



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

RE: 5554471 -

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: G. BUZBEE, INC. Project Name: DuBose Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD S US HWY 441, N/A
City: HIGH SPRINGS, State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:
Address:
City: State:

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

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

This package includes 11 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	T41943001	T01	7/22/26
2	T41943002	T01G	7/22/26
3	T41943003	T02	7/22/26
4	T41943004	T02G	7/22/26
5	T41943005	T03	7/22/26
6	T41943006	T03A	7/22/26
7	T41943007	T03G	7/22/26
8	T41943008	T04	7/22/26
9	T41943009	T04G	7/22/26
10	T41943010	T05	7/22/26
11	T41943011	T05G	7/22/26



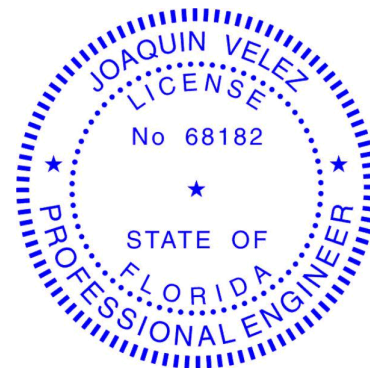
This item has been digitally signed and sealed by Velez, Joaquin, PE on the date adjacent to the seal.

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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.

July 22, 2026

Velez, Joaquin

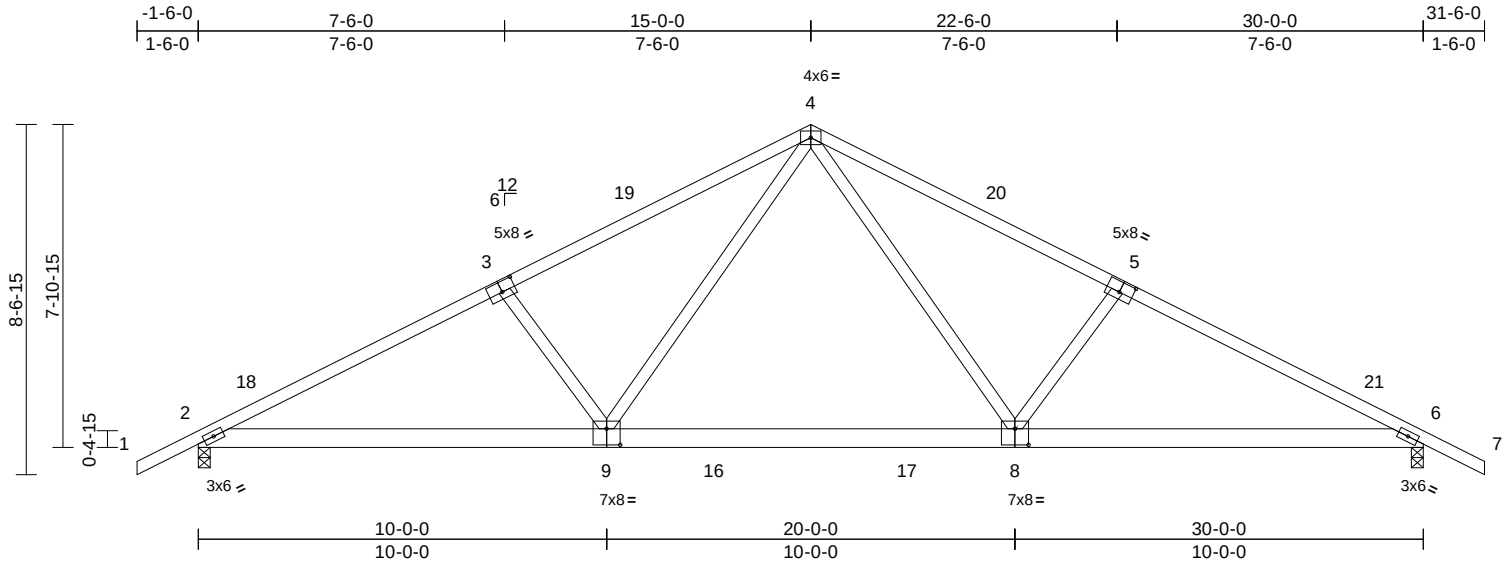
1 of 1

Job	Truss	Truss Type	Qty	Ply	T41943001
5554471	T01	Common	8	1	Job Reference (optional)

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

Run: 25.40 S Jul 9 2026 Print: 25.40 S Jul 9 2026 MiTek Industries, Inc. Tue Jul 21 14:31:22
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Page: 1



