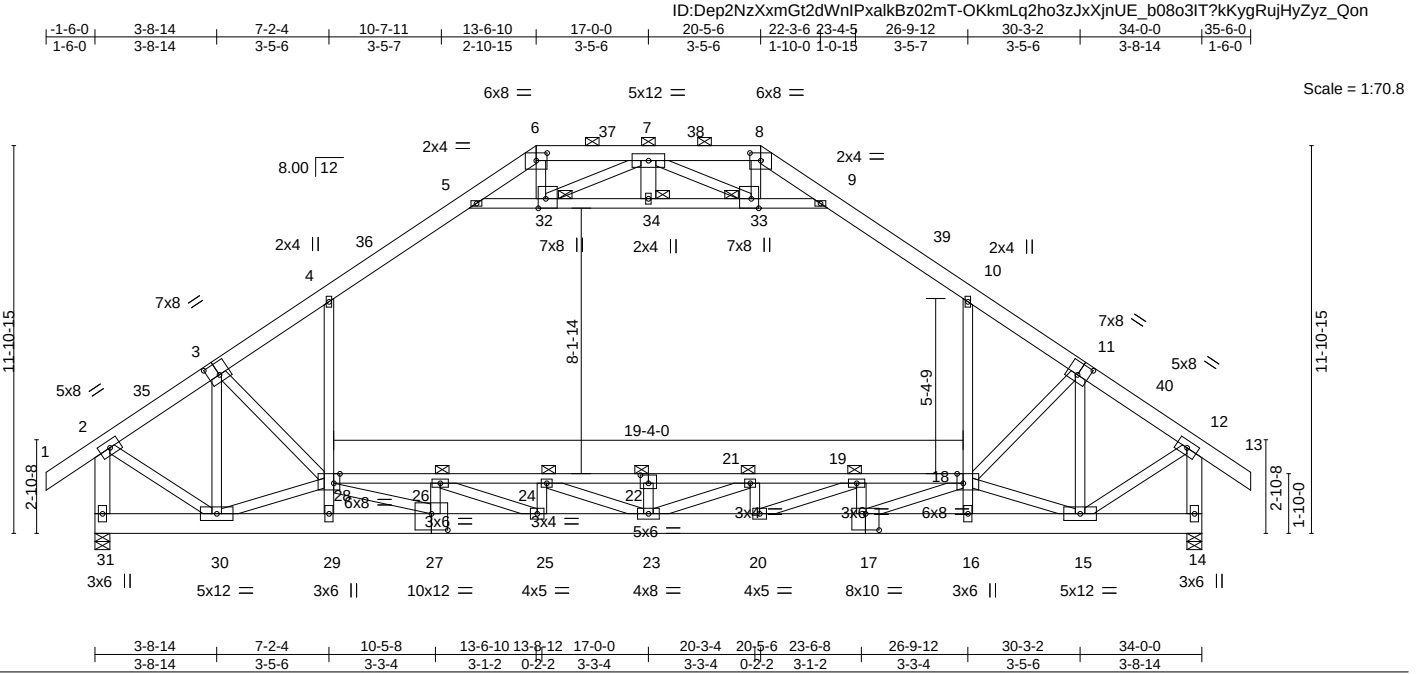


Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [6:0-4-0,0-2-13], [8:0-4-0,0-2-13], [11:0-4-0,0-4-8], [17:0-5-0,0-6-0], [18:0-2-4,Edge], [22:0-3-0,0-3-0], [27:0-6-0,0-6-0], [28:0-2-4,Edge], [32:0-3-8,0-2-12], [33:0-3-8,0-2-12]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	-0.14	22-24	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.24	22-24	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.03	14	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS		Attic	-0.08	18-28	2903	360	Weight: 757 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E *Except*
22-28,18-22: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
5-9: 2x4 SP No.1, 2-31,12-14,7-34: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 22, 26, 32, 33, 24, 21, 19, 34

REACTIONS. (size) 31=0-5-8, 14=0-5-8
Max Horz 31=225(LC 11)
Max Uplift 31=-419(LC 12), 14=-419(LC 13)
Max Grav 31=5254(LC 20), 14=5182(LC 20)

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

TOP CHORD 2-3=-4511/345, 3-4=-6559/572, 4-5=-6554/709, 5-6=-6068/965, 6-7=-5256/924, 7-8=-5255/929, 8-9=-6063/969, 9-10=-6580/711, 10-11=-6647/574, 11-12=-4453/345, 2-31=-5124/420, 12-14=-5046/419
BOT CHORD 30-31=-209/307, 29-30=-233/3162, 27-29=-238/3114, 25-27=0/5292, 23-25=0/6865, 20-23=0/6865, 17-20=0/5292, 16-17=-187/2952, 15-16=-182/2998, 26-28=-1123/1031, 24-26=-1605/63, 22-24=-2190/0, 21-22=-2190/0, 19-21=-1605/63, 18-19=-1159/978
WEBS 3-30=-2971/358, 3-28=-460/2596, 28-29=-28/333, 4-28=-246/360, 5-32=-792/0, 32-34=-1195/6125, 33-34=-1195/6125, 9-33=-792/0, 16-18=-25/333, 10-18=-246/366, 11-18=-466/2593, 11-15=-3036/370, 2-30=-254/4273, 12-15=-253/4274, 22-23=-445/0, 26-27=-1152/0, 27-28=0/2571, 6-32=-363/3119, 8-33=-364/3146, 7-32=-6906/859, 7-33=-6960/860, 28-30=-647/1088, 15-18=-684/1068, 24-25=-665/4, 25-26=0/1708, 23-24=-114/661, 20-21=-665/6, 17-19=-1152/0, 17-18=0/2571, 21-23=-120/676, 19-20=0/1708

