



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

RE: 5371017 -

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

Site Information:

Customer Info: JOHN NORRIS CONST. Project Name: Spec Hse Model: Custom
Lot/Block: N/A Subdivision: STONEHENGE
Address: 139 SW Guinevere Way, 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: State:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

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

This package includes 13 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

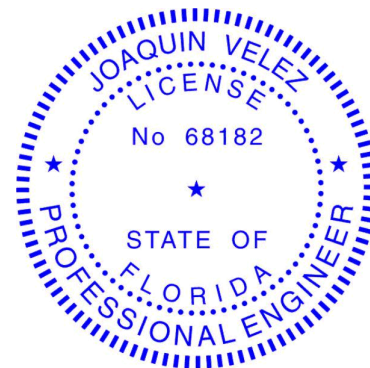
No.	Seal#	Truss Name	Date
1	T40782481	T01	4/13/26
2	T40782482	T01G	4/13/26
3	T40782483	T02	4/13/26
4	T40782484	T03	4/13/26
5	T40782485	T03G	4/13/26
6	T40782486	T04	4/13/26
7	T40782487	T05	4/13/26
8	T40782488	T05G	4/13/26
9	T40782489	T06	4/13/26
10	T40782490	T07	4/13/26
11	T40782491	T08	4/13/26
12	T40782492	T08G	4/13/26
13	T40782493	T09	4/13/26



This item has been digitally signed and sealed by Velez, Joaquin, 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: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2027.



Joaquin Velez PE No.68182
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.

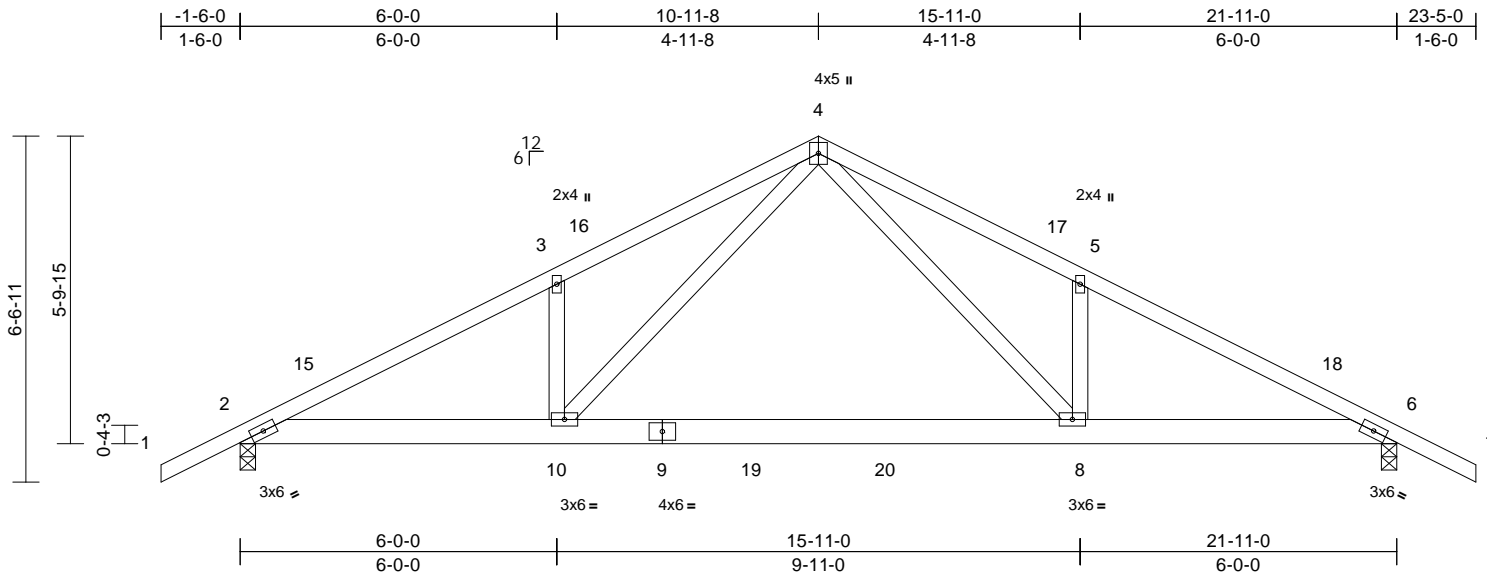
April 13,2026

Job 5371017	Truss T01	Truss Type Common	Qty 4	Ply 1	Job Reference (optional) T40782481
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Apr 2 2026 Print: 25.4.0 S Apr 2 2026 MiTek Industries, Inc. Fri Apr 10 08:19:19
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Page: 1



Scale = 1:43.7

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	0.41	Vert(LL)	0.24	8-10	>999	240	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.46	8-10	>576	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.04	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 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-10-14 oc bracing.

REACTIONS

(size) 2=0-3-8, 6=0-3-8
Max Horiz 2=-131 (LC 17)
Max Uplift 2=-483 (LC 12), 6=-483 (LC 13)
Max Grav 2=1286 (LC 2), 6=1286 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/40, 2-3=-2450/1027, 3-4=-2448/1161, 4-5=-2448/1161, 5-6=-2450/1027, 6-7=0/40
BOT CHORD 2-10=-792/2184, 8-10=-416/1296, 6-8=-819/2139
WEBS 4-10=-597/1318, 4-8=-597/1317, 5-8=-316/287, 3-10=-316/287

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-11-8, Zone2 10-11-8 to 15-2-7, Zone1 15-2-7 to 23-5-0 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 483 lb uplift at joint 2 and 483 lb uplift at joint 6.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-7=-60, 2-10=-20, 8-10=-80, 6-8=-20

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:

April 13,2026

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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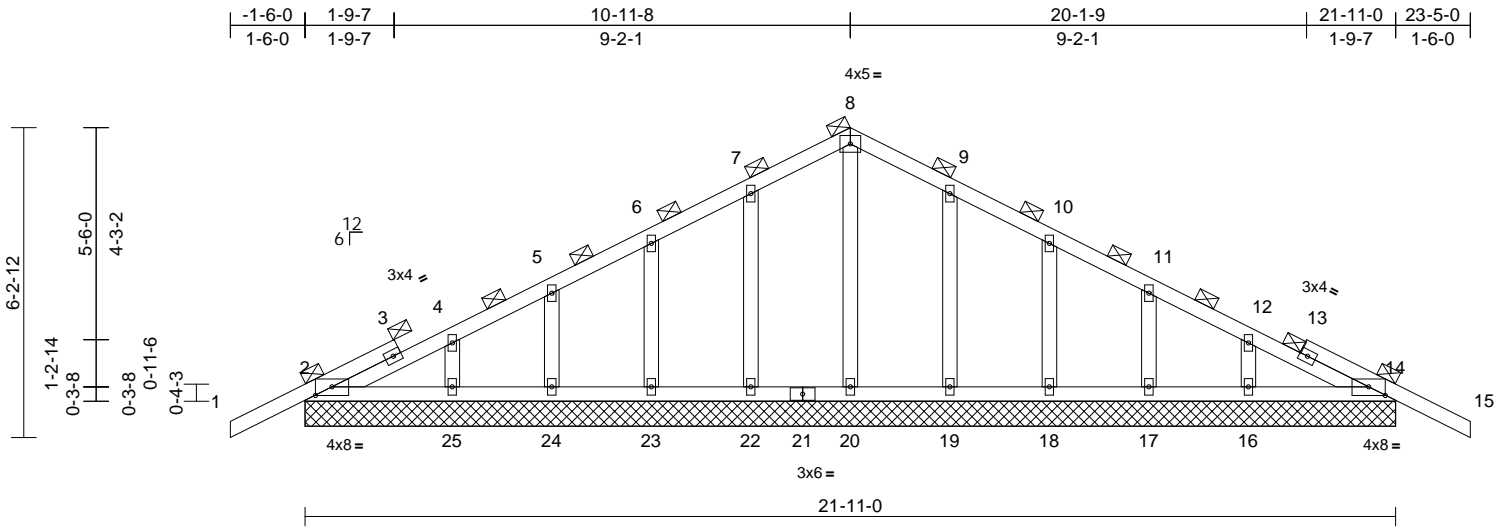
Job 5371017	Truss T01G	Truss Type Common Supported Gable	Qty 1	Ply 1	Job Reference (optional) T40782482
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Apr 2 2026 Print: 25.4.0 S Apr 2 2026 MiTek Industries, Inc. Fri Apr 10 08:19:20