Scale = 1:56.4												
Plate Offsets (X, Y): [3:0-4-0,0-3-0], [5:0-4-0,0-3-0], [8:0-4-0,0-4-12], [9:0-4-0,0-4-12]												
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	0.71	Vert(LL)	-0.21	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.41	8-9	>877	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 164 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31 *Except* 5-7,3-1:2x4 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 or 3-0-1 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=-138 (LC 13)
Max Uplift	2=-413 (LC 12), 6=-413 (LC 13)
Max Grav	2=1648 (LC 2), 6=1648 (LC 2)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/40, 2-4=-2950/718, 4-6=-2950/718, 6-7=0/40
BOT CHORD	2-6=-671/2606
WEBS	4-8=-341/1236, 5-8=-429/283, 4-9=-341/1236, 3-9=-429/282

- 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 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 31-6-0 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.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 413 lb uplift at joint 2 and 413 lb uplift at joint 6.
- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 9-10=-20, 8-9=-80, 8-13=-20, 1-4=-60, 4-7=-60

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

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

July 22,2026

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

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

MiTek®

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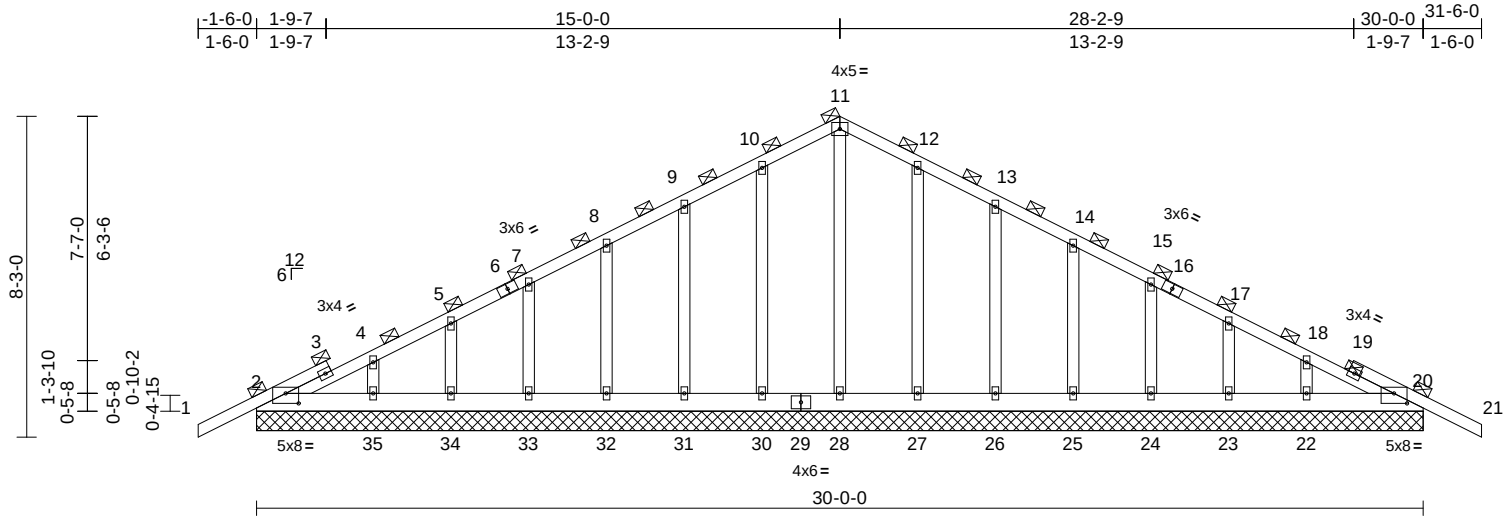
Job	Truss	Truss Type	Qty	Ply	
5554471	T01G	Common Supported Gable	1	1	T41943002
Job Reference (optional)					

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

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Page: 1

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Scale = 1:59.2

Plate Offsets (X, Y): [2:0-4-0,0-3-1], [20:0-4-0,0-3-1]

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	0.16	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	39	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 199 lb FT = 20%											