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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 roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 13-6-10, Zone2 13-6-10 to 18-4-5, Zone1 18-4-5 to 20-5-6, Zone2 20-5-6 to 25-3-1, Zone1 25-3-1 to 35-6-0 zone; 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

Continued on page 2

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

NOTES-

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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-32, 32-34, 33-34, 9-33; Wall dead load (5.0psf) on member(s).4-28, 10-18
10) Bottom chord live load (80.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 26-28, 24-26, 22-24, 21-22, 19-21, 18-19
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 31=419, 14=419.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 6567 lb down and 757 lb up at 17-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-40, 2-4=-40, 4-5=-47, 5-6=-40, 6-8=-40, 8-9=-40, 9-10=-47, 10-12=-40, 12-13=-40, 14-31=-13, 18-28=-27, 5-9=-7
   Drag: 4-28=-7, 10-18=-7
   Concentrated Loads (lb)
   Vert: 7=-2500

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838079
4717087	T06	ATTIC	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:29 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-sWI8YA3JZM5AZhIz2xWqZMLDjtCj3TJa7N0V6Oz_Qom

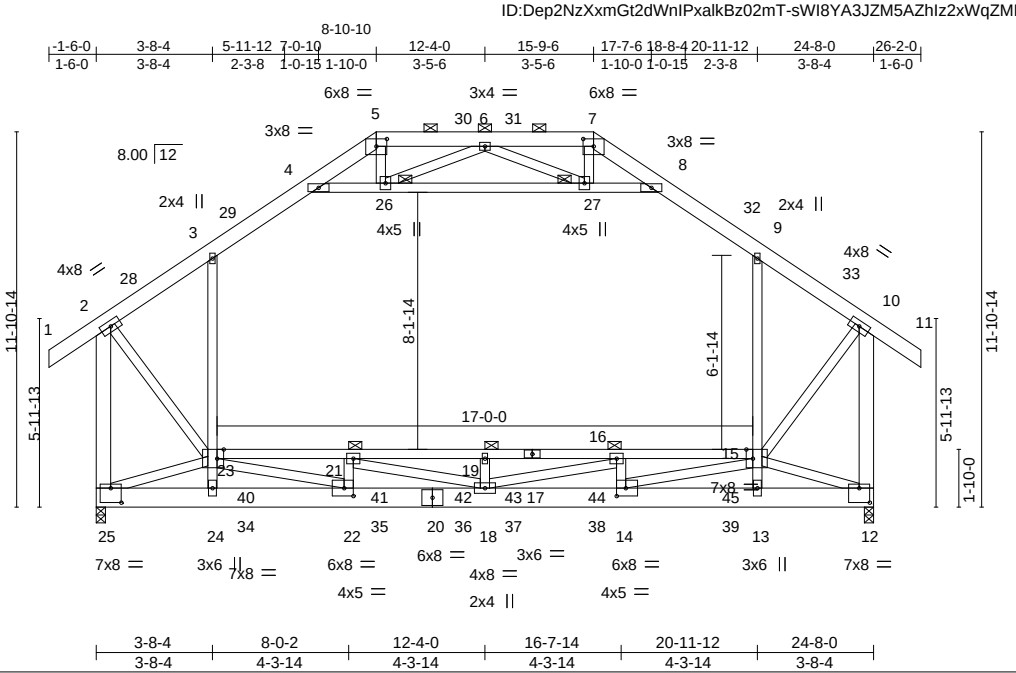


Plate Offsets (X,Y)-- [5:0-4-0,0-2-13], [7:0-4-0,0-2-13], [12:0-4-0,0-5-8], [14:0-3-8,0-3-0], [15:0-2-8,Edge], [22:0-3-8,0-3-0], [23:0-2-8,Edge], [25:0-4-0,0-5-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.19	19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.28	16-19	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS		Attic	-0.12	15-23	1641	360	Weight: 307 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E *Except*
17-23,15-17: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
2-25,10-12: 2x6 SP No.2, 22-23,18-21,16-18,14-15: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 19, 26, 27, 21, 16

REACTIONS. (size) 12=0-3-8, 25=0-3-8
Max Horz 25=373(LC 11)
Max Uplift 12=-3(LC 9), 25=-3(LC 8)
Max Grav 12=1935(LC 2), 25=1935(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1237/776, 3-4=-1070/584, 4-5=-621/221, 5-6=-499/245, 6-7=-499/243, 7-8=-621/220, 8-9=-1070/592, 9-10=-1237/784, 2-25=-1980/1242, 10-12=-1980/1260
BOT CHORD 24-25=-582/710, 22-24=-601/706, 18-22=-2104/2436, 14-18=-1866/2436, 13-14=-297/402, 12-13=-290/406, 21-23=-1603/1495, 19-21=-2440/2073, 16-19=-2440/2073, 15-16=-1603/1555
WEBS 23-24=-350/334, 3-23=-464/431, 13-15=-353/334, 9-15=-471/431, 4-26=-960/906, 26-27=-790/757, 8-27=-960/920, 2-23=-784/1409, 10-15=-796/1409, 18-19=-482/190, 6-26=-333/182, 6-27=-333/184, 21-22=-845/465, 22-23=-1994/2517, 18-21=-794/887, 14-16=-845/468, 16-18=-802/895, 14-15=-1997/2517, 12-15=-509/374, 23-25=-434/304