Page: 1

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Scale = 1:46.3

Plate Offsets (X, Y): [2:0-4-0,0-2-1], [14:0-4-0,0-2-1]

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	29	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 No.2
OTHERS 2x4 SP No.3

WEBS
8-20=-128/7, 7-22=-129/138, 6-23=-120/139,
5-24=-116/141, 4-25=-140/138,
9-19=-129/138, 10-18=-120/139,
11-17=-116/141, 12-16=-140/137

LOAD CASE(S) Standard

BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)
2=21-11-0, 14=21-11-0,
16=21-11-0, 17=21-11-0,
18=21-11-0, 19=21-11-0,
20=21-11-0, 22=21-11-0,
23=21-11-0, 24=21-11-0,
25=21-11-0
Max Horiz 2=-124 (LC 13)
Max Uplift 2=-68 (LC 12), 14=-87 (LC 13),
16=-96 (LC 13), 17=-92 (LC 13),
18=-94 (LC 13), 19=-95 (LC 13),
22=-97 (LC 12), 23=-93 (LC 12),
24=-93 (LC 12), 25=-90 (LC 12)
Max Grav 2=221 (LC 1), 14=221 (LC 1),
16=197 (LC 1), 17=151 (LC 26),
18=161 (LC 1), 19=168 (LC 26),
20=168 (LC 22), 22=168 (LC 25),
23=161 (LC 1), 24=151 (LC 25),
25=197 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/40, 2-4=-113/71, 4-5=-75/83,
5-6=-49/109, 6-7=-57/165, 7-8=-80/234,
8-9=-80/234, 9-10=-57/165, 10-11=-35/96,
11-12=-36/32, 12-14=-70/46, 14-15=0/40
BOT CHORD 2-25=-38/145, 24-25=-38/145, 23-24=-38/145,
22-23=-38/145, 20-22=-38/145,
19-20=-38/145, 18-19=-38/145,
17-18=-38/145, 16-17=-38/145,
14-16=-38/145

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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 68 lb uplift at joint 2, 87 lb uplift at joint 14, 97 lb uplift at joint 22, 93 lb uplift at joint 23, 93 lb uplift at joint 24, 90 lb uplift at joint 25, 95 lb uplift at joint 19, 94 lb uplift at joint 18, 92 lb uplift at joint 17, 96 lb uplift at joint 16, 68 lb uplift at joint 2 and 87 lb uplift at joint 14.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 13, 2026

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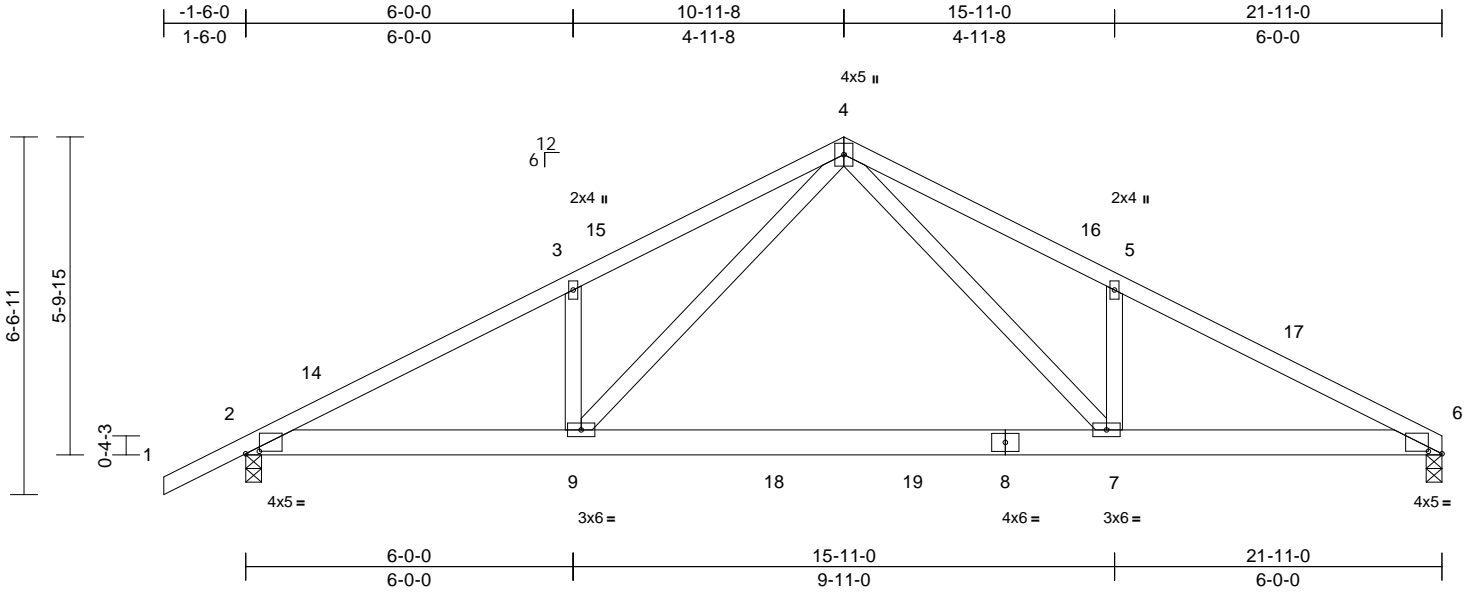
Job 5371017	Truss T02	Truss Type Common	Qty 6	Ply 1	Job Reference (optional) T40782483
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Scale = 1:42.2

Plate Offsets (X, Y): [2:0-3-0,0-0-9], [6:0-3-0,0-0-9]

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	0.41	Vert(LL)	0.24	7-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.99	Vert(CT)	-0.46	7-9	>577	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 119 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 3-6-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-8-4 oc bracing.

