



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

RE: 5331783 -

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: Forrest Rossborough Project Name: Rossborough Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 369 SW Black Pine Terrace, N/A
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 Specific Loading Conditions):

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 25.4
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 16 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.

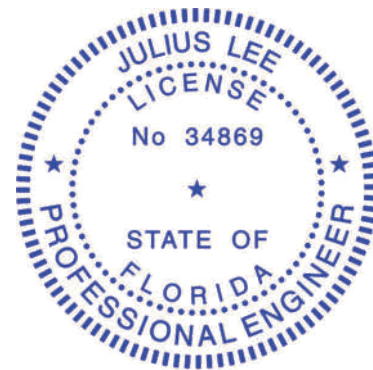
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T41459682	CJ01	6/7/26	15	T41459696	T09	6/7/26
2	T41459683	CJ02	6/7/26	16	T41459697	T09G	6/7/26
3	T41459684	CJ03	6/7/26				
4	T41459685	EJ01	6/7/26				
5	T41459686	HJ01	6/7/26				
6	T41459687	T01	6/7/26				
7	T41459688	T02	6/7/26				
8	T41459689	T03	6/7/26				
9	T41459690	T04	6/7/26				
10	T41459691	T05	6/7/26				
11	T41459692	T06	6/7/26				
12	T41459693	T07	6/7/26				
13	T41459694	T08	6/7/26				
14	T41459695	T08G	6/7/26				

This item has been digitally signed and sealed by Lee, Julius, PE on the date adjacent to the seal.

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



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

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.

June 8, 2026

Lee, Julius

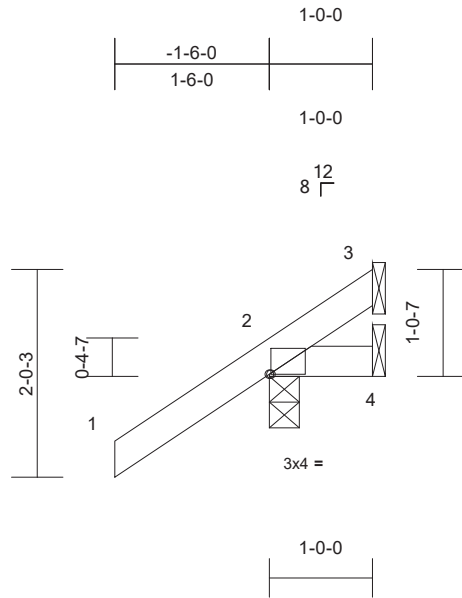
1 of 1

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5331783	CJ01	Jack-Open	8	1	T41459682

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Fri Jun 05 09:50:54
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Page: 1



Scale = 1:22.4

Plate Offsets (X, Y): [2:0-0-3,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 6 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=58 (LC 12)
Max Uplift 2=-82 (LC 12), 3=-6 (LC 1), 4=-23 (LC 1)
Max Grav 2=198 (LC 1), 3=8 (LC 8), 4=21 (LC 16)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/50, 2-3=-106/53
BOT CHORD 2-4=-63/114

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 2, 23 lb uplift at joint 4 and 6 lb uplift at joint 3.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Lee, Julius, 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.

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

June 8,2026

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

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

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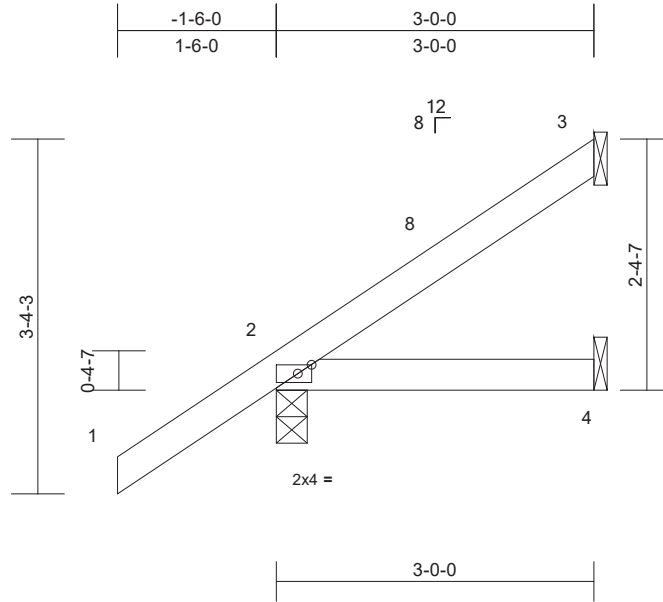
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5331783	CJ02	Jack-Open	8	1	T41459683

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Fri Jun 05 09:50:55
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Page: 1



Scale = 1:21.8

Plate Offsets (X, Y): [2:0-1-9,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	0.00	4-7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	4-7	>999	180	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							
Weight: 13 lb FT = 20%											

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=109 (LC 12)
Max Uplift 2=-61 (LC 12), 3=-49 (LC 12)
Max Grav 2=230 (LC 1), 3=72 (LC 19), 4=51 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-3=-157/54
BOT CHORD 2-4=-49/102

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 2-11-4 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'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 3 and 61 lb uplift at joint 2.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Lee, Julius, 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.

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

June 8,2026

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

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

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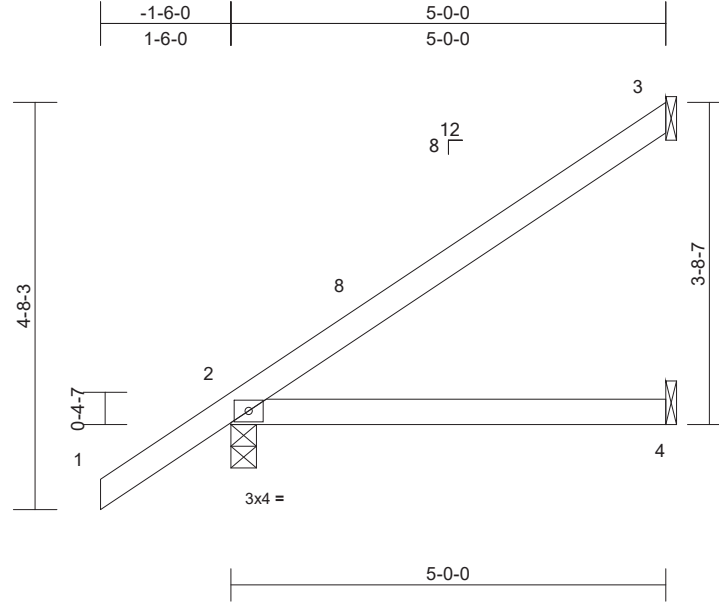
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5331783	CJ03	Jack-Open	8	1	T41459684

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Fri Jun 05 09:50:55
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Scale = 1:26.5									
Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	0.03	4-7	>999
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.06	4-7	>999
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP					
					Weight: 19 lb		FT = 20%		

LUMBER

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 3, 62 lb uplift at joint 2 and 3 lb uplift at joint 4.