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-10-10, Zone2 8-10-10 to 13-1-9, Zone1 13-1-9 to 15-9-6, Zone2 15-9-6 to 20-0-5, Zone1 20-0-5 to 26-2-0 zone; 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-26, 26-27, 8-27; Wall dead load (5.0psf) on member(s).3-23, 9-15
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 21-23, 19-21, 16-19, 15-16
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 25.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Attic room checked for L/360 deflection.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838080
4717087	T06G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:30 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-KjrWmW4xJgD0Art9bf135ZtMwGYhowTjM1m3eqz_Qol

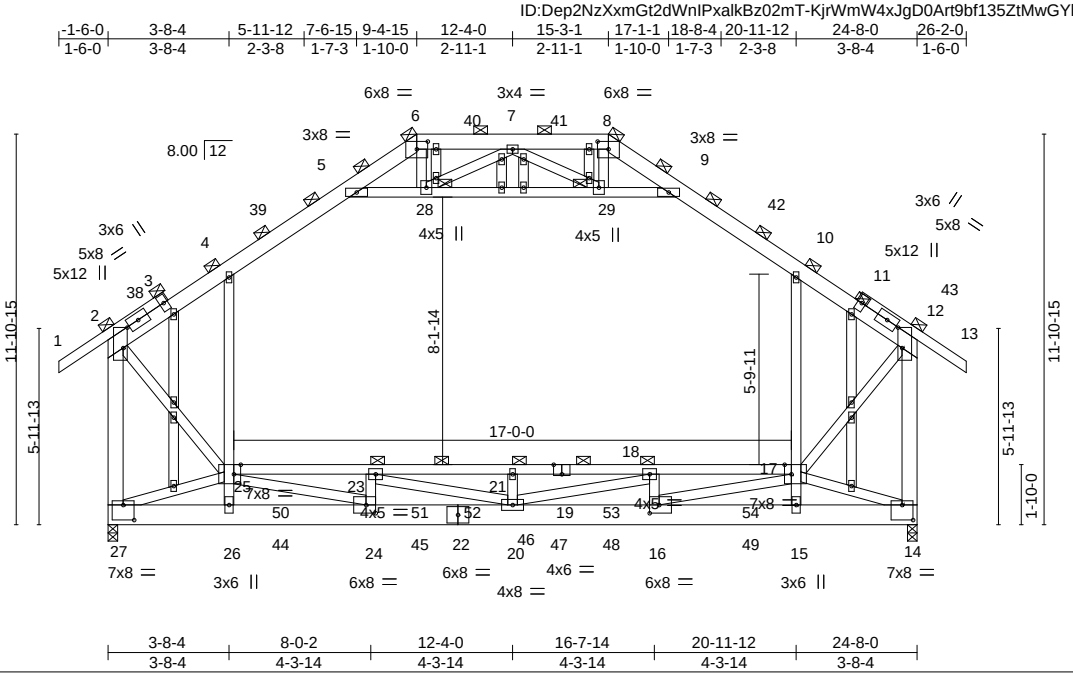


Plate Offsets (X,Y)-- [2:0-7-8,0-1-8], [6:0-4-0,0-2-13], [8:0-4-0,0-2-13], [12:0-7-8,0-1-8], [14:0-4-0,0-5-8], [16:0-3-8,0-3-0], [17:0-2-8,Edge], [19:0-3-0,Edge], [24:0-3-8,0-3-0], [25:0-2-8,Edge], [27:0-4-0,0-5-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	0.22	21-23	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.32	18-21	>919	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.02	14	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS		Attic	-0.13	17-25	1513	360	Weight: 325 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2 *Except* 1-3,11-13: 2x4 SP No.2
BOT CHORD	2x8 SP 2400F 2.0E *Except* 19-25,17-19: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
WEBS	2x4 SP No.3 *Except* 2-27,12-14: 2x6 SP No.2, 24-25,20-23,18-20,16-17: 2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	2-0-0 oc purlins (5-1-10 max.), except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 4-6-0 oc bracing: 21-23, 18-21 4-11-0 oc bracing: 23-25, 17-18
JOINTS	1 Brace at Jt(s): 2, 6, 8, 12, 21, 28, 29, 23, 18

REACTIONS. (size) 14=0-3-8, 27=0-3-8
Max Horz 27=-367(LC 10)
Max Uplift 14=-3(LC 13), 27=-3(LC 12)
Max Grav 14=1932(LC 2), 27=1932(LC 2)

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

TOP CHORD	2-4=-1167/711, 4-5=-1055/553, 5-6=-513/204, 6-7=-398/231, 7-8=-398/230, 8-9=-513/203, 9-10=-1055/559, 10-12=-1167/717, 2-27=-1870/1142, 12-14=-1870/1159
BOT CHORD	26-27=-668/796, 24-26=-633/795, 20-24=-2374/2751, 16-20=-2129/2751, 15-16=-389/490, 14-15=-424/507, 23-25=-1956/1794, 21-23=-2779/2357, 18-21=-2779/2357, 17-18=-1956/1850
WEBS	25-26=-329/310, 4-25=-427/365, 15-17=-332/310, 10-17=-429/365, 5-28=-998/912, 28-29=-842/775, 9-29=-998/926, 2-25=-735/1364, 12-17=-746/1364, 20-21=-482/192, 7-28=-281/163, 7-29=-281/165, 23-24=-839/463, 24-25=-2013/2538, 20-23=-795/875, 16-18=-839/465, 18-20=-803/883, 16-17=-2015/2538, 14-17=-598/538, 25-27=-537/484