LUMBER		BOT CHORD		2-35=-53/149, 34-35=-53/149, 33-34=-53/149, 32-33=-53/149, 31-32=-53/149, 30-31=-53/149, 28-30=-53/149, 27-28=-53/149, 26-27=-53/149, 25-26=-53/149, 24-25=-53/149, 23-24=-53/149, 22-23=-53/149, 20-22=-53/149		11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 2, 42 lb uplift at joint 20, 68 lb uplift at joint 30, 69 lb uplift at joint 31, 67 lb uplift at joint 32, 68 lb uplift at joint 33, 69 lb uplift at joint 34, 58 lb uplift at joint 35, 67 lb uplift at joint 27, 70 lb uplift at joint 26, 67 lb uplift at joint 25, 68 lb uplift at joint 24, 68 lb uplift at joint 23, 63 lb uplift at joint 22, 36 lb uplift at joint 2 and 42 lb uplift at joint 20.	
TOP CHORD 2x4 SP No.2				11-28=-127/20, 10-30=-128/85, 9-31=-119/91, 8-32=-120/88, 7-33=-120/88, 5-34=-119/91, 4-35=-127/77, 12-27=-128/85, 13-26=-119/90, 14-25=-120/88, 15-24=-120/88, 17-23=-119/91, 18-22=-127/77		12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.	
OTHERS 2x4 SP No.3		WEBS				LOAD CASE(S) Standard	
BRACING		NOTES					
TOP CHORD 2-0-0 oc purlins (6-0-0 max.).		1) Unbalanced roof live loads have been considered for this design.					
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.		2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.					
REACTIONS (size)		2=30-0-0, 20=30-0-0, 22=30-0-0, 23=30-0-0, 24=30-0-0, 25=30-0-0, 26=30-0-0, 27=30-0-0, 28=30-0-0, 30=30-0-0, 31=30-0-0, 32=30-0-0, 33=30-0-0, 34=30-0-0, 35=30-0-0		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 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60			
Max Horiz 2=-132 (LC 13)		4) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.					
Max Uplift 2=-36 (LC 8), 20=-42 (LC 13), 22=-63 (LC 13), 23=-68 (LC 13), 24=-68 (LC 13), 25=-67 (LC 13), 26=-70 (LC 13), 27=-67 (LC 13), 30=-68 (LC 12), 31=-69 (LC 12), 32=-67 (LC 12), 33=-68 (LC 12), 34=-69 (LC 12), 35=-58 (LC 12)		5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.					
Max Grav 2=222 (LC 1), 20=222 (LC 1), 22=204 (LC 1), 23=147 (LC 26), 24=163 (LC 1), 25=159 (LC 26), 26=159 (LC 1), 27=168 (LC 26), 28=167 (LC 22), 30=168 (LC 25), 31=159 (LC 1), 32=159 (LC 25), 33=163 (LC 1), 34=147 (LC 25), 35=204 (LC 1)		6) All plates are 2x4 () MT20 unless otherwise indicated.					
FORCES (lb) - Maximum Compression/Maximum Tension		7) Gable requires continuous bottom chord bearing.					
TOP CHORD 1-2=0/40, 2-4=-142/53, 4-5=-110/59, 5-7=-76/72, 7-8=-54/92, 8-9=-44/116, 9-10=-62/152, 10-11=-81/197, 11-12=-81/197, 12-13=-62/152, 13-14=-44/104, 14-15=-38/57, 15-17=-45/31, 17-18=-69/25, 18-20=-102/39, 20-21=0/40		8) Gable studs spaced at 2-0-0 oc.					
		9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.					
		10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.					

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
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Chesterfield, MO 63017
Date:

July 22,2026

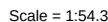
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Tue Jul 21 14:31:24 Page: 1
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[illegible]

- 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 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 30-0-0 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.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 284 lb uplift at joint 6 and 323 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.

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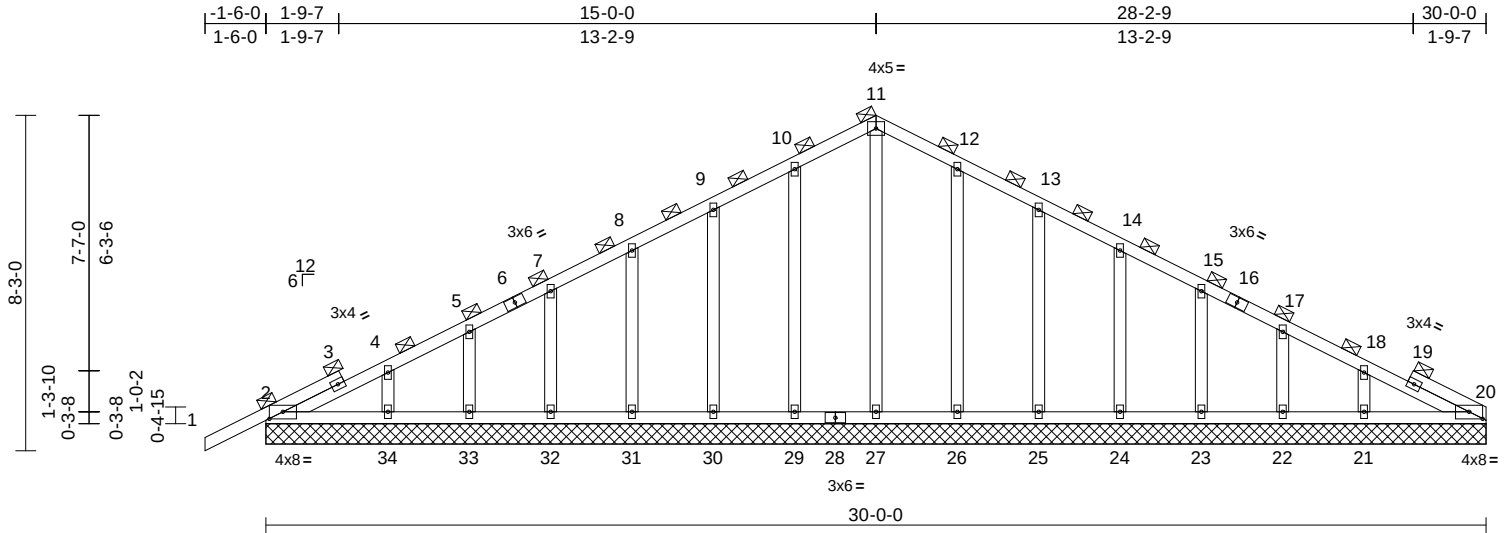
Job	Truss	Truss Type	Qty	Ply	
5554471	T02G	Common Supported Gable	1	1	T41943004
Job Reference (optional)					