REACTIONS (size) 2=0-3-8, 6=0-3-8
Max Horiz 2=147 (LC 16)
Max Uplift 2=484 (LC 12), 6=431 (LC 13)
Max Grav 2=1288 (LC 2), 6=1208 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/40, 2-3=-2455/1045, 3-4=-2453/1180, 4-5=-2468/1198, 5-6=-2469/1076
BOT CHORD 2-9=-857/2173, 7-9=-458/1286, 6-7=-858/2157
WEBS 3-9=-316/287, 5-7=-319/289, 4-9=-592/1316, 4-7=-609/1332

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=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-11-8, Zone2 10-11-8 to 15-2-7, Zone1 15-2-7 to 21-11-0 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 3-06-00 tall by 2-00-00 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 431 lb uplift at joint 6 and 484 lb uplift at joint 2.
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, 4-6=-60, 2-9=-20, 7-9=-80, 6-7=-20

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

April 13,2026

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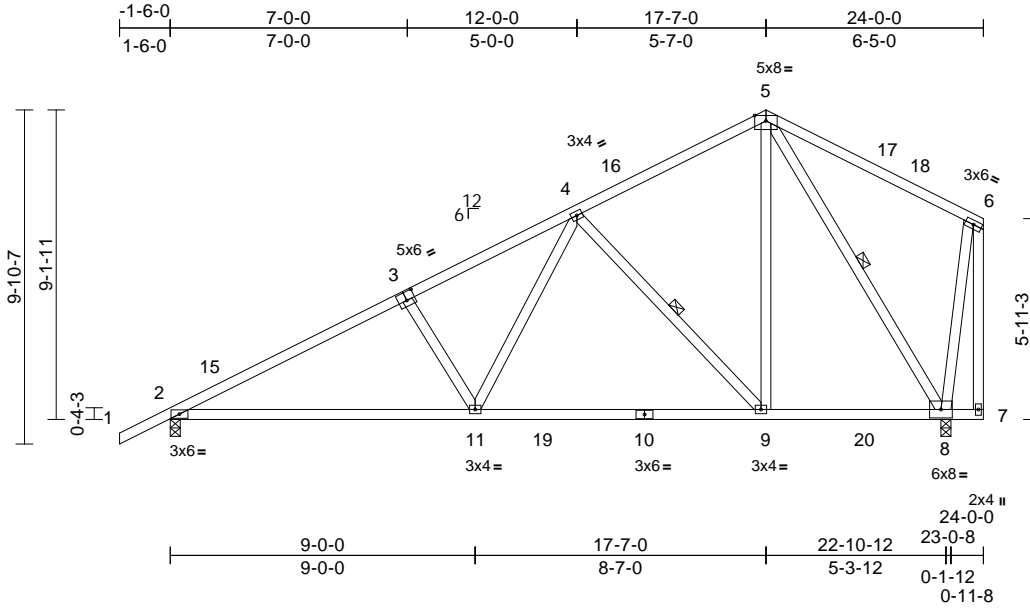
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 5371017	Truss T03	Truss Type Common	Qty 5	Ply 1	Job Reference (optional)	T40782484
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Page: 1



Scale = 1:68

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.17	9-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.32	11-14	>870	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.04	8	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 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-8 oc bracing.
WEBS 1 Row at midpt 4-9, 5-8

REACTIONS

(size) 2=0-3-8, 8=0-3-8
Max Horiz 2=373 (LC 12)
Max Uplift 2=-376 (LC 12), 8=-361 (LC 12)
Max Grav 2=1076 (LC 2), 8=1116 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/40, 2-4=-1646/511, 4-5=-627/271, 5-6=-69/115, 6-7=-43/2

BOT CHORD 2-11=-701/1435, 9-11=-452/964, 8-9=-175/505, 7-8=-14/17

WEBS 4-9=-684/408, 5-9=-247/806, 5-8=-994/352, 6-8=-172/185, 4-11=-231/709, 3-11=-349/286

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 17-7-0, Zone2 17-7-0 to 21-9-15, Zone1 21-9-15 to 23-10-4 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 361 lb uplift at joint 8 and 376 lb uplift at joint 2.

LOAD CASE(S) Standard

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:

April 13,2026

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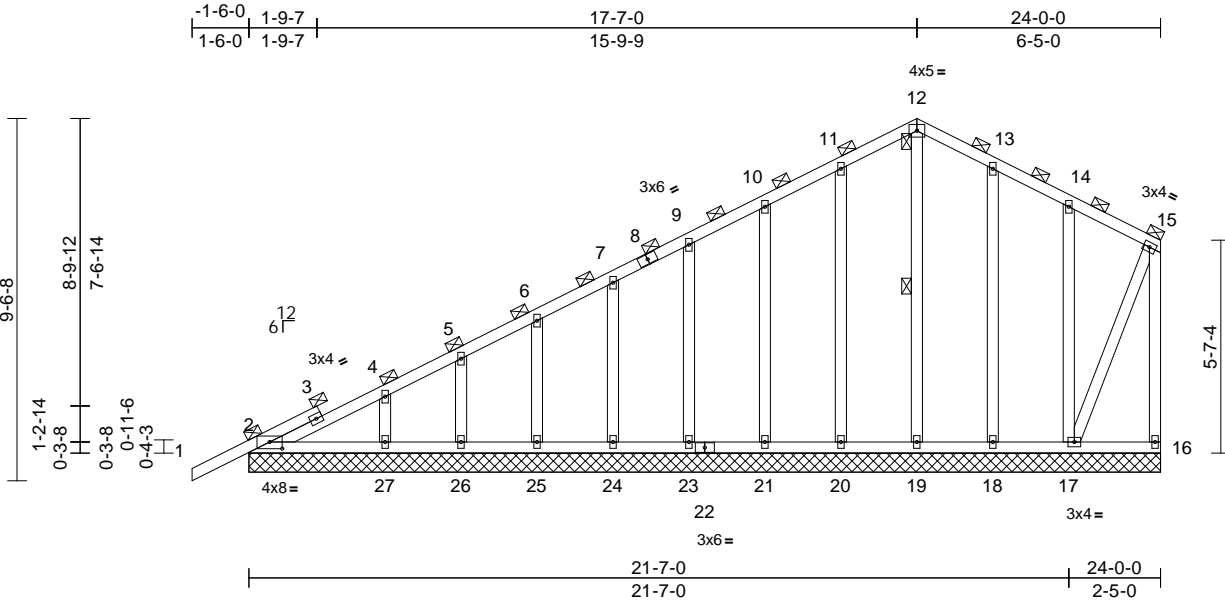
Job 5371017	Truss T03G	Truss Type Common Supported Gable	Qty 1	Ply 1	Job Reference (optional) T40782485
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Apr 2 2026 Print: 25.4.0 S Apr 2 2026 MiTek Industries, Inc. Fri Apr 10 08:19:20

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ID:PcpZYLSvTSCo6pQxBaWJzSBfw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f



Scale = 1:60.7

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

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	17	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 173 lb	FT = 20%

LUMBER		BOT CHORD		10)
TOP CHORD	2x4 SP No.2	2-27=-16/40, 26-27=-14/20, 25-26=-14/20,		Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 16, 31 lb uplift at joint 2, 95 lb uplift at joint 20, 94 lb uplift at joint 21, 93 lb uplift at joint 23, 93 lb uplift at joint 24, 94 lb uplift at joint 25, 90 lb uplift at joint 26, 98 lb uplift at joint 27, 91 lb uplift at joint 18, 161 lb uplift at joint 17 and 31 lb uplift at joint 2.
BOT CHORD	2x4 SP No.2	24-25=-14/20, 23-24=-14/20, 21-23=-14/20,		
WEBS	2x4 SP No.3	20-21=-14/20, 19-20=-14/20, 18-19=-14/20,		
OTHERS	2x4 SP No.3	17-18=-14/20, 16-17=-1/2		
BRACING		WEBS		11)
TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals.	12-19=-115/0, 11-20=-128/136,		Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 16-17.	10-21=-119/140, 9-23=-120/137,		
WEBS	1 Row at midpt 12-19	7-24=-119/137, 6-25=-124/138,		
		5-26=-104/138, 4-27=-171/146,		
		13-18=-124/130, 14-17=-141/165,		
		15-17=-37/54		