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-4-15, Zone2 9-4-15 to 13-7-14, Zone1 13-7-14 to 15-3-1, Zone2 15-3-1 to 19-6-0, Zone1 19-6-0 to 26-2-0 zone; 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

NOTES-

9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-28, 28-29, 9-29; Wall dead load (5.0psf) on member(s).4-25, 10-17
11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 23-25, 21-23, 18-21, 17-18
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 27.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Attic room checked for L/360 deflection.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838081
4717087	T07	ATTIC	1	2	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:31 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-ovPuzr4Z4_Lto?SM9MYIenQX5gwcXLntbhVcAHz_Qok

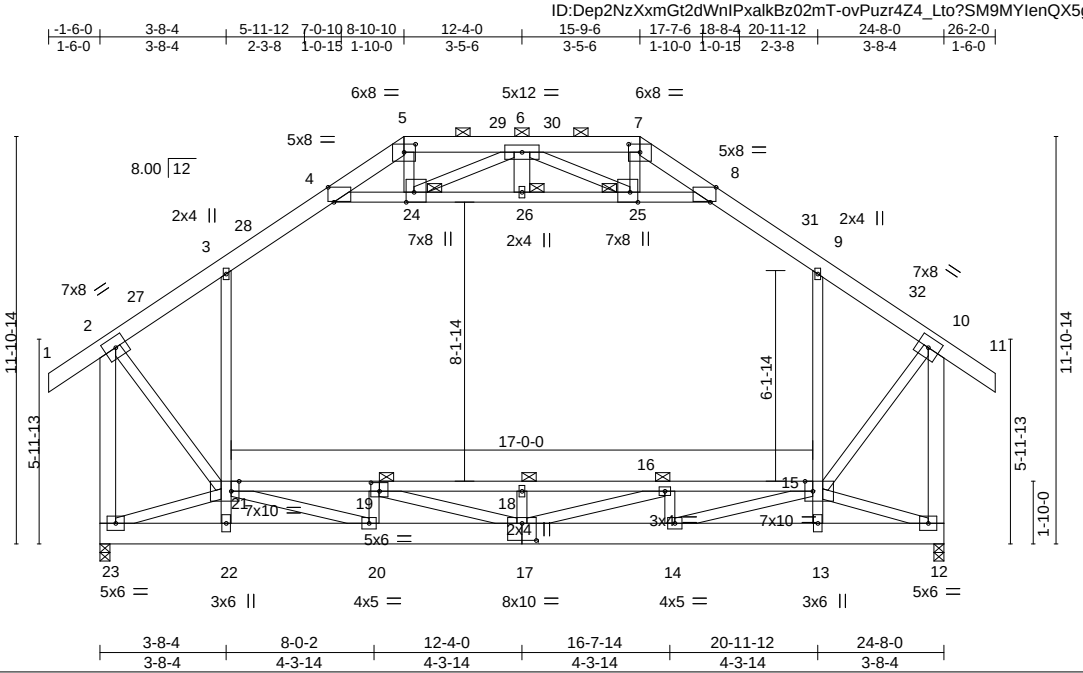


Plate Offsets (X,Y)-- [4:Edge,0-5-4], [5:0-4-0,0-2-13], [7:0-4-0,0-2-13], [8:Edge,0-5-4], [15:0-2-12,Edge], [17:0-5-0,0-6-0], [19:0-3-0,0-3-0], [21:0-2-12,Edge], [24:0-3-8,0-2-12], [25:0-3-8,0-2-12]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	0.09	17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	0.10	17	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.84	Horz(CT)	-0.00	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS		Attic	0.04	15-21	4824	360	Weight: 617 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26 *Except*
5-7: 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E *Except*
19-21,15-19: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
4-8: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
2-23,10-12,6-26: 2x6 SP No.2, 2-21,10-15: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-1 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 18, 19, 16, 24, 25, 26

REACTIONS. (size) 12=0-3-8, 23=0-3-8
Max Horz 23=-373(LC 10)
Max Uplift 12=-680(LC 13), 23=-680(LC 12)
Max Grav 12=6083(LC 20), 23=6101(LC 20)

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

TOP CHORD 2-3=-4433/532, 3-4=-5968/908, 4-5=-9506/1764, 5-6=-8848/1702, 6-7=-8762/1709, 7-8=-9454/1769, 8-9=-5990/906, 9-10=-4526/530, 2-23=-6680/705, 10-12=-6893/703
BOT CHORD 22-23=-1905/837, 20-22=-1985/840, 17-20=0/1096, 14-17=0/1028, 13-14=-1842/552, 12-13=-1760/549, 19-21=-1199/3602, 18-19=-1108/2593, 16-18=-1108/2593, 15-16=-1272/3743
WEBS 21-22=0/409, 3-21=-3098/828, 13-15=0/411, 9-15=-3024/826, 4-24=-1186/4424, 24-26=-2486/12433, 25-26=-2486/12433, 8-25=-1203/4504, 2-21=-809/6291, 10-15=-824/6516, 21-23=-548/1714, 12-15=-618/1854, 17-18=-472/0, 19-20=-902/0, 20-21=0/2504, 17-19=-166/1120, 14-16=-907/0, 16-17=-173/1208, 14-15=0/2537, 5-24=-626/3750, 7-25=-627/3789, 6-24=-8455/1482, 6-25=-8540/1483, 6-26=-291/76

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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 roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-10-10, Zone2 8-10-10 to 13-1-9, Zone1 13-1-9 to 15-9-6, Zone2 15-9-6 to 20-0-5, Zone1 20-0-5 to 26-2-0 zone; 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
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.