BRACING

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

LOAD CASE(S) Standard

REACTIONS

(size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=160 (LC 12)
Max Uplift 2=-62 (LC 12), 3=-92 (LC 12), 4=-3 (LC 12)
Max Grav 2=301 (LC 1), 3=135 (LC 19), 4=91 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-3=-204/62
BOT CHORD 2-4=-27/72

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-11-4 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.

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

June 8,2026

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

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

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5331783	EJ01	Jack-Partial	12	1	

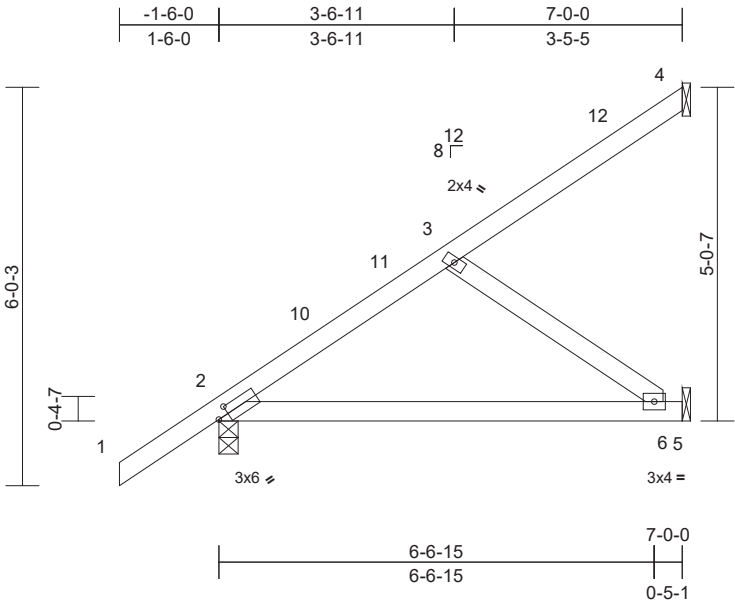
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Scale = 1:34.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.08	6-9	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.16	6-9	>529	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	2	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							
Weight: 32 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 4= Mechanical, 5= Mechanical
Max Horiz 2=204 (LC 12)
Max Uplift 2=-70 (LC 12), 4=-55 (LC 12), 5=-69 (LC 12)
Max Grav 2=377 (LC 1), 4=87 (LC 19), 5=199 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-3=-248/8, 3-4=-79/38
BOT CHORD 2-6=-165/211, 5-6=0/0
WEBS 3-6=-259/202

- NOTES**
- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 4, 70 lb uplift at joint 2 and 69 lb uplift at joint 5.

LOAD CASE(S) Standard

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

June 8,2026

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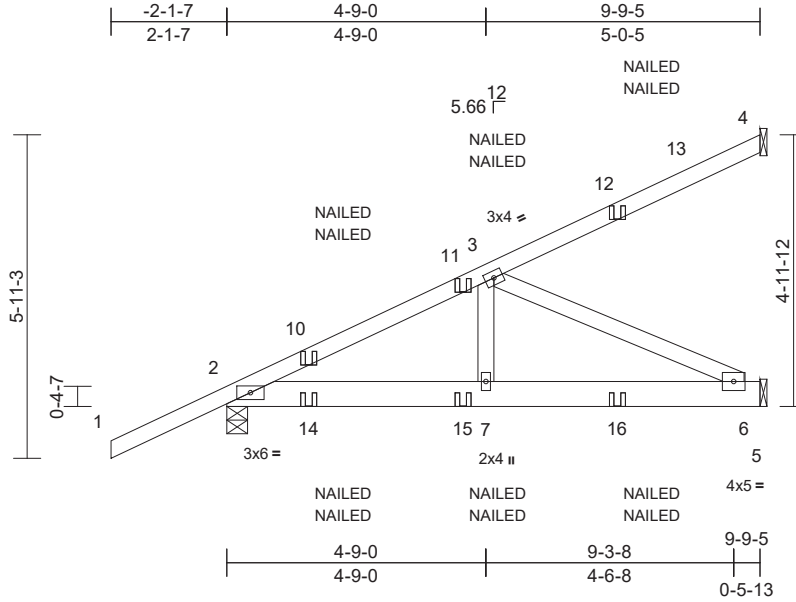
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5331783	HJ01	Diagonal Hip Girder	4	1	Job Reference (optional)
T41459686					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 E Jan 8 2026 Print: 25.4.0 E Jan 8 2026 MiTek Industries, Inc. Mon Jun 08 09:23:50
ID:obV672UIiRQx7I?zIdK9CGzZ2m_-WPa76b2I8tvuy8bQGvTS_QqXZdrbjX7MNX8EMTz8Yh7

Page: 1



Scale = 1:42.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	0.02	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.03	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.36	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 53 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	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	(lb/size)	2=469/0-4-9, 4=152/ Mechanical, 5=310/ Mechanical
	Max Horiz	2=203 (LC 8)
	Max Uplift	2=-222 (LC 8), 4=-100 (LC 8), 5=-139 (LC 8)
	Max Grav	2=480 (LC 18), 4=152 (LC 1), 5=346 (LC 15)

FORCES

	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-10=-768/238, 10-11=-677/236, 3-11=-635/207
BOT CHORD	2-14=-315/604, 14-15=-315/604, 7-15=-315/604, 7-16=-315/604, 6-16=-315/604
WEBS	3-6=-667/348

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 4, 222 lb uplift at joint 2 and 139 lb uplift at joint 5.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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 + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 10=57 (F=29, B=29), 12=-79 (F=-39, B=-39), 14=62 (F=31, B=31), 15=-5 (F=-3, B=-3), 16=-63 (F=-31, B=-31)

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

June 8,2026

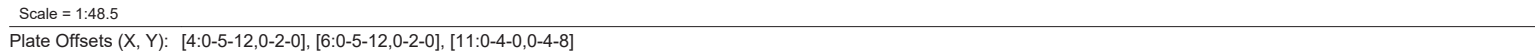
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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MiTek®

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

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Fri Jun 05 09:50:55 Page: 1
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LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 7-0-13 oc bracing.