REACTIONS	(size)	2=24-0-0, 16=24-0-0, 17=24-0-0,		LOAD CASE(S)
		18=24-0-0, 19=24-0-0, 20=24-0-0,		Standard
		21=24-0-0, 23=24-0-0, 24=24-0-0,		
		25=24-0-0, 26=24-0-0, 27=24-0-0		
Max Horiz	2=357 (LC 12)			
Max Uplift	2=-31 (LC 8), 16=-51 (LC 12),			
	17=-161 (LC 13), 18=-91 (LC 13),			
	20=-95 (LC 12), 21=-94 (LC 12),			
	23=-93 (LC 12), 24=-93 (LC 12),			
	25=-94 (LC 12), 26=-90 (LC 12),			
	27=-98 (LC 12)			
Max Grav	2=233 (LC 25), 16=73 (LC 19),			
	17=198 (LC 26), 18=161 (LC 26),			
	19=156 (LC 22), 20=168 (LC 25),			
	21=159 (LC 25), 23=161 (LC 1),			
	24=158 (LC 25), 25=168 (LC 25),			
	26=129 (LC 1), 27=248 (LC 25)			
FORCES	(lb) - Maximum Compression/Maximum Tension			
TOP CHORD	15-16=-53/56, 1-2=0/40, 2-4=-316/120,			
	4-5=-248/80, 5-6=-194/65, 6-7=-139/54,			
	7-9=-85/60, 9-10=-46/74, 10-11=-39/109,			
	11-12=-61/178, 12-13=-61/177,			
	13-14=-41/112, 14-15=-24/47			

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; 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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 (||) MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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.

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:

April 13,2026

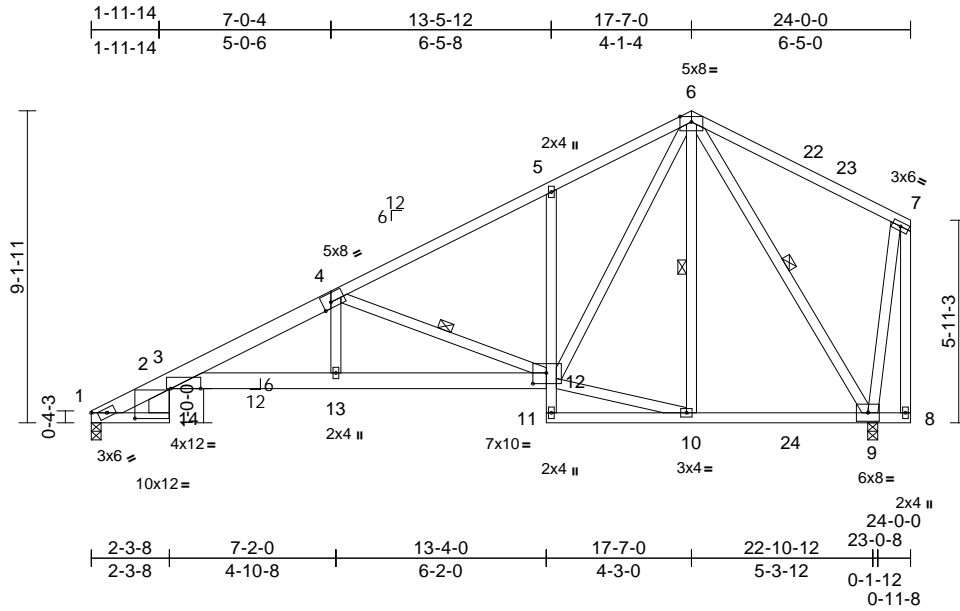
Job 5371017	Truss T04	Truss Type Roof Special	Qty 5	Ply 1	Job Reference (optional) T40782486
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Apr 2 2026 Print: 25.4.0 S Apr 2 2026 MiTek Industries, Inc. Fri Apr 10 08:19:21

Page: 1

ID:byOimZSFJwFPWtVgkGE00zSBY0-RfC?PsB70Hq3NSgPqnL8w3uITxBGKwRcDoi7J4zJC7f



Scale = 1:67.5

Plate Offsets (X, Y): [3:0-10-8,Edge], [4:0-3-0,Edge], [12:0-4-12,0-3-12], [14:1-3-6,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	0.21	13-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.31	13-21	>879	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.17	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 179 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 1-4:2x6 SP 2400F 2.0E or 2x6 SP M 26
BOT CHORD 2x4 SP No.2 *Except* 14-2:2x8 SP 2400F 2.0E, 3-12:2x6 SP 2400F 2.0E or 2x6 SP M 26, 5-11:2x4 SP No.3
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-1-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-6-14 oc bracing.
WEBS 1 Row at midpt 4-12, 6-10, 6-9

REACTIONS (size) 1=0-3-8, 9=0-3-8
Max Horiz 1=343 (LC 12)
Max Uplift 1=-322 (LC 12), 9=-361 (LC 12)
Max Grav 1=952 (LC 2), 9=1086 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1440/446, 2-3=-425/6, 3-5=-2356/998, 5-6=-1113/546, 6-7=-72/107, 7-8=-91/0
BOT CHORD 1-14=-599/1119, 2-14=-7/13, 3-13=-1297/2499, 12-13=-1040/2083, 11-12=0/67, 5-12=-318/278, 10-11=-45/67, 9-10=-176/475, 8-9=-15/17
WEBS 4-12=-1195/632, 6-12=-563/1026, 6-10=-7/165, 6-9=-922/357, 10-12=-136/431, 7-9=-157/198, 4-13=-112/510

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-1-12 to 3-3-0, Zone1 3-3-0 to 17-7-0, Zone2 17-7-0 to 21-9-15, Zone1 21-9-15 to 23-10-4 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 322 lb uplift at joint 1 and 361 lb uplift at joint 9.

LOAD CASE(S) Standard

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Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 13,2026