Continued on page 2

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

NOTES-

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-24, 24-26, 25-26, 8-25; Wall dead load (5.0psf) on member(s).3-21, 9-15
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-21, 18-19, 16-18, 15-16
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=680, 23=680.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 8446 lb down and 1362 lb up at 12-4-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-60, 2-3=-60, 3-4=-70, 4-5=-60, 5-7=-60, 7-8=-60, 8-9=-70, 9-10=-60, 10-11=-60, 12-23=-20, 15-21=-40, 4-8=-10
   Drag: 3-21=-10, 9-15=-10
   Concentrated Loads (lb)
   Vert: 6=-4500

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838082
4717087	T08	Common	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:32 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-H5zHBB5BrHTkQ81Yj43XA_zm?4F?GuO0pLFAijz_Qoj

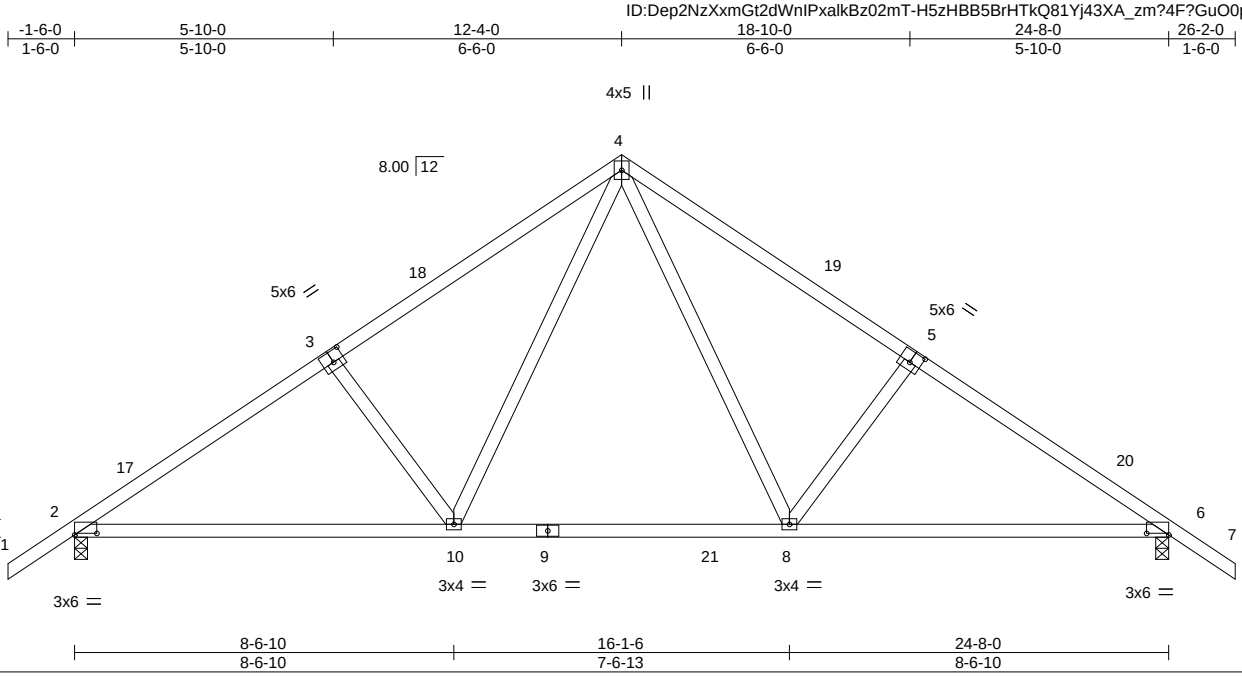


Plate Offsets (X,Y)-- [2:0-6-0,0-0-7], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-6-0,0-0-7]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	0.13	10-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.25	8-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.04	6	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.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-9-11 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-228(LC 10)
Max Uplift 2=-262(LC 12), 6=-262(LC 13)
Max Grav 2=1150(LC 2), 6=1151(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1521/595, 3-4=-1377/620, 4-5=-1378/620, 5-6=-1522/595
BOT CHORD 2-10=-404/1235, 8-10=-180/810, 6-8=-420/1236
WEBS 4-8=-309/625, 5-8=-378/267, 4-10=-309/622, 3-10=-378/266

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-4-0, Zone2 12-4-0 to 16-6-15, Zone1 16-6-15 to 26-2-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=262, 6=262.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838083
4717087	T08G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:32 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-H5zHBB5BrHTkQ81Yj43XA_zhp4F7Gtz0pLFAijz_Qoj