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

Run: 25.40 S Jul 9 2026 Print: 25.40 S Jul 9 2026 MiTek Industries, Inc. Tue Jul 21 14:31:24

Page: 1

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Scale = 1:56.7									
Plate Offsets (X, Y): [2:0-4-0,0-2-1], [20:0-4-0,0-2-1]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	n/a	-	n/a
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	n/a	-	n/a
BCLL	0.0*	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.01	20	n/a
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS					
PLATES MT20 GRIP 244/190									
Weight: 175 lb FT = 20%									

LUMBER		BOT CHORD		2-34=-38/111, 33-34=-38/111, 32-33=-38/111, 31-32=-38/111, 30-31=-38/111, 29-30=-38/111, 27-29=-38/111, 26-27=-38/111, 25-26=-38/111, 24-25=-38/111, 23-24=-38/111, 22-23=-38/111, 21-22=-38/111, 20-21=-38/111		11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 2, 68 lb uplift at joint 29, 69 lb uplift at joint 30, 67 lb uplift at joint 31, 68 lb uplift at joint 32, 68 lb uplift at joint 33, 64 lb uplift at joint 34, 66 lb uplift at joint 26, 70 lb uplift at joint 25, 67 lb uplift at joint 24, 70 lb uplift at joint 23, 60 lb uplift at joint 22, 88 lb uplift at joint 21 and 39 lb uplift at joint 2.	
TOP CHORD		2x4 SP No.2					
BOT CHORD		2x4 SP No.2					
OTHERS		2x4 SP No.3					
BRACING				WEBS			
TOP CHORD		2-0-0 oc purlins (6-0-0 max.).		11-27=-132/23, 10-29=-128/85, 9-30=-119/91, 8-31=-120/88, 7-32=-121/88, 5-33=-115/90, 4-34=-143/87, 12-26=-128/85, 13-25=-119/91, 14-24=-120/87, 15-23=-122/89, 17-22=-110/85, 18-21=-160/97		12) 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 10-0-0 oc bracing.					
REACTIONS		(size)		NOTES		LOAD CASE(S) Standard	
		2=30-0-0, 20=30-0-0, 21=30-0-0, 22=30-0-0, 23=30-0-0, 24=30-0-0, 25=30-0-0, 26=30-0-0, 27=30-0-0, 29=30-0-0, 30=30-0-0, 31=30-0-0, 32=30-0-0, 33=30-0-0, 34=30-0-0		1) Unbalanced roof live loads have been considered for this design.			
Max Horiz		2=144 (LC 16)		2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.			
Max Uplift		2=-39 (LC 8), 21=-88 (LC 13), 22=-60 (LC 13), 23=-70 (LC 13), 24=-67 (LC 13), 25=-70 (LC 13), 26=-66 (LC 13), 29=-68 (LC 12), 30=-69 (LC 12), 31=-67 (LC 12), 32=-68 (LC 12), 33=-68 (LC 12), 34=-64 (LC 12)		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 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60			
Max Grav		2=223 (LC 1), 20=105 (LC 1), 21=239 (LC 1), 22=136 (LC 26), 23=166 (LC 1), 24=159 (LC 26), 25=159 (LC 1), 26=168 (LC 26), 27=172 (LC 22), 29=168 (LC 25), 30=159 (LC 1), 31=160 (LC 25), 32=163 (LC 1), 33=149 (LC 25), 34=200 (LC 1)		4) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.			
FORCES		(lb) - Maximum Compression/Maximum Tension		5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.			
TOP CHORD		1-2=0/40, 2-4=-145/60, 4-5=-107/66, 5-7=-77/79, 7-8=-56/104, 8-9=-47/128, 9-10=-65/156, 10-11=-83/202, 11-12=-83/202, 12-13=-65/156, 13-14=-47/108, 14-15=-37/62, 15-17=-38/31, 17-18=-64/21, 18-20=-97/39		6) All plates are 2x4 (I) MT20 unless otherwise indicated.			
				7) Gable requires continuous bottom chord bearing.			
				8) Gable studs spaced at 2-0-0 oc.			
				9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.			
				10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.			