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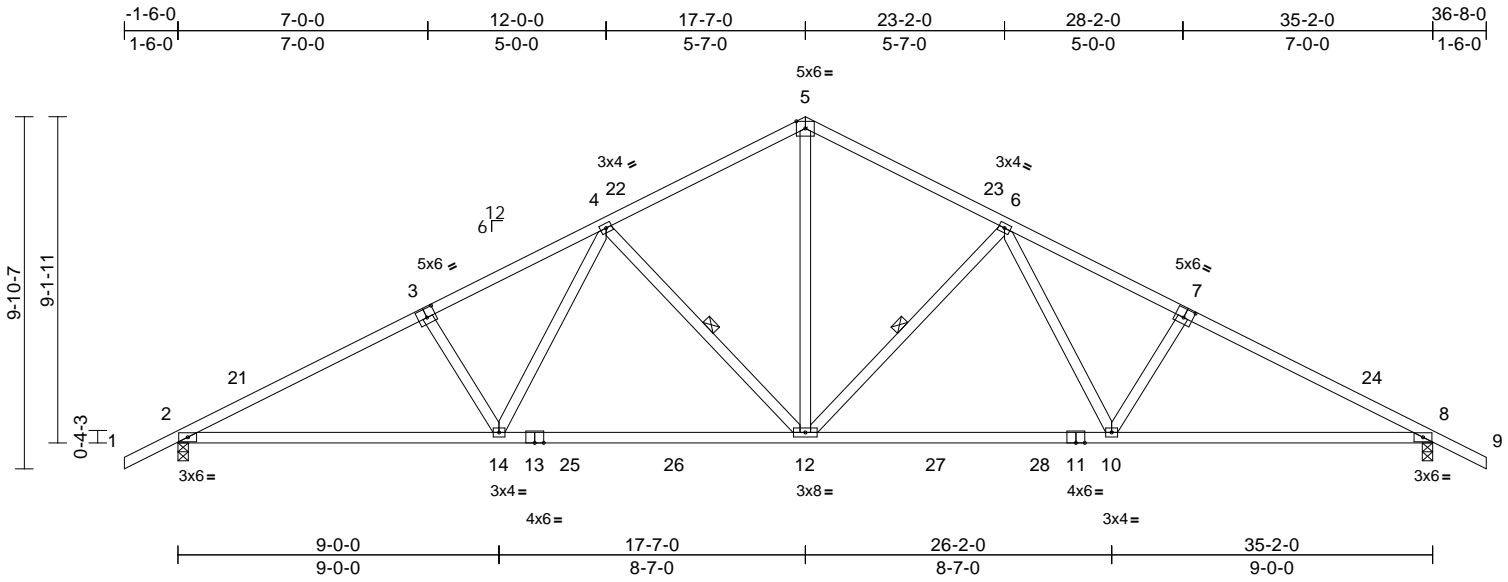
Job 5371017	Truss T05	Truss Type Common	Qty 7	Ply 1	Job Reference (optional) T40782487
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Apr 2 2026 Print: 25.4.0 S Apr 2 2026 MiTek Industries, Inc. Fri Apr 10 08:19:21

Page: 1

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Scale = 1:64.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	-0.24	10-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.43	10-12	>991	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.11	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS								
											Weight: 183 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1 *Except* 11-13:2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-8-0 oc bracing.
WEBS 1 Row at midpt 4-12, 6-12

REACTIONS (size) 2=0-3-8, 8=0-3-8
Max Horiz 2=-201 (LC 13)
Max Uplift 2=-539 (LC 12), 8=-539 (LC 13)
Max Grav 2=1613 (LC 2), 8=1613 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/40, 2-4=-2827/879, 4-5=-1831/699, 5-6=-1831/699, 6-8=-2827/879, 8-9=0/40
BOT CHORD 2-14=-848/2489, 12-14=-603/2034, 10-12=-500/2034, 8-10=-667/2489
WEBS 4-14=-227/685, 3-14=-339/282, 4-12=-674/409, 5-12=-405/1308, 6-12=-674/410, 6-10=-227/685, 7-10=-339/282

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 2-0-3, Zone1 2-0-3 to 17-7-0, Zone2 17-7-0 to 22-6-11, Zone1 22-6-11 to 36-8-0 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.

- 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 539 lb uplift at joint 8 and 539 lb uplift at joint 2.

LOAD CASE(S) Standard

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

April 13, 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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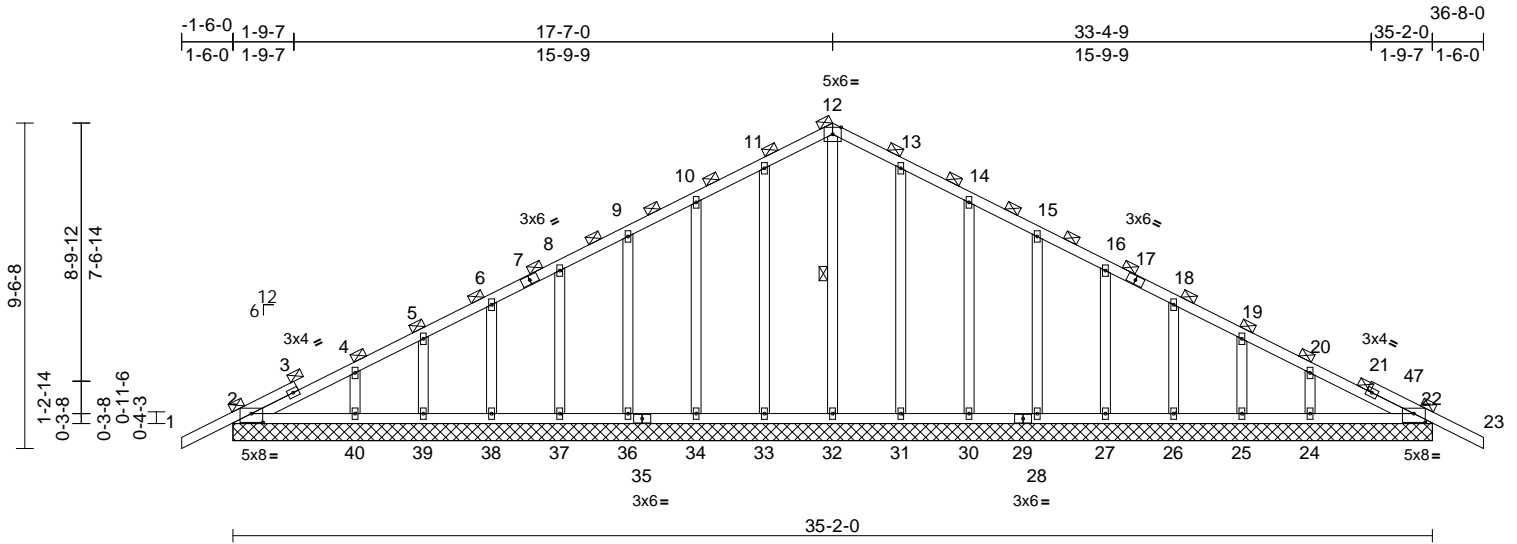
Job 5371017	Truss T05G	Truss Type Common Supported Gable	Qty 1	Ply 1	Job Reference (optional) T40782488
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Apr 2 2026 Print: 25.4.0 S Apr 2 2026 MiTek Industries, Inc. Fri Apr 10 08:19:21

Page: 1

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Scale = 1:67.6

Plate Offsets (X, Y): [2:0-4-0,0-3-1], [22:0-4-0,0-3-1]

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	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	22	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS								Weight: 221 lb FT = 20%

LUMBER		TOP CHORD	1-2=0/40, 2-4=-213/100, 4-5=-154/110, 5-6=-101/128, 6-8=-64/149, 8-9=-50/180, 9-10=-71/232, 10-11=-93/303, 11-12=-113/368, 12-13=-113/368, 13-14=-93/303, 14-15=-71/232, 15-16=-50/163, 16-18=-30/94, 18-19=-31/50, 19-20=-71/35, 20-22=-134/76, 22-23=0/40	5) All plates are 2x4 () MT20 unless otherwise indicated.
TOP CHORD	2x4 SP No.2			6) Gable requires continuous bottom chord bearing.
BOT CHORD	2x4 SP No.2			7) Gable studs spaced at 2-0-0 oc.
OTHERS	2x4 SP No.3			8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