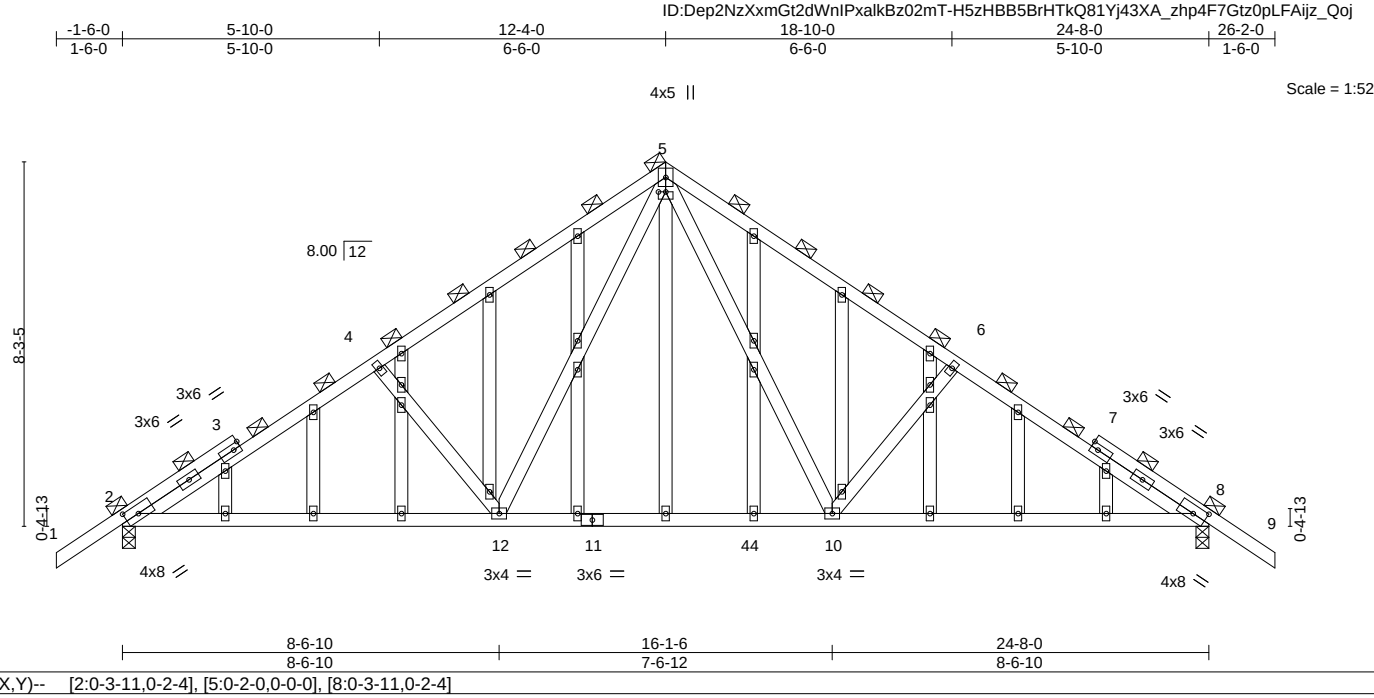


Plate Offsets (X,Y)-- [2:0-3-11,0-2-4], [5:0-2-0,0-0-0], [8:0-3-11,0-2-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	-0.13	10-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.21	10-43	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 197 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	2-0-0 oc purlins (3-1-7 max.).
BOT CHORD	Rigid ceiling directly applied or 8-0-6 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-219(LC 10)
Max Uplift 2=-264(LC 12), 8=-264(LC 13)
Max Grav 2=1145(LC 2), 8=1145(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1572/696, 4-5=-1426/707, 5-6=-1427/707, 6-8=-1573/696
BOT CHORD 2-12=-506/1319, 10-12=-209/820, 8-10=-513/1320
WEBS 5-10=-350/657, 6-10=-423/271, 5-12=-350/655, 4-12=-423/271

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=264, 8=264.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838084
4717087	T09	Scissor	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:33 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-lHXfOX6qcbbb1IbkHnamjCVr1Uem?GwA2?_jF9z_Qoi