REACTIONS (size) 2=0-3-8, 8=0-3-8
Max Horiz 2=141 (LC 7)
Max Uplift 2=-800 (LC 8), 8=-800 (LC 9)
Max Grav 2=2008 (LC 15), 8=2008 (LC 16)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/50, 2-3=-3210/1320, 3-4=-3056/1289,
4-5=-3016/1315, 5-6=-3016/1315,
6-7=-3055/1288, 7-8=-3210/1320, 8-9=0/50

BOT CHORD 2-12=-1096/2722, 10-12=-1024/2588,
8-10=-1001/2616

WEBS 4-12=-318/893, 4-11=-371/743,
5-11=-400/250, 6-11=-372/743,
6-10=-318/893, 3-12=-200/162,
7-10=-200/162

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 800 lb uplift at joint 8 and 800 lb uplift at joint 2.
- 9) Use Simpson Strong-Tie SUL26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 7-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
- 10) Use Simpson Strong-Tie SUR26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 17-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

1) Dead + Roof Live (balanced): Lumber Increase=1.25,
Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-6=-60, 6-9=-60, 2-8=-20
Concentrated Loads (lb)
Vert: 4=-68 (F), 6=-68 (F), 12=-283 (F), 10=-283 (F),
17=-20 (F), 18=-20 (F), 19=-20 (F), 20=-20 (F),
21=-20 (F), 22=-20 (F), 23=-168 (F), 24=-168 (F),
25=-168 (F), 26=-168 (F), 27=-168 (F), 28=-168 (F)

This item has been digitally signed and sealed by Lee, Julius, 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.

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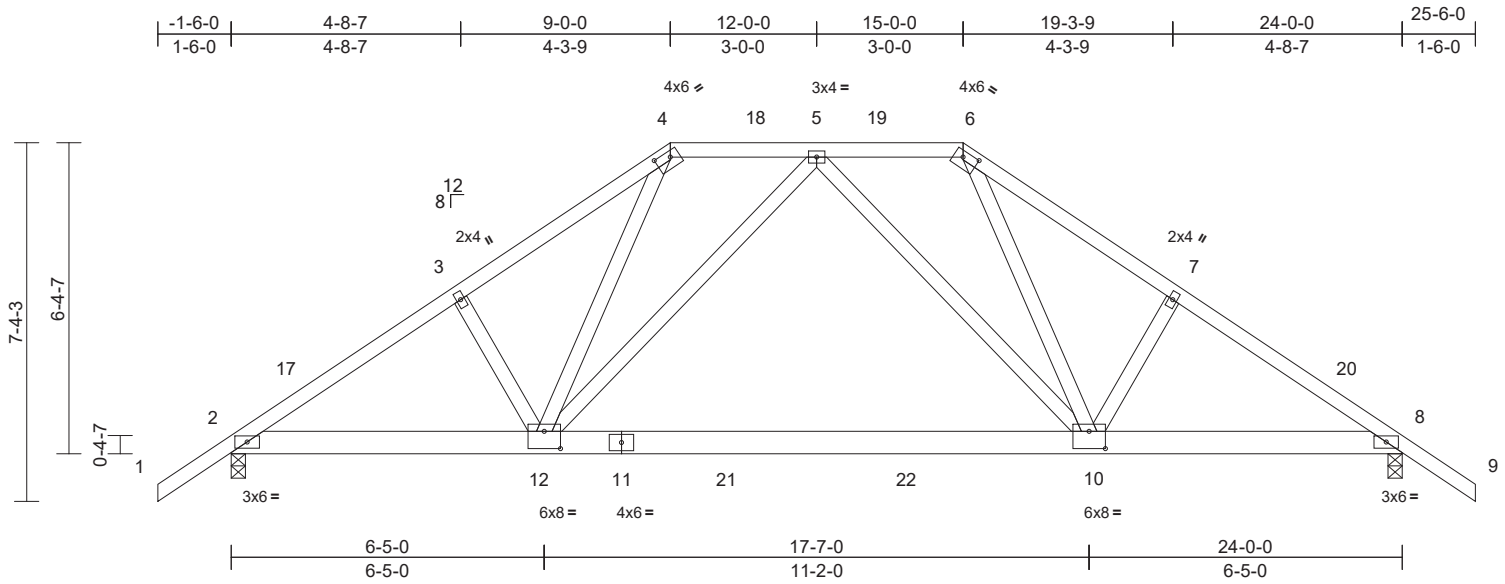
Job	Truss	Truss Type	Qty	Ply	T41459688
5331783	T02	Hip	2	1	
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Scale = 1:47.2									
Plate Offsets (X, Y): [4:0-3-12,0-1-7], [6:0-3-12,0-1-7], [10:0-4-0,0-4-4], [12:0-4-0,0-4-4]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.22 10-12	>999	240
TCDL	10.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.46 10-12	>630	180
BCLL	0.0*	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.03 8	n/a	n/a
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS					
Weight: 154 lb FT = 20%									
PLATES MT20 GRIP 244/190									

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS	2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	
(size)	2=0-3-8, 8=0-3-8
Max Horiz	2=-174 (LC 10)
Max Uplift	2=-369 (LC 12), 8=-369 (LC 13)
Max Grav	2=1463 (LC 19), 8=1463 (LC 20)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/50, 2-3=-2338/556, 3-4=-2248/592, 4-5=-1368/441, 5-6=-1368/440, 6-7=-2247/591, 7-8=-2337/555, 8-9=0/50
BOT CHORD	2-12=-474/2001, 10-12=-271/1408, 8-10=-356/1870
WEBS	3-12=-234/181, 4-12=-248/1123, 6-10=-248/1123, 7-10=-234/181, 5-12=-210/157, 5-10=-210/156