BRACING		BOT CHORD	2-40=-63/213, 39-40=-63/213, 38-39=-63/213, 37-38=-63/213, 36-37=-63/213, 34-36=-63/213, 33-34=-63/213, 32-33=-63/213, 31-32=-63/213, 30-31=-63/213, 28-30=-63/213, 27-28=-63/213, 26-27=-63/213, 25-26=-63/213, 24-25=-63/213, 22-24=-63/213	9) * 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.
TOP CHORD	2-0-0 oc purlins (6-0-0 max.).			10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 22, 61 lb uplift at joint 2, 91 lb uplift at joint 33, 96 lb uplift at joint 34, 93 lb uplift at joint 36, 93 lb uplift at joint 37, 95 lb uplift at joint 38, 87 lb uplift at joint 39, 108 lb uplift at joint 40, 88 lb uplift at joint 31, 97 lb uplift at joint 30, 92 lb uplift at joint 28, 93 lb uplift at joint 27, 95 lb uplift at joint 26, 84 lb uplift at joint 25, 117 lb uplift at joint 24, 63 lb uplift at joint 22 and 61 lb uplift at joint 2.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.			11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 22.
WEBS	1 Row at midpt 12-32			12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

REACTIONS	(size)	WEBS	12-32=-211/35, 11-33=-128/128, 10-34=-119/143, 9-36=-120/136, 8-37=-119/137, 6-38=-124/139, 5-39=-104/133, 4-40=-171/163, 13-31=-128/128, 14-30=-119/143, 15-28=-120/136, 16-27=-119/137, 18-26=-124/139, 19-25=-104/134, 20-24=-170/162
	2=35-2-0, 22=35-2-0, 24=35-2-0, 25=35-2-0, 26=35-2-0, 27=35-2-0, 28=35-2-0, 30=35-2-0, 31=35-2-0, 32=35-2-0, 33=35-2-0, 34=35-2-0, 36=35-2-0, 37=35-2-0, 38=35-2-0, 39=35-2-0, 40=35-2-0		
Max Horiz	2=-195 (LC 17)		
Max Uplift	2=-61 (LC 8), 22=-63 (LC 13), 24=-117 (LC 13), 25=-84 (LC 13), 26=-95 (LC 13), 27=-93 (LC 13), 28=-92 (LC 13), 30=-97 (LC 13), 31=-88 (LC 13), 33=-91 (LC 12), 34=-96 (LC 12), 36=-93 (LC 12), 37=-93 (LC 12), 38=-95 (LC 12), 39=-87 (LC 12), 40=-108 (LC 12)		
Max Grav	2=234 (LC 1), 22=215 (LC 1), 24=245 (LC 1), 25=130 (LC 26), 26=167 (LC 1), 27=158 (LC 26), 28=161 (LC 1), 30=159 (LC 1), 31=168 (LC 26), 32=216 (LC 22), 33=168 (LC 25), 34=159 (LC 1), 36=161 (LC 1), 37=158 (LC 25), 38=168 (LC 1), 39=129 (LC 25), 40=248 (LC 1)		

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=18ft; Cat. II; Exp C; 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) 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.	

FORCES	(lb) - Maximum Compression/Maximum Tension

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:

April 13,2026

Continued on page 2

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

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

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Job	Truss	Truss Type	Qty	Ply	T40782488
5371017	T05G	Common Supported Gable	1	1	Job Reference (optional)

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

Run: 25.40 S Apr 2 2026 Print: 25.4.0 S Apr 2 2026 MiTek Industries, Inc. Fri Apr 10 08:19:21
 ID:RioElxYqJz4GpwlvpnfmbzSBOs-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Page: 2

LOAD CASE(S) Standard

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

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 Chesterfield, MO 63017
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Job 5371017	Truss T06	Truss Type Roof Special	Qty 10	Ply 1	Job Reference (optional) T40782489
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Apr 2 2026 Print: 25.4.0 S Apr 2 2026 MiTek Industries, Inc. Fri Apr 10 08:19:21
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Page: 1

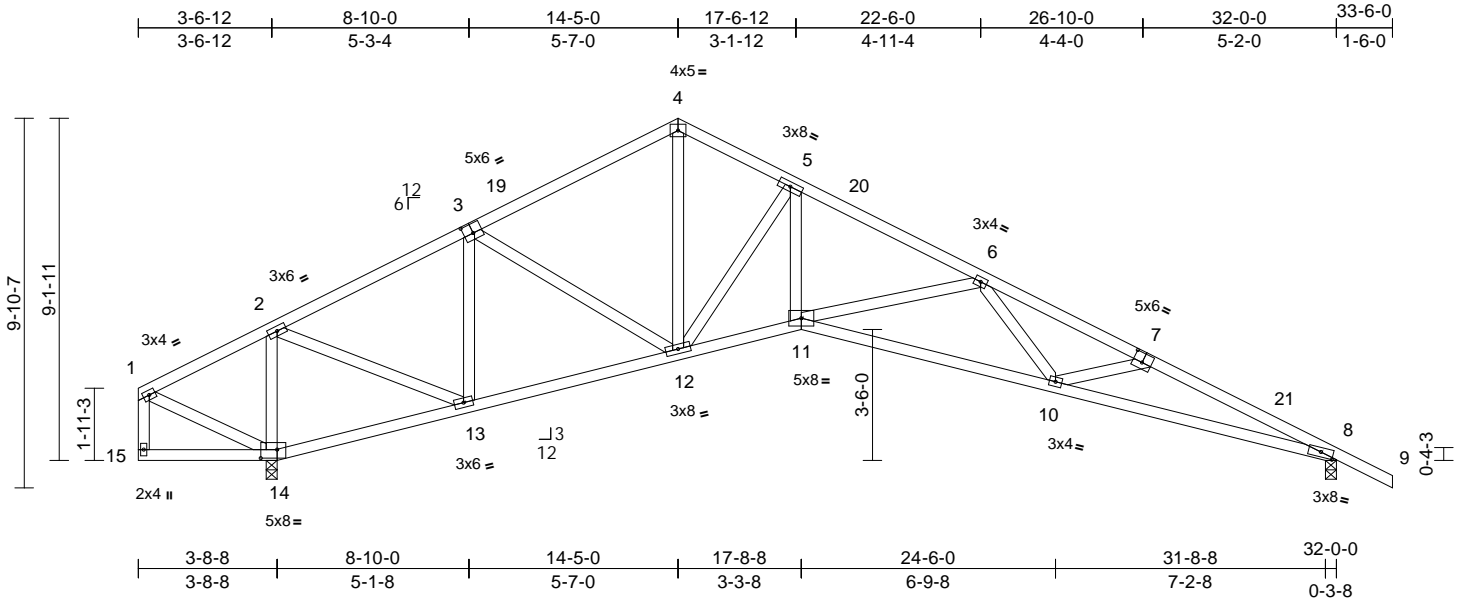


Plate Offsets (X, Y): [3:0-3-0,0-3-0], [7:0-3-0,0-3-0], [8:0-4-0,0-1-9], [14:0-5-4,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.24	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.53	10-11	>639	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.30	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 179 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 2-10-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-8-14 oc bracing.