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.

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

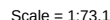
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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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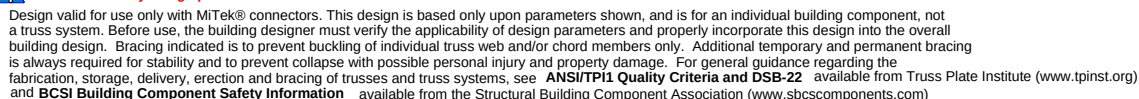
Builders FirstSource (Lake City,FL), Lake City, FL - 32055, Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Tue Jul 21 14:31:24 Page: 1
ID:7oHR ND Dsai4RXbGe?PfDz YAt-RfC?PsB70Hq3NSqPanL8w3uITXbGKWrcD0i7J4zJC?f



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	0.73	Vert(LL)	0.16	14-20	>686	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.55	10-12	>656	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 190 lb	FT = 20%

LOAD CASE(S) Standard

July 22, 2026



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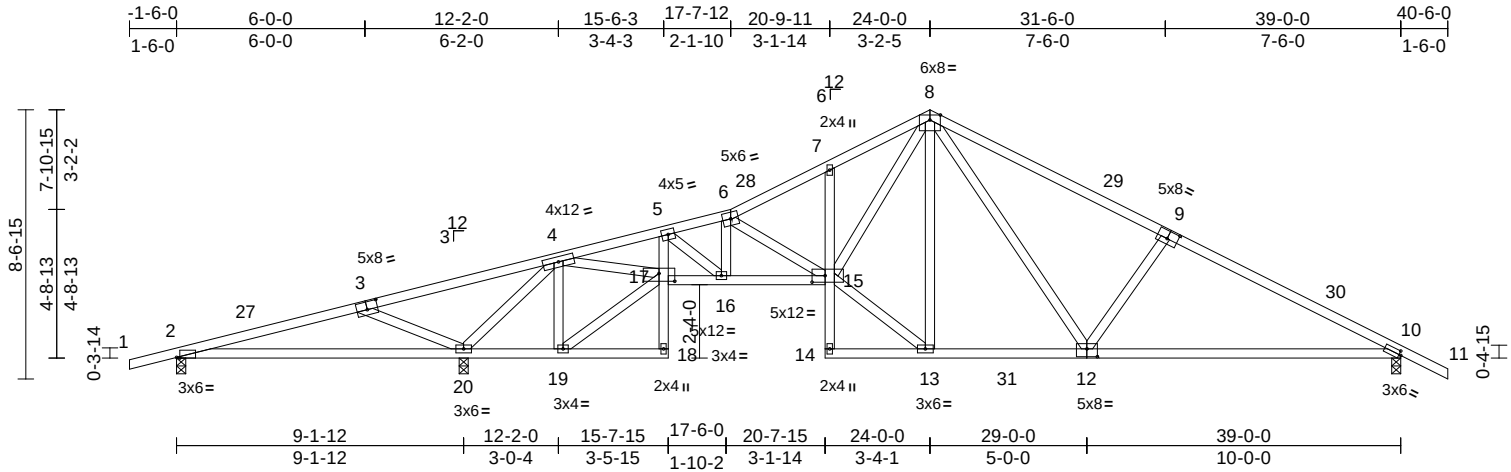
Job	Truss	Truss Type	Qty	Ply	
5554471	T03A	Roof Special	1	1	T41943006
Job Reference (optional)					

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

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Scale = 1:73.4

Plate Offsets (X, Y): [2:0-1-4,Edge], [3:0-4-0,0-3-0], [9:0-4-0,0-3-0], [10:0-0-12,0-1-8], [12:0-4-0,0-3-0], [15:0-5-0,0-2-8], [17:0-6-0,0-3-0]

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	0.94	Vert(LL)	0.14	20-23	>795	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.53	12-26	>679	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.13	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 221 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 18-5,7-14:2x4 SP No.3
WEBS 2x4 SP No.3