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 15-0-0, Zone2 15-0-0 to 19-4-7, Zone1 19-4-7 to 25-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 369 lb uplift at joint 2 and 369 lb uplift at joint 8.
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-6=-60, 6-9=-60, 2-12=-20, 10-12=-80, 8-10=-20

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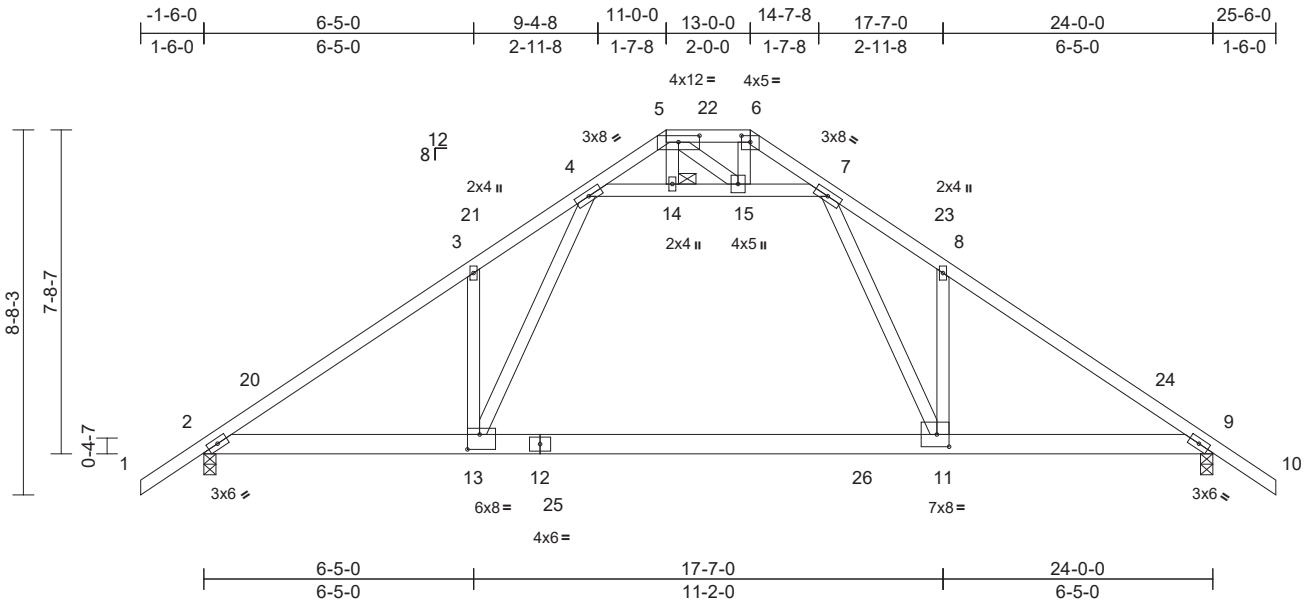
Job	Truss	Truss Type	Qty	Ply	
5331783	T03	Hip	2	1	T41459689
Job Reference (optional)					

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Scale = 1:54.8

Plate Offsets (X, Y): [5:0-6-0,0-1-13], [6:0-2-8,0-1-13], [11:0-3-8,0-3-8], [13:0-3-8,0-4-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.23	11-13	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.45	11-13	>643	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.03	9	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 149 lb FT = 20%											

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3

BRACING

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

JOINTS 1 Brace at Jt(s): 14

REACTIONS (size) 2=0-3-8, 9=0-3-8
Max Horiz 2=-207 (LC 10)
Max Uplift 2=-361 (LC 12), 9=-361 (LC 13)
Max Grav 2=1524 (LC 19), 9=1524 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-3=-2398/510, 3-4=-2401/653, 4-5=-255/101, 5-6=-203/121, 6-7=-240/96, 7-8=-2398/651, 8-9=-2398/511, 9-10=0/50
BOT CHORD 2-13=-409/2025, 11-13=-261/1496, 9-11=-341/1950
WEBS 3-13=-352/280, 4-13=-363/1298, 7-11=-362/1295, 8-11=-352/280, 4-14=-1343/395, 14-15=-1340/394, 7-15=-1359/401, 5-14=-9/22, 6-15=-93/100, 5-15=-172/145

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, Zone3 11-0-0 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 25-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 361 lb uplift at joint 2 and 361 lb uplift at joint 9.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-5=-60, 5-6=-60, 6-10=-60, 2-13=-20, 11-13=-80, 9-11=-20

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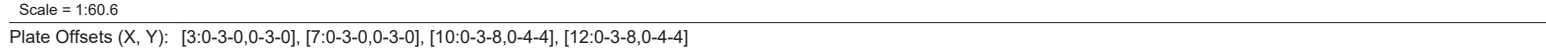
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LUMBER		5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x6 SP 2400F 2.0E or 2x6 SP M 26	6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
WEBS	2x4 SP No.3	
BRACING		7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 358 lb uplift at joint 8 and 358 lb uplift at joint 2.
TOP CHORD	Structural wood sheathing directly applied.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
JOINTS	1 Brace at Jt(s): 13	
REACTIONS		LOAD CASE(S) Standard
(size)	2=0-3-8, 8=0-3-8	1) Dead + Roof Live (balanced): Lumber Increase=1.25,
Max Horiz	2=-222 (LC 10)	Plate Increase=1.25
Max Uplift	2=-358 (LC 12), 8=-358 (LC 13)	Uniform Loads (lb/ft)
Max Grav	2=1539 (LC 19), 8=1539 (LC 20)	Vert: 1-5=-60, 5-9=-60, 2-12=-20, 10-12=-80, 8-10=-20
FORCES		
(lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=0/50, 2-4=-2438/632, 4-5=-175/79, 5-6=-175/79, 6-8=-2439/631, 8-9=0/50	
BOT CHORD	2-12=-418/2063, 10-12=-252/1469, 8-10=-348/1985	
WEBS	4-12=-350/1298, 3-12=-332/264, 6-10=-349/1297, 7-10=-332/264, 4-13=-1302/382, 6-13=-1302/382, 5-13=-4/13	