REACTIONS (size) 8=0-3-8, 14=0-3-8
Max Horiz 14=-262 (LC 13)
Max Uplift 8=-461 (LC 13), 14=-473 (LC 12)
Max Grav 8=1206 (LC 1), 14=1432 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-125/172, 2-4=-1409/483, 4-5=-1369/497, 5-6=-2435/696, 6-8=-3731/1265, 8-9=0/40, 1-15=-61/63
BOT CHORD 14-15=-25/13, 13-14=-206/311, 12-13=-296/1001, 11-12=-382/2127, 10-11=-715/2914, 8-10=-1053/3389
WEBS 2-14=-1253/510, 5-12=-1536/489, 1-14=-127/195, 2-13=-342/1192, 3-13=-610/249, 3-12=-31/306, 4-12=-290/945, 5-11=-324/1497, 6-11=-723/457, 6-10=-143/487, 7-10=-266/264

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 3-3-12 to 6-8-12, Zone1 6-8-12 to 17-7-0, Zone2 17-7-0 to 22-1-5, Zone1 22-1-5 to 36-8-0 zone; cantilever left 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.
- Bearing at joint(s) 8 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 473 lb uplift at joint 14 and 461 lb uplift at joint 8.

LOAD CASE(S) Standard

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

April 13,2026

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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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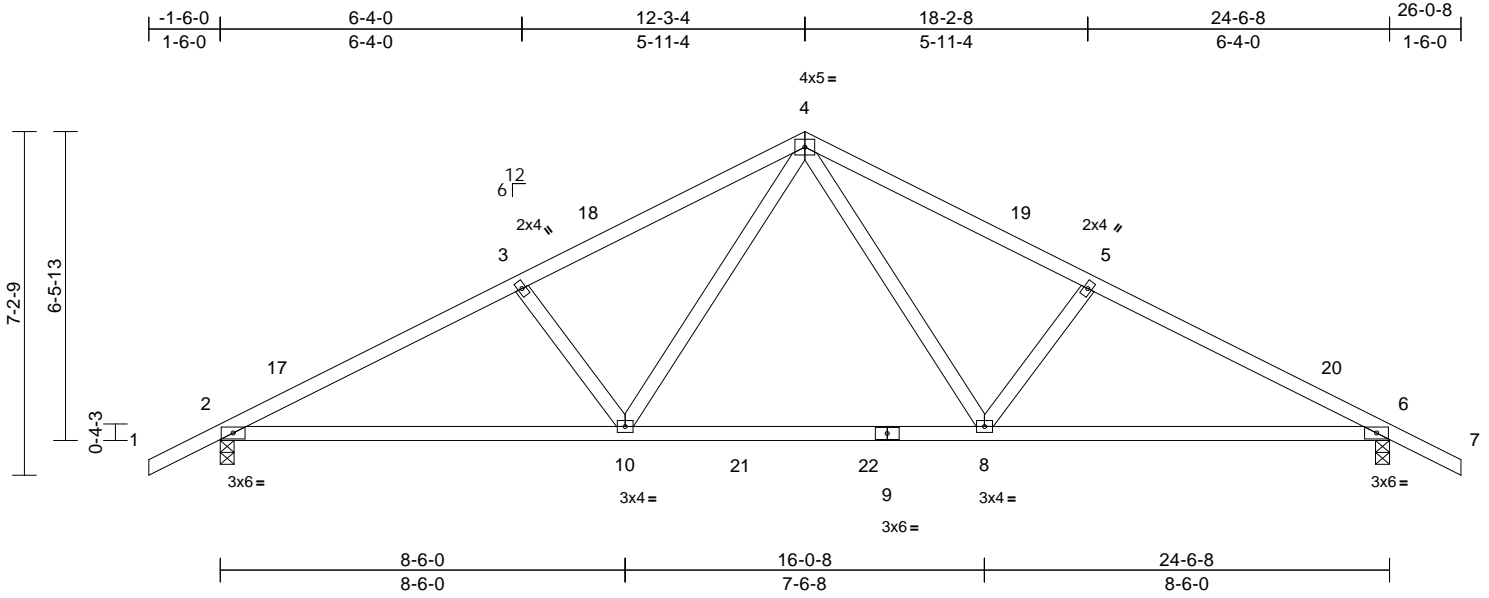
Job 5371017	Truss T08	Truss Type Common	Qty 2	Ply 1	Job Reference (optional) T40782491
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Scale = 1:48.4

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	0.47	Vert(LL)	0.19	10-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.28	10-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 114 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 3-10-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 5-7-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 6=0-3-8
 Max Horiz 2=145 (LC 16)
 Max Uplift 2=-436 (LC 9), 6=-436 (LC 8)
 Max Grav 2=1138 (LC 2), 6=1138 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/40, 2-3=-1824/1191, 3-4=-1658/1168, 4-5=-1658/1168, 5-6=-1824/1191, 6-7=0/40
 BOT CHORD 2-10=-959/1603, 8-10=-549/1062, 6-8=-984/1603
 WEBS 4-8=-511/685, 5-8=-382/315, 4-10=-511/685, 3-10=-382/315

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-3-4, Zone2 12-3-4 to 16-6-3, Zone1 16-6-3 to 26-0-8 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 436 lb uplift at joint 2 and 436 lb uplift at joint 6.

LOAD CASE(S) Standard

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

April 13,2026

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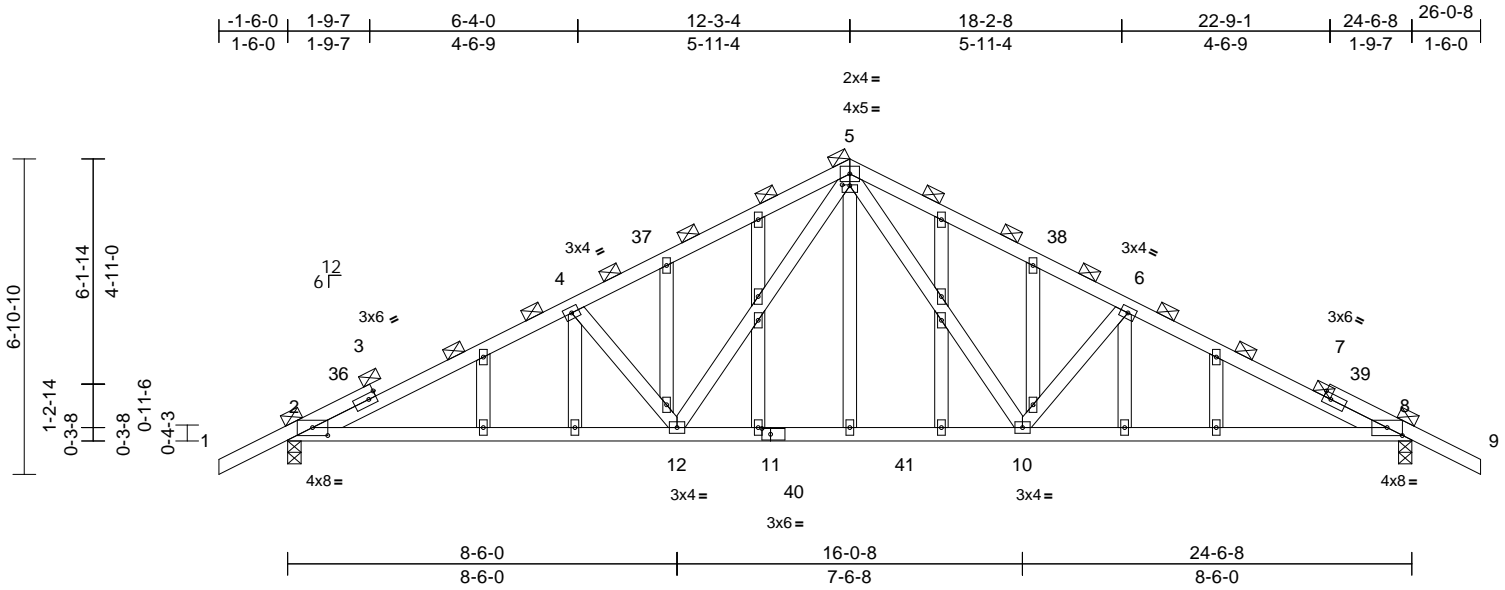
Job 5371017	Truss T08G	Truss Type Common Supported Gable	Qty 1	Ply 1	Job Reference (optional) T40782492
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Scale = 1:50.3

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

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	0.81	Vert(LL)	0.21	12-32	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.33	10-35	>871	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 160 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 2-5,5-8:2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING
TOP CHORD 2-0-0 oc purlins (2-9-3 max.).
BOT CHORD Rigid ceiling directly applied or 5-3-0 oc bracing.

