



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

RE: 4789439 - METZGER RES.

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: JOE METZGER Project Name: Metzger Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 329 SW William Young Lane, N/A
City: Lake City, State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: 55.0 psf

This package includes 21 individual, Truss Design Drawings and 0 Additional Drawings.

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

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T38467786	F01	9/9/25	15	T38467800	T05G	9/9/25
2	T38467787	F02	9/9/25	16	T38467801	T06	9/9/25
3	T38467788	PB01	9/9/25	17	T38467802	T07	9/9/25
4	T38467789	PB01G	9/9/25	18	T38467803	T07G	9/9/25
5	T38467790	PB02	9/9/25	19	T38467804	T08	9/9/25
6	T38467791	PB03	9/9/25	20	T38467805	T12	9/9/25
7	T38467792	PB03G	9/9/25	21	T38467806	T13	9/9/25
8	T38467793	T01	9/9/25				
9	T38467794	T01G	9/9/25				
10	T38467795	T02	9/9/25				
11	T38467796	T02G	9/9/25				
12	T38467797	T03G	9/9/25				
13	T38467798	T04	9/9/25				
14	T38467799	T05	9/9/25				

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

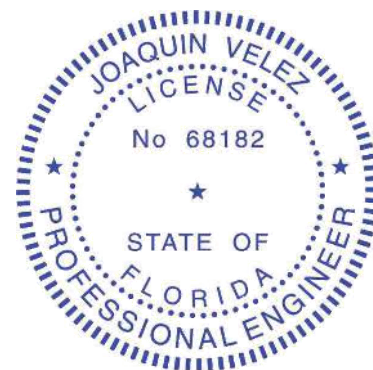
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The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: Velez, Joaquin

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

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



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

September 9, 2025

Velez, Joaquin

1 of 1

Job	Truss	Truss Type	Qty	Ply	METZGER RES.	T38467786
4789439	F01	FLOOR	9	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:40 2025 Page 1
ID:urBi2CDpEN7mWD6LziUSOYz8IDX-0uqvLdR?yd03xRtJ1tYNQAYZD?YjpP?gyF6yeqyfjnjn