- ## NOTES
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
 - 3) Wind: ASCE 7-22; Vult=130mph (3-second gust)
 Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1.6-0 to 1-6-0, Zone1 1-6-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 25-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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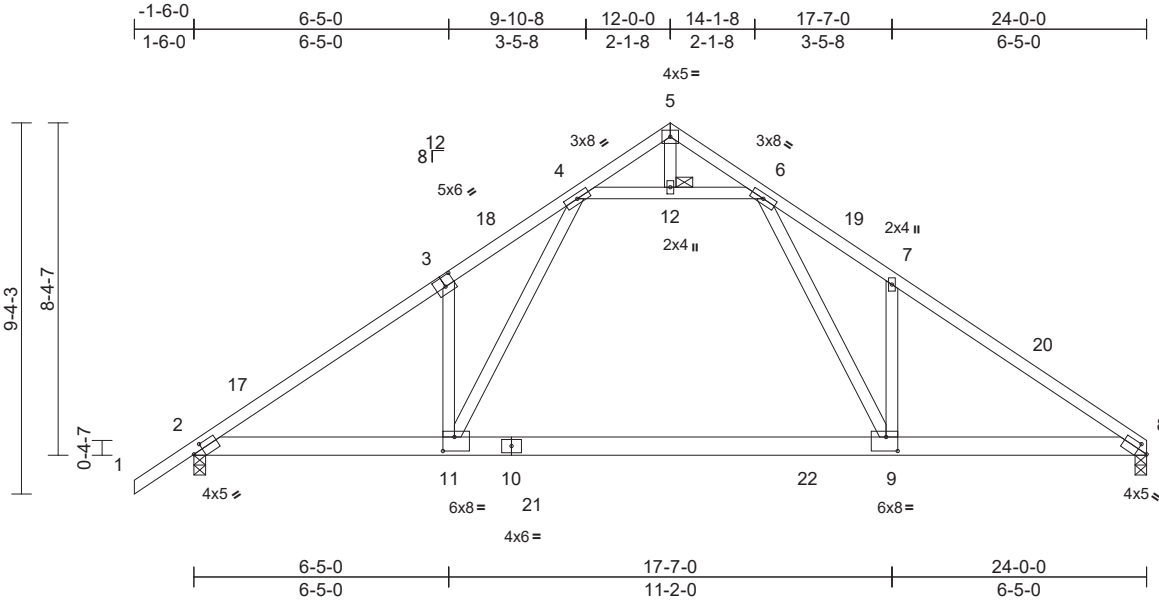
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5331783	T05	Common	3	1	T41459691

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Scale = 1:58

Plate Offsets (X, Y): [2:0-3-0,0-1-11], [3:0-3-0,0-3-0], [8:0-3-0,0-1-11], [9:0-3-8,0-4-4], [11:0-3-8,0-4-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.23	9-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.45	9-11	>640	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 143 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3

BRACING

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

JOINTS 1 Brace at Jt(s): 12

REACTIONS

(size) 2=0-3-8, 8=0-3-8
Max Horiz 2=214 (LC 11)
Max Uplift 2=-358 (LC 12), 8=-319 (LC 13)
Max Grav 2=1541 (LC 19), 8=1452 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-4=-2443/633, 4-5=-179/82, 5-6=-174/78, 6-7=-2442/656, 7-8=-2446/522
BOT CHORD 2-11=-436/2053, 9-11=-269/1459, 8-9=-367/1977
WEBS 3-11=-331/263, 4-11=-349/1297, 6-9=-376/1333, 7-9=-352/279, 4-12=-1305/384, 6-12=-1305/384, 5-12=-4/13

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 24-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 319 lb uplift at joint 8 and 358 lb uplift at joint 2.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-5=-60, 5-8=-60, 2-11=-20, 9-11=-80, 8-9=-20

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June 8,2026

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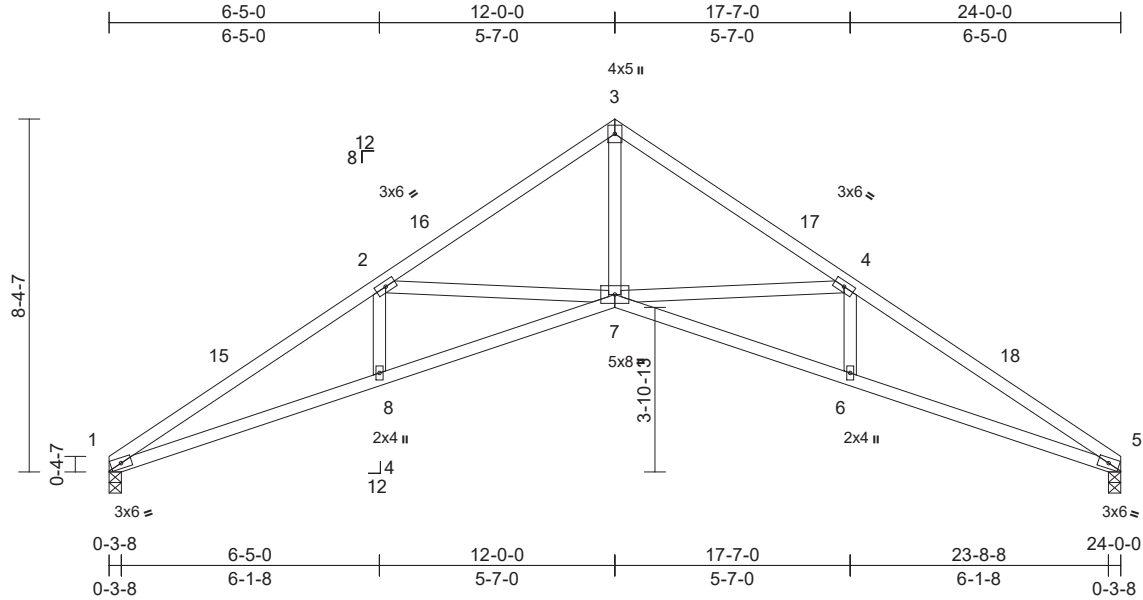
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5331783	T06	Scissor	1	1	T41459692

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Fri Jun 05 09:50:56
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Page: 1



Scale = 1:54.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.15	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.32	7-8	>887	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.29	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 109 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.
BOT CHORD Rigid ceiling directly applied or 7-5-10 oc bracing.