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

REACTIONS (size) 2=0-3-8, 10=0-3-8, 20=0-3-8
Max Horiz 2=-143 (LC 17)
Max Uplift 2=-205 (LC 10), 10=-309 (LC 13), 20=-566 (LC 12)
Max Grav 2=40 (LC 25), 10=1199 (LC 2), 20=2376 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-4=-539/2148, 4-5=-1797/373, 5-6=-2101/425, 6-7=-1908/379, 7-8=-1876/442, 8-10=-1848/468, 10-11=0/40
BOT CHORD 2-20=-1516/239, 19-20=-295/123, 18-19=-5/36, 17-18=-2/82, 5-17=-380/123, 16-17=-347/1767, 15-16=-371/2045, 14-15=0/66, 7-15=-196/127, 13-14=-5/31, 10-13=-314/1617
WEBS 5-16=-96/345, 6-16=-242/88, 6-15=-431/142, 8-15=-296/1351, 8-12=-236/781, 9-12=-463/294, 4-17=-380/2040, 8-13=-567/82, 13-15=-110/1156, 4-20=-2507/642, 3-20=-653/344, 4-19=-63/259, 17-19=-411/157

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.

- 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 2-4-13, Zone1 2-4-13 to 24-0-0, Zone2 24-0-0 to 29-6-3, Zone1 29-6-3 to 40-6-0 zone; porch 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 2, 566 lb uplift at joint 20 and 309 lb uplift at joint 10.

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:

July 22,2026

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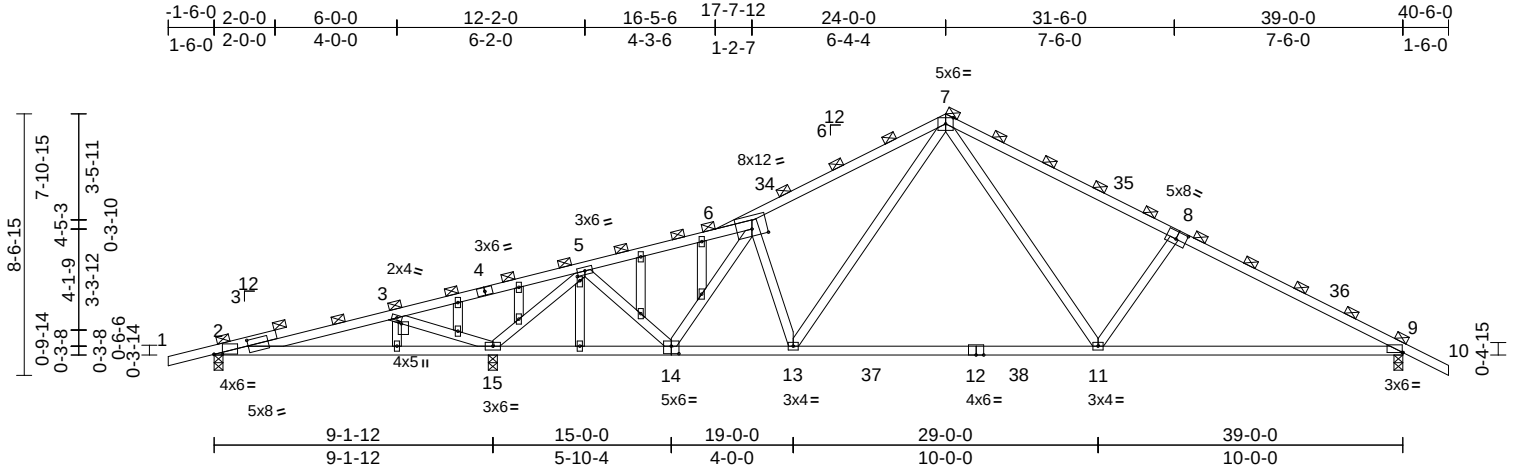
Job	Truss	Truss Type	Qty	Ply	
5554471	T03G	Roof Special	1	1	T41943007
Job Reference (optional)					

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

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Page: 1

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Scale = 1:75.6

Plate Offsets (X, Y): [2:0-3-4,0-0-2], [2:1-1-13,0-2-4], [6:0-6-0,0-2-12], [8:0-4-0,0-3-0], [9:0-0-4,Edge], [14:0-3-0,0-3-0], [17:0-0-12,0-1-4], [23:0-1-10,0-1-0]

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	0.84	Vert(LL)	0.18	15-30	>587	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.55	11-13	>653	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 206 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 6-7,7-8:2x4 SP No.1
BOT CHORD 2x4 SP No.1 *Except* 2-14:2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING
TOP CHORD 2-0-0 oc purlins (3-5-6 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
6-0-0 oc bracing: 2-15.