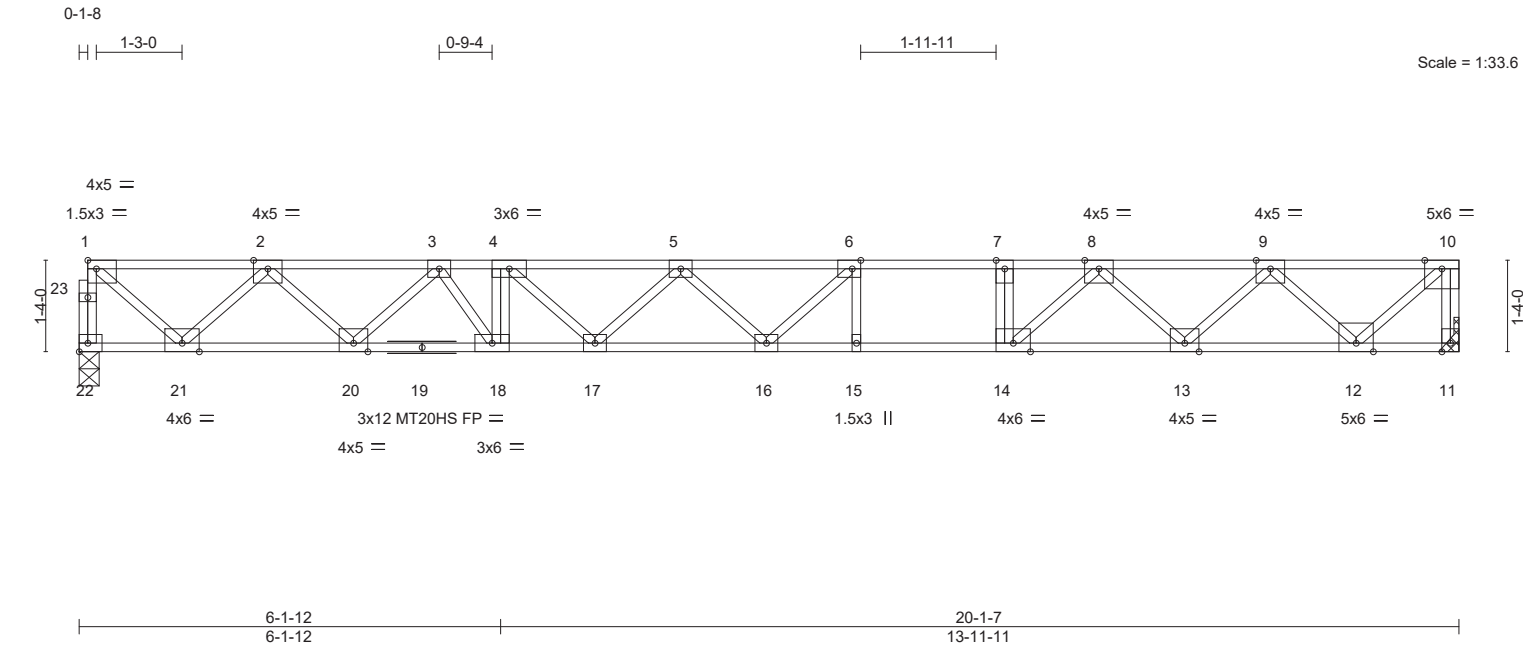


Plate Offsets (X,Y)--		[1:Edge,0-1-8], [6:0-1-8,Edge]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.40	15-16	>590	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.55	15-16	>430	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.07	11	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S						Weight: 108 lb FT = 20%F, 11%E		

LUMBER-		BRACING-	
TOP CHORD	2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 14-15.
WEBS	2x4 SP No.3(flat)		
REACTIONS.			
(size) 22=0-3-8, 11=Mechanical			
Max Grav 22=1087(LC 1), 11=1093(LC 1)			
FORCES.			
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD	1-22=-1081/0, 10-11=-1094/0, 1-2=-1118/0, 2-3=-2792/0, 3-4=-3806/0, 4-5=-4159/0, 5-6=-4444/0, 6-7=-4203/0, 7-8=-4203/0, 8-9=-2756/0, 9-10=-1129/0		
BOT CHORD	20-21=0/2109, 18-20=0/3450, 17-18=0/3806, 16-17=0/4485, 15-16=0/4203, 14-15=0/4203, 13-14=0/3461, 12-13=0/2107		
WEBS	4-18=-455/0, 1-21=0/1444, 2-21=-1378/0, 2-20=0/950, 3-20=-916/0, 3-18=0/598, 10-12=0/1502, 4-17=0/470, 9-12=-1361/0, 5-17=-453/0, 9-13=0/902, 8-13=-981/0, 6-16=-217/552, 8-14=0/1157, 7-14=-479/0, 6-15=-356/11		

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.

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

Joaquin Velez PE No.68182
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Chesterfield, MO 63017
Date:
September 9,2025