REACTIONS

(size) 1=0-3-8, 5=0-3-8
Max Horiz 1=-198 (LC 8)
Max Uplift 1=-217 (LC 12), 5=-217 (LC 13)
Max Grav 1=960 (LC 1), 5=960 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2575/628, 2-3=-1805/367,
3-4=-1805/395, 4-5=-2576/483
BOT CHORD 1-8=-601/2240, 7-8=-597/2236,
6-7=-348/2194, 5-6=-348/2195
WEBS 3-7=-303/1582, 4-7=-719/390, 2-7=-708/381,
2-8=0/240, 4-6=0/240

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 24-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint 1 and 217 lb uplift at joint 5.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Lee, Julius, 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.

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

June 8,2026

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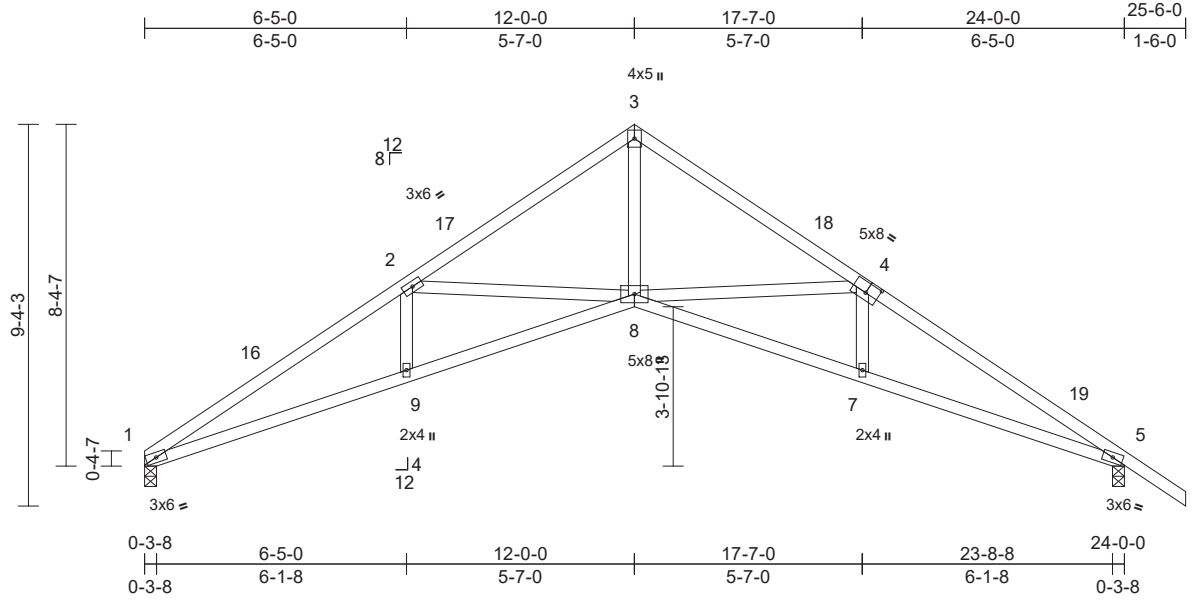
Job	Truss	Truss Type	Qty	Ply	
5331783	T07	Scissor	7	1	T41459693
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Fri Jun 05 09:50:56

Page: 1

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Scale = 1:56.4

Plate Offsets (X, Y): [4:0-3-12,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	-0.16	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.33	7-8	>871	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.29	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 112 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.
BOT CHORD Rigid ceiling directly applied or 7-8-4 oc bracing.

REACTIONS

(size) 1=0-3-8, 5=0-3-8
Max Horiz 1=-214 (LC 10)
Max Uplift 1=-217 (LC 12), 5=-256 (LC 13)
Max Grav 1=957 (LC 1), 5=1053 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2565/608, 2-3=-1797/346,
3-5=-2553/442, 5-6=0/50
BOT CHORD 1-9=-566/2259, 8-9=-563/2256,
7-8=-310/2182, 5-7=-313/2173
WEBS 3-8=-277/1565, 4-8=-715/385, 2-8=-706/381,
2-9=0/240, 4-7=0/231

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 25-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint 1 and 256 lb uplift at joint 5.

LOAD CASE(S) Standard

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

June 8,2026

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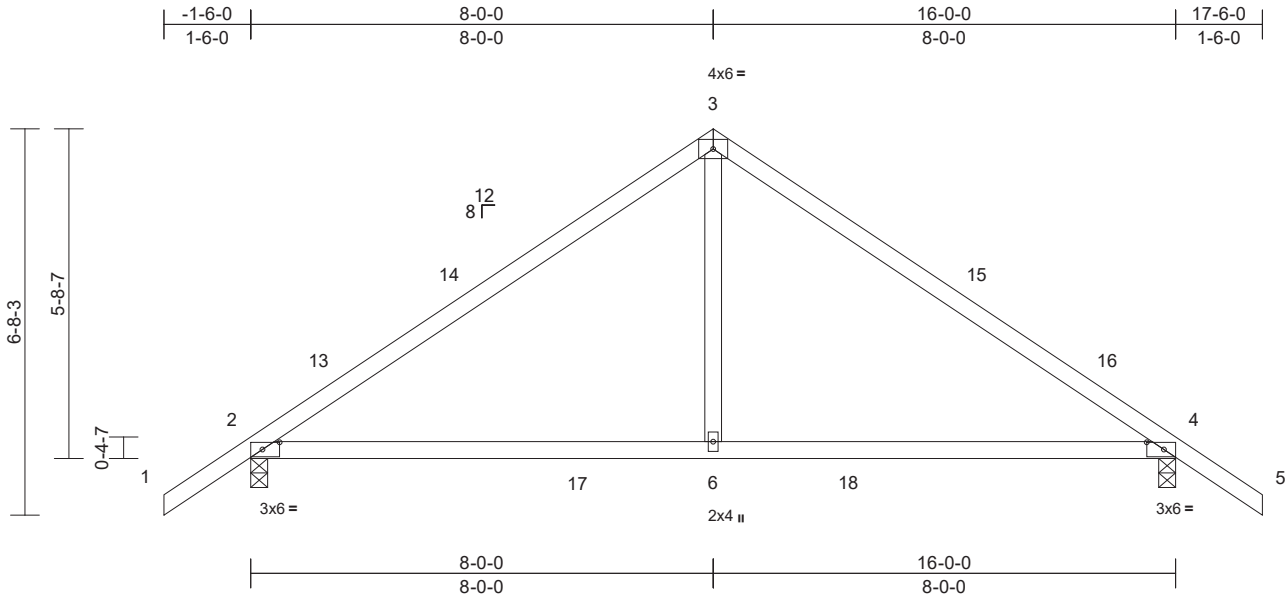
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)	T41459694
5331783	T08	Common Supported Gable	5	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,
Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Fri Jun 05 09:50:56
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Page: 1