REACTIONS (size) 2=0-3-8, 9=0-3-8, 15=0-3-8
Max Horiz 2=143 (LC 12)
Max Uplift 2=-274 (LC 8), 9=-314 (LC 13),
15=-496 (LC 12)
Max Grav 2=394 (LC 25), 9=1314 (LC 2),
15=1981 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/24, 2-3=-101/446, 3-5=-366/998,
5-6=-1357/277, 6-7=-1775/382,
7-9=-2120/475, 9-10=0/40
BOT CHORD 2-15=-401/153, 13-15=-297/1588,
11-13=-139/1159, 9-11=-320/1855
WEBS 3-15=-757/420, 5-15=-2133/612,
7-11=-221/885, 8-11=-457/293,
6-14=-645/141, 5-14=-130/878,
6-13=-284/186, 7-13=-146/658

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.

- 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 2-3-7, Zone1 2-3-7 to 24-0-0, Zone2 24-0-0 to 29-6-3, Zone1 29-6-3 to 40-6-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (I) 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 274 lb uplift at joint 2, 496 lb uplift at joint 15 and 314 lb uplift at joint 9.
- 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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July 22,2026

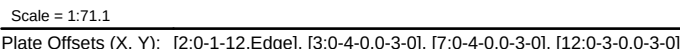
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LUMBER		3) Wind: ASCE 7-22; Vult=130mph (3-second gust)
TOP CHORD	2x4 SP No.2	Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat.
BOT CHORD	2x4 SP No.1 *Except* 2-12:2x4 SP No.2	II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone
WEBS	2x4 SP No.3	and C-C Zone3 1-6-0 to 2-4-13, Zone1 2-4-13 to 24-0-0,
BRACING		Zone2 24-0-0 to 29-6-3, Zone1 29-6-3 to 39-0-0 zone;
TOP CHORD	Structural wood sheathing directly applied or	porch left exposed; C-C for members and forces &
	2-2-0 oc purlins.	MWFRS for reactions shown; Lumber DOL=1.60 plate
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc	grip DOL=1.60
	bracing, Except:	4) Building Designer / Project engineer responsible for
	6-0-0 oc bracing: 2-13.	verifying applied roof live load shown covers rain loading
REACTIONS		requirements specific to the use of this truss component.
(size)	2=0-3-8, 8=0-3-8, 13=0-3-8	5) This truss has been designed for a 10.0 psf bottom chord
Max Horiz	2=140 (LC 12)	live load nonconcurrent with any other live loads.
Max Uplift	2=-204 (LC 8), 8=-275 (LC 13),	6) * This truss has been designed for a live load of 20.0psf
	13=-498 (LC 12)	on the bottom chord in all areas where a rectangle
Max Grav	2=252 (LC 25), 8=1222 (LC 2),	3-06-00 tall by 2-00-00 wide will fit between the bottom
	13=2042 (LC 2)	chord and any other members, with BCDL = 10.0psf.
FORCES		7) Provide mechanical connection (by others) of truss to
	(lb) - Maximum Compression/Maximum	bearing plate capable of withstanding 275 lb uplift at joint
	Tension	8, 204 lb uplift at joint 2 and 498 lb uplift at joint 13.
TOP CHORD	1-2=0/22 2-4=-329/1049 4-5=-1152/255	

LOAD CASE(S) Standard

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.

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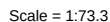


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[illegible]

- 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 2-3-7, Zone1 2-3-7 to 24-0-0, Zone2 24-0-0 to 29-6-3, Zone1 29-6-3 to 39-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TP1.
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) All plates are 2x4 (I) MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 2, 489 lb uplift at joint 16 and 276 lb uplift at joint 11.
- 11) 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

- 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.

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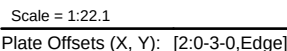


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LUMBER		6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 7) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface. 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 2 and 171 lb uplift at joint 10.
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	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS		
(size)	2=0-3-8, 10=0-1-8	
Max Horiz	2=90 (LC 8)	
Max Uplift	2=-182 (LC 8), 10=-171 (LC 8)	
Max Grav	2=324 (LC 1), 10=336 (LC 1)	
LOAD CASE(S)		Standard

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/22, 2-3=-197/108, 3-4=-30/0, 5-6=-78/117, 3-6=-97/61
BOT CHORD	2-5=-167/175
WEBS	3-10=-263/310