REACTIONS (size) 2=0-3-8, 8=0-3-8
Max Horiz 2=138 (LC 16)
Max Uplift 2=-434 (LC 9), 8=-434 (LC 8)
Max Grav 2=1115 (LC 2), 8=1115 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/44, 2-4=-1926/1273, 4-5=-1748/1225, 5-6=-1748/1225, 6-8=-1926/1273, 8-9=0/44
BOT CHORD 2-12=-1066/1738, 10-12=-575/1086, 8-10=-1087/1738
WEBS 5-12=-556/745, 5-10=-556/745, 4-12=-437/338, 6-10=-437/338

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-3-4, Zone2 12-3-4 to 16-6-3, Zone1 16-6-3 to 26-0-8 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.

- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 434 lb uplift at joint 2 and 434 lb uplift at joint 8.
- 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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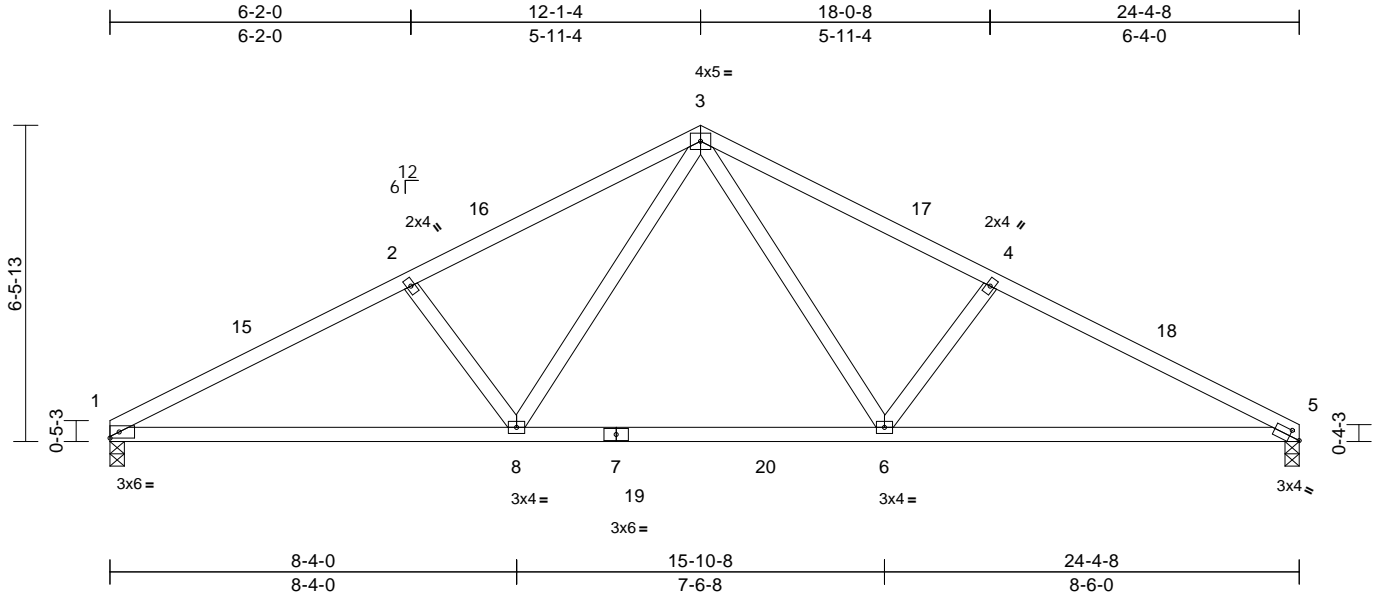
Job 5371017	Truss T09	Truss Type Common	Qty 2	Ply 1	Job Reference (optional) T40782493
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Scale = 1:47.2

Plate Offsets (X, Y): [5:0-2-10,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	0.21	6-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.29	6-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.05	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 or 3-8-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 5-4-2 oc bracing.

REACTIONS

(size) 1=0-3-8, 5=0-3-8
 Max Horiz 1=-131 (LC 13)
 Max Uplift 1=-411 (LC 9), 5=-413 (LC 8)
 Max Grav 1=1056 (LC 2), 5=1056 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-1797/1208, 2-3=-1635/1190,
 3-4=-1662/1207, 4-5=-1828/1227
 BOT CHORD 1-8=-1000/1574, 6-8=-584/1057,
 5-6=-1026/1609
 WEBS 3-6=-518/700, 4-6=-390/321, 3-8=-490/661,
 2-8=-372/314

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-2-0 to 3-2-0, Zone1 3-2-0 to 12-3-4, Zone2 12-3-4 to 16-6-3, Zone1 16-6-3 to 24-6-8 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 411 lb uplift at joint 1 and 413 lb uplift at joint 5.

LOAD CASE(S) Standard

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

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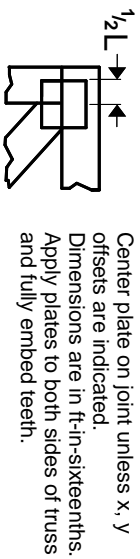
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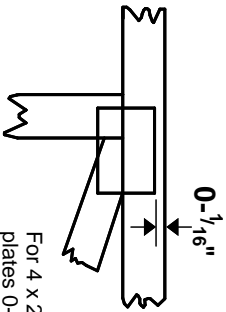
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Symbols

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 MITtek software or upon request.

PLATE SIZE

4 X 4

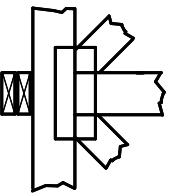
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

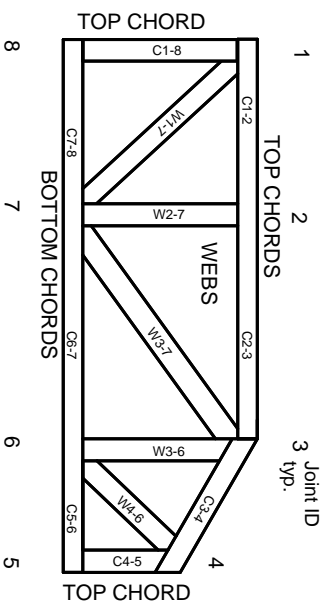


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TFP1: 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-1-1988, 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/TFP 1 section 6.3. These truss designs rely on Lumber values established by others.

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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/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 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/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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