Scale = 1:39.9

Plate Offsets (X, Y): [2:0-3-9,0-1-8], [4:0-3-9,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	0.18	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.27	6-9	>704	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 66 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.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	
(size)	2=0-3-8, 4=0-3-8
Max Horiz	2=-157 (LC 10)
Max Uplift	2=-184 (LC 12), 4=-184 (LC 13)
Max Grav	2=790 (LC 2), 4=790 (LC 2)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/50, 2-3=-864/375, 3-4=-864/375, 4-5=0/50
BOT CHORD	2-6=-169/637, 4-6=-169/637
WEBS	3-6=-192/470

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-0-0, Zone2 8-0-0 to 12-2-15, Zone1 12-2-15 to 17-6-0 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 2 and 184 lb uplift at joint 4.

LOAD CASE(S) Standard

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

June 8,2026

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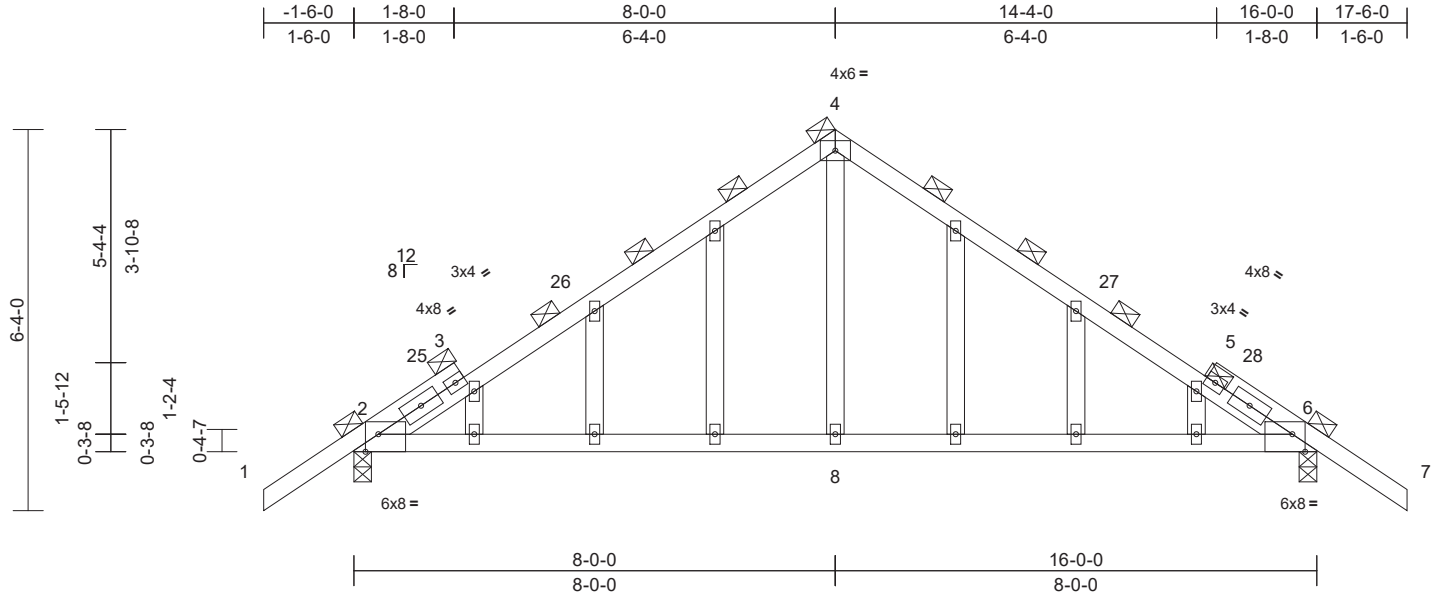
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5331783	T08G	Common	1	1	T41459695

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Fri Jun 05 09:50:56

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Scale = 1:38.3

Plate Offsets (X, Y): [2:0-2-9,Edge], [6:0-2-9,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.88	Vert(LL)	0.18	8-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.27	8-21	>690	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 89 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.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(size)	2=0-3-8, 6=0-3-8
	Max Horiz	2=-148 (LC 10)
	Max Uplift	2=-186 (LC 12), 6=-186 (LC 13)
	Max Grav	2=727 (LC 1), 6=727 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/55, 2-4=-756/380, 4-6=-756/380, 6-7=0/55
BOT CHORD	2-8=-183/566, 6-8=-183/566
WEBS	4-8=-199/383

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-0-0, Zone2 8-0-0 to 12-2-15, Zone1 12-2-15 to 17-6-0 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint 2 and 186 lb uplift at joint 6.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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

June 8,2026

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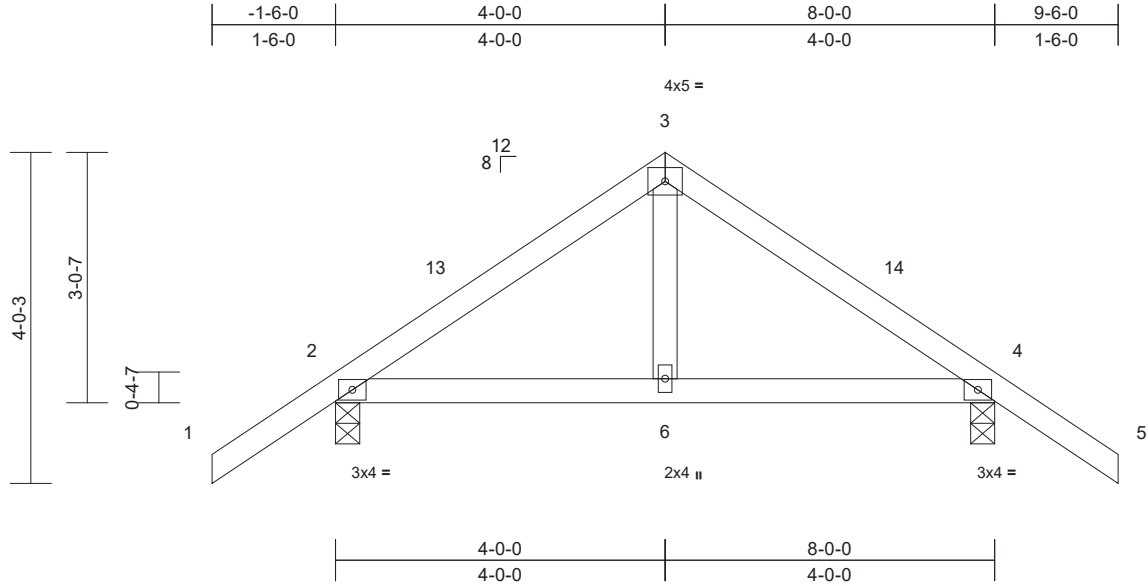
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5331783	T09	Common	3	1	T41459696