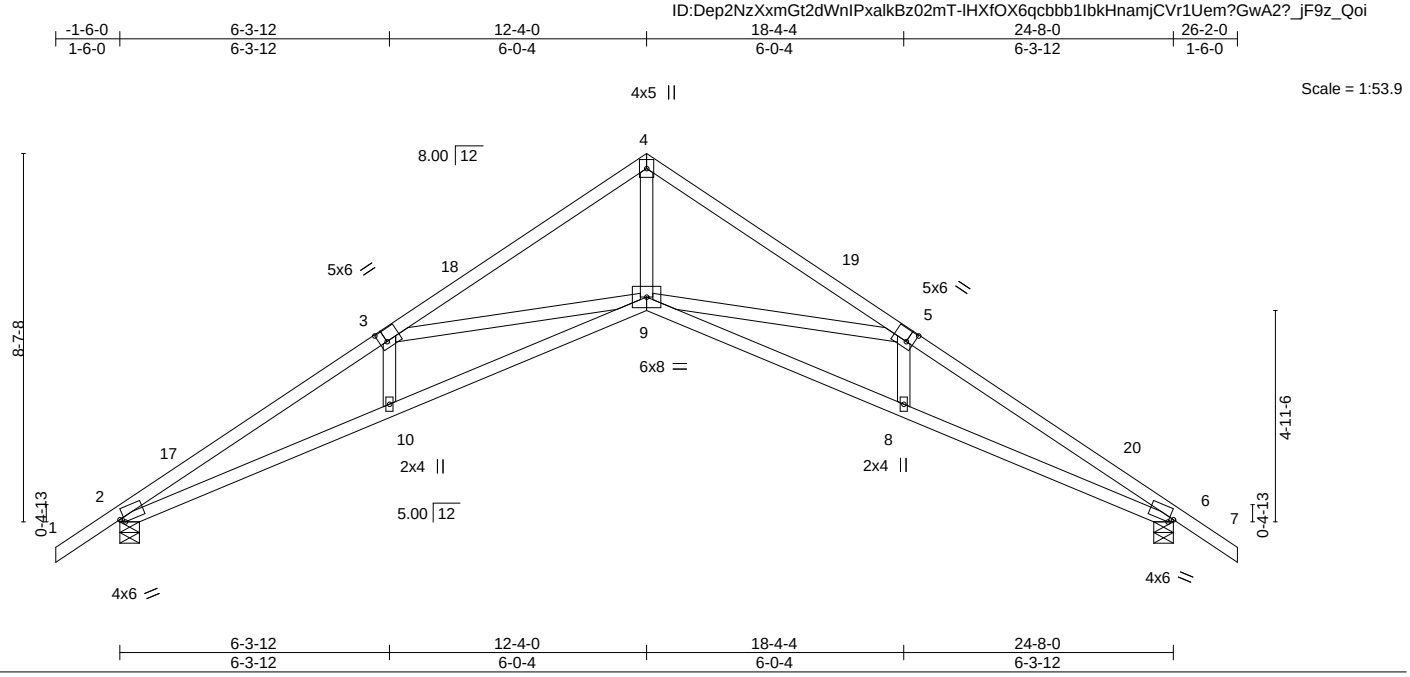


Plate Offsets (X,Y)-- [2:0-1-3,Edge], [3:0-2-0,0-3-4], [5:0-2-0,0-3-4], [6:0-1-3,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.87	Vert(LL)	-0.27	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.55	9-10	>537	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.51	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 117 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 9-2-0 oc bracing.

REACTIONS. (size) 2=0-5-8, 6=0-5-8
Max Horz 2=228(LC 11)
Max Uplift 2=-261(LC 12), 6=-261(LC 13)
Max Grav 2=1077(LC 1), 6=1077(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3127/761, 3-4=-2330/402, 4-5=-2330/435, 5-6=-3127/521
BOT CHORD 2-10=-718/2820, 9-10=-722/2855, 8-9=-392/2748, 6-8=-389/2711
WEBS 4-9=-322/2097, 5-9=-784/497, 3-9=-745/462

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-4-0, Zone2 12-4-0 to 16-6-15, Zone1 16-6-15 to 26-2-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=261, 6=261.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838085
4717087	T10	Scissor	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:34 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-DU51ct7SNvjSfSAwqV5?GP20mu_?kj9JHfkGncz_Qoh

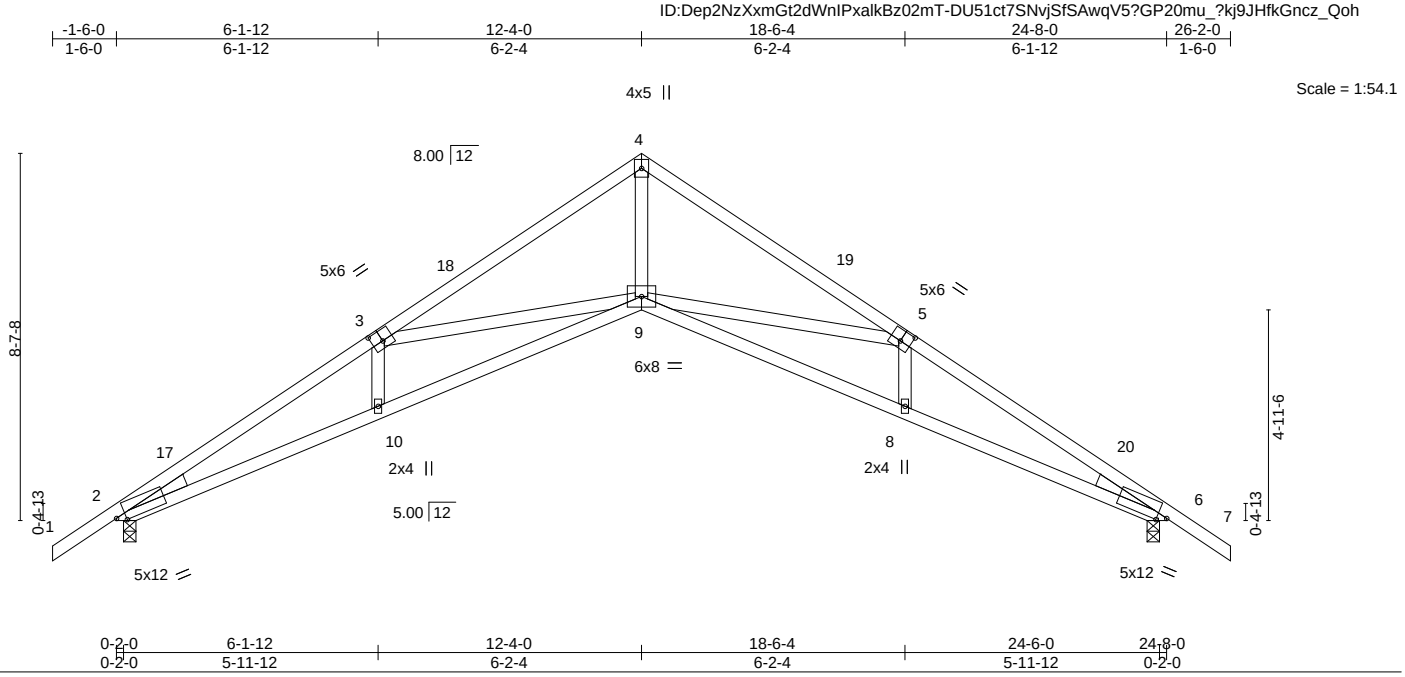


Plate Offsets (X,Y)-- [2:0-2-11,0-1-7], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-2-11,0-1-7]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.87	Vert(LL)	-0.27	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.56	9-10	>533	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.51	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 122 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 9-1-12 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=228(LC 11)
Max Uplift 2=-261(LC 12), 6=-261(LC 13)
Max Grav 2=1077(LC 1), 6=1077(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3127/759, 3-4=-2331/401, 4-5=-2331/434, 5-6=-3127/518
BOT CHORD 2-10=-716/2818, 9-10=-725/2852, 8-9=-395/2745, 6-8=-386/2709
WEBS 4-9=-322/2098, 5-9=-779/500, 3-9=-741/466