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 7.7-12 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
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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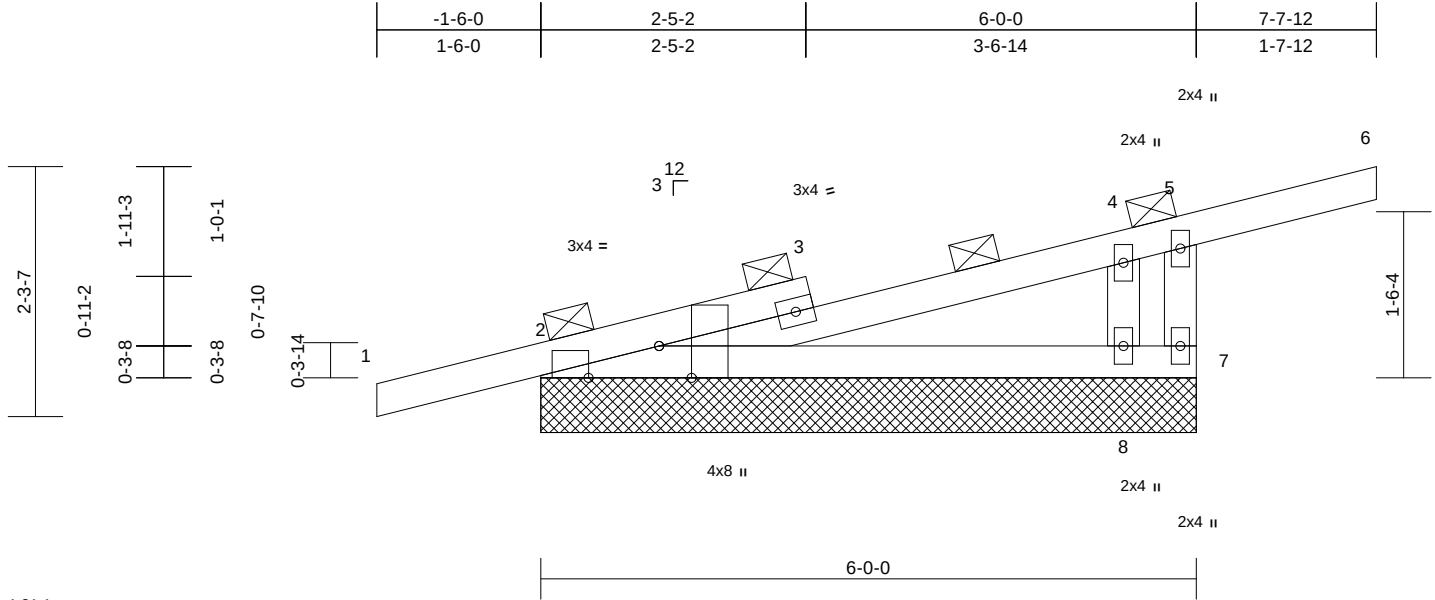
Job	Truss	Truss Type	Qty	Ply	
5554471	T05G	Monopitch Supported Gable	2	1	T41943011
Job Reference (optional)					

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

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Scale = 1:21.1

Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-7-12,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	0.35	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	2	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 28 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 (6-0-0 max.), except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	2=6-0-0, 7=6-0-0, 8=6-0-0
Max Horiz	2=79 (LC 8)
Max Uplift	2=-121 (LC 8), 7=-215 (LC 3), 8=-118 (LC 12)
Max Grav	2=276 (LC 1), 7=-6 (LC 15), 8=484 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/22, 2-4=-140/38, 4-5=-92/0, 5-6=-26/0, 5-7=-94/360
BOT CHORD	2-8=-4/19, 7-8=0/0
WEBS	4-8=-268/187

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 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 2, 215 lb uplift at joint 7, 118 lb uplift at joint 8 and 121 lb uplift at joint 2.
- 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 Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

July 22,2026

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

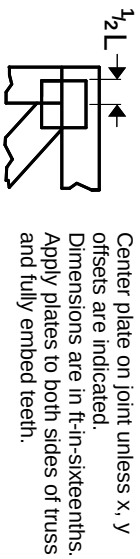
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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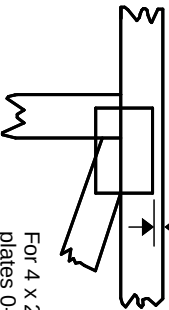
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Symbols

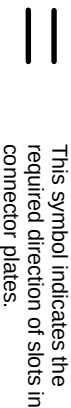
PLATE LOCATION AND ORIENTATION



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



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



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

PLATE SIZE

4 X 4

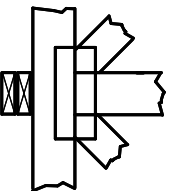
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

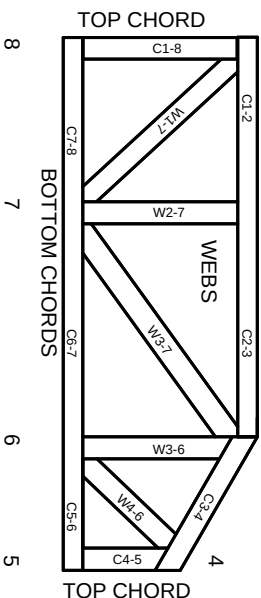
Industry Standards:

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

Numbering System



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. 1/12/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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