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Page: 1



Scale = 1:28

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	0.01	6-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.01	6-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 36 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 4=0-3-8
Max Horiz 2=-91 (LC 10)
Max Uplift 2=-113 (LC 12), 4=-113 (LC 13)
Max Grav 2=410 (LC 1), 4=410 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-3=-344/227, 3-4=-344/227, 4-5=0/50
BOT CHORD 2-6=-53/229, 4-6=-53/229
WEBS 3-6=-118/185

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-0-0, Zone2 4-0-0 to 8-0-0, Zone1 8-0-0 to 9-6-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 2 and 113 lb uplift at joint 4.

LOAD CASE(S) Standard

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 8,2026

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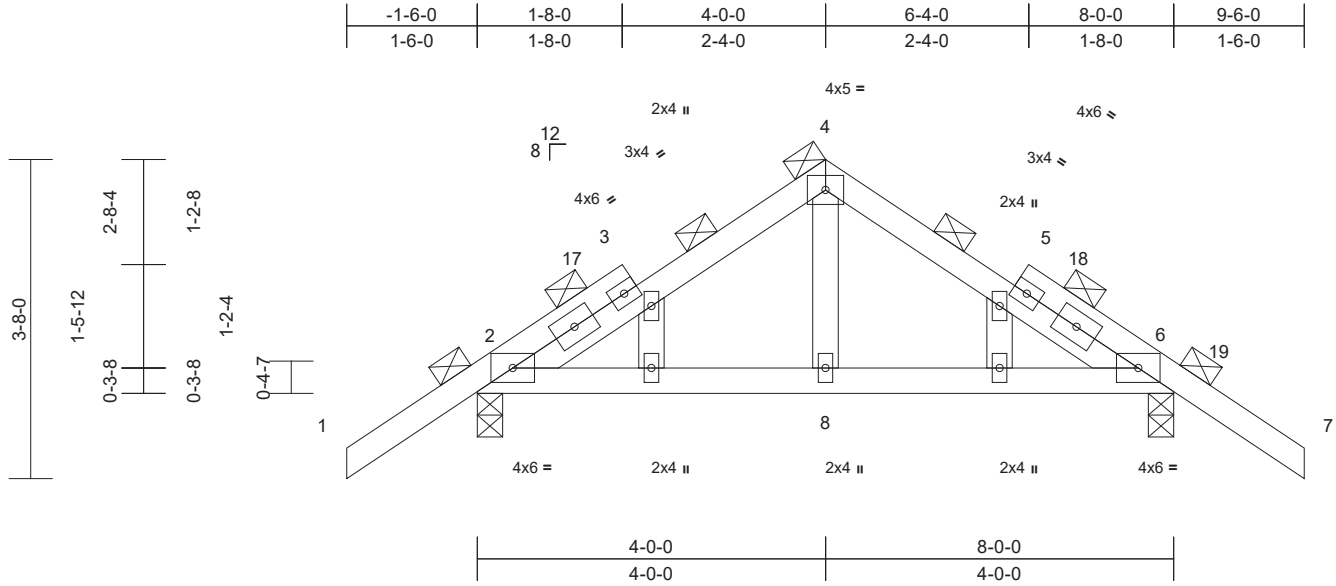
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5331783	T09G	Common	1	1	T41459697
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Fri Jun 05 09:50:56
ID:p5Rgb6h1JlwIYz8Nk8WEyEzZ2e_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:26.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.25	0.01	8-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	-0.02	8-16	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	2	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP						Weight: 42 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.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	2=0-3-8, 6=0-3-8
Max Horiz	2=-82 (LC 10)
Max Uplift	2=-116 (LC 12), 6=-116 (LC 13)
Max Grav	2=407 (LC 1), 6=407 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/55, 2-4=-320/220, 4-6=-320/220, 6-7=0/55
BOT CHORD	2-8=-62/237, 6-8=-62/237
WEBS	4-8=-113/176

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-0-0, Zone2 4-0-0 to 8-2-15, Zone1 8-2-15 to 9-6-0 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 2 and 116 lb uplift at joint 6.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Lee, Julius, 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.

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

June 8,2026

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

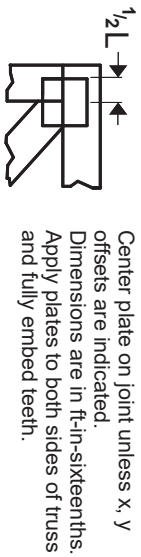
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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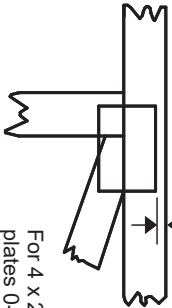
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Symbols

PLATE LOCATION AND ORIENTATION



0-¹/₁₆"



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.

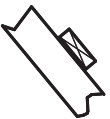
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

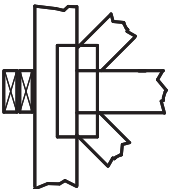
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

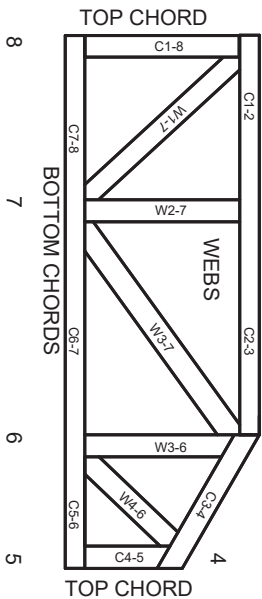
Industry Standards:

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

Numbering System

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

1 2 3 Joint ID typ.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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