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-4-0, Zone2 12-4-0 to 16-6-15, Zone1 16-6-15 to 26-2-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=261, 6=261.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

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

Job	Truss	Truss Type	Qty	Ply	CANTER RES. T37838086
4717087	T11	Scissor	5	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 7 14:32:34 2025 Page 1
ID:Dep2NzXxmGt2dWnIPxalkBz02mT-DU51ct7SNvjSfSAwqV5?GP21kuzUkjMJHfkGncz_Qoh

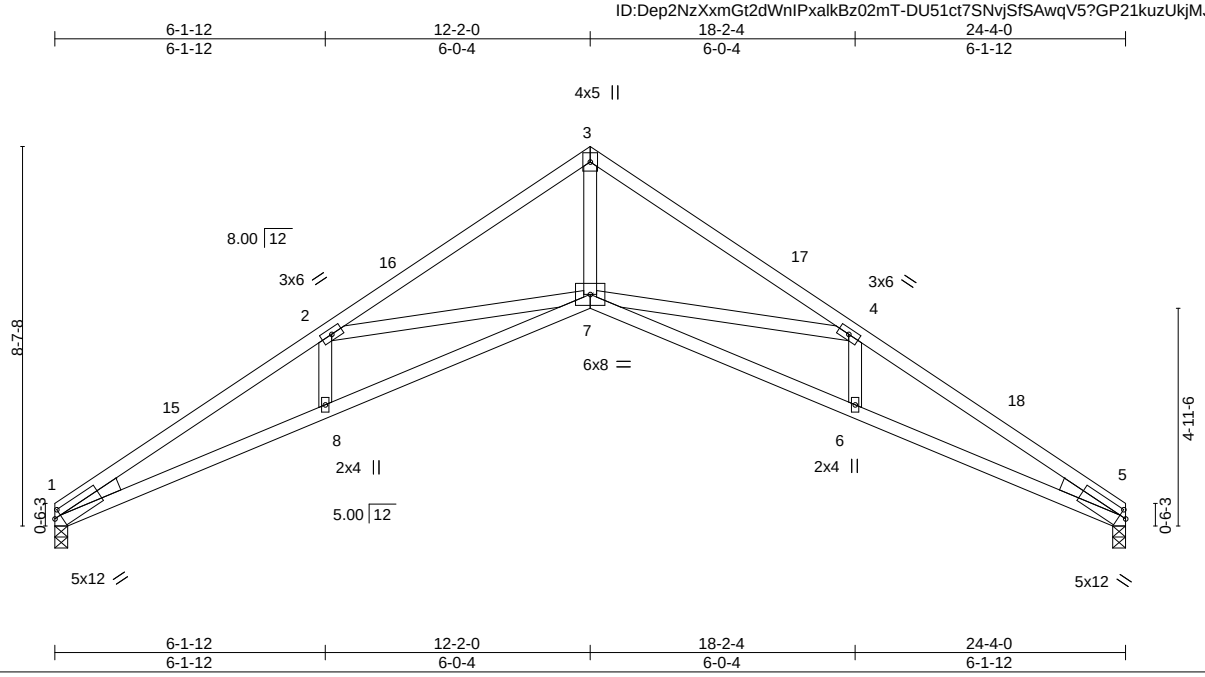


Plate Offsets (X,Y)-- [1:0-1-13,0-1-13], [5:0-1-13,0-1-13]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.81	Vert(LL)	-0.27	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.55	7-8	>527	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.51	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 115 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-11-11 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=200(LC 9)
Max Uplift 1=-220(LC 12), 5=-220(LC 13)
Max Grav 1=973(LC 1), 5=973(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3045/774, 2-3=-2292/432, 3-4=-2293/464, 4-5=-3045/562
BOT CHORD 1-8=-746/2702, 7-8=-754/2738, 6-7=-429/2667, 5-6=-421/2628
WEBS 3-7=-360/2065, 4-7=-735/483, 2-7=-698/449

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 12-2-0, Zone2 12-2-0 to 16-4-15, Zone1 16-4-15 to 24-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=220, 5=220.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

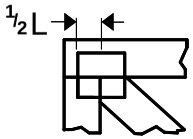
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

July 8,2025

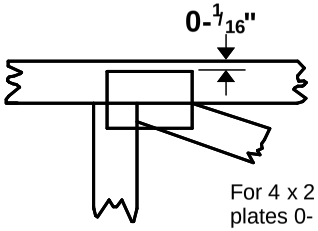
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

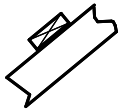
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

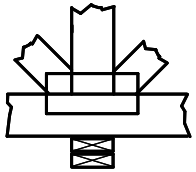
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

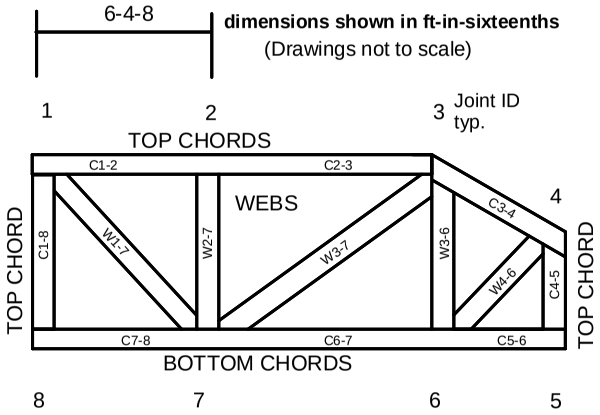


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: 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



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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek®

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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.