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

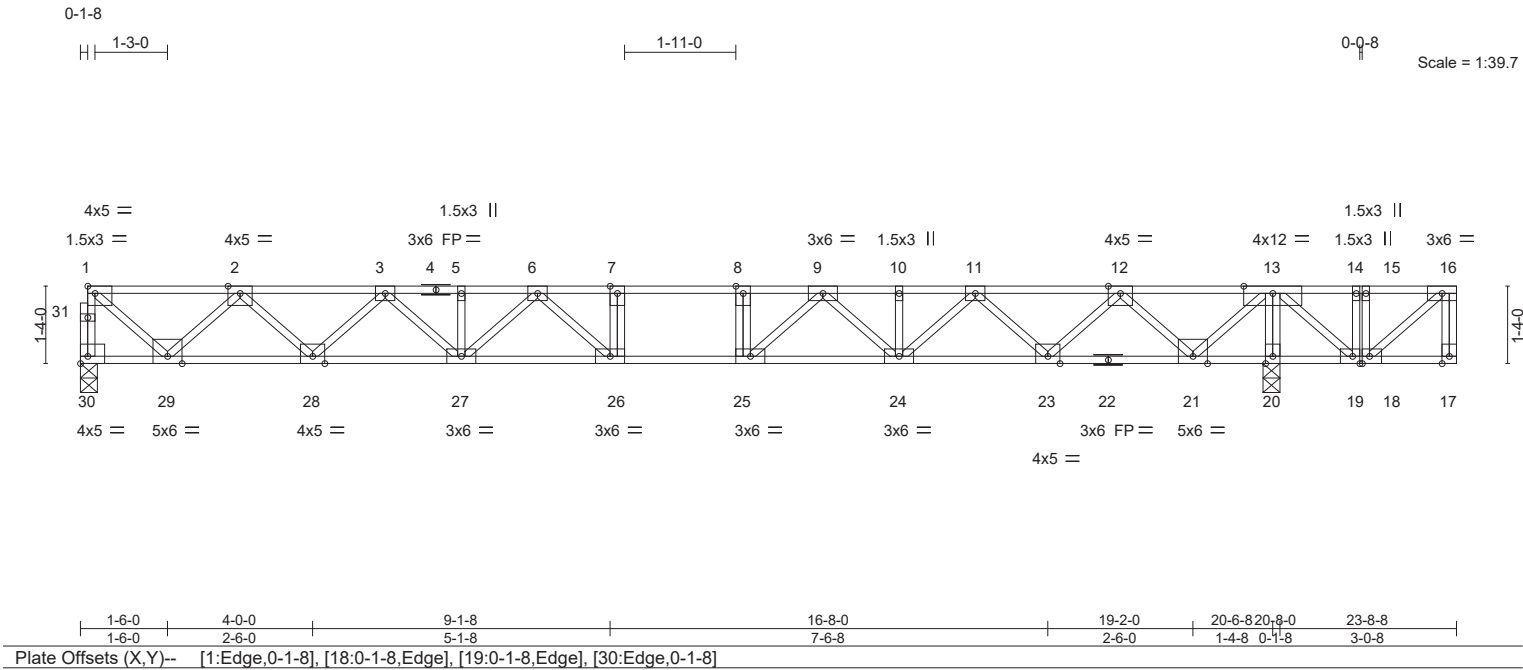
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	METZGER RES.	T38467787
4789439	F02	FLOOR	2	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:40 2025 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.32 25-26 >763 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.44 25-26 >561 240				
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.07 20 n/a n/a				
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							
								Weight: 132 lb		FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 20-21,19-20,18-19.
WEBS	2x4 SP No.3(flat)		
REACTIONS. (size) 30=0-3-8, 20=0-3-8 Max Grav 30=1110(LC 3), 20=1482(LC 1)			
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD	1-30=-1105/0, 1-2=-1144/0, 2-3=-2868/0, 3-5=-4057/0, 5-6=-4057/0, 6-7=-4646/0, 7-8=-4646/0, 8-9=-4646/0, 9-10=-4014/0, 10-11=-4014/0, 11-12=-2795/0, 12-13=-1054/69		
BOT CHORD	28-29=0/2159, 27-28=0/3551, 26-27=0/4415, 25-26=0/4646, 24-25=0/4388, 23-24=0/3496, 21-23=0/2065, 20-21=-403/0, 19-20=-403/0		
WEBS	13-20=-1457/0, 1-29=0/1478, 13-21=0/1518, 2-29=-1411/0, 12-21=-1430/0, 2-28=0/986, 12-23=0/1043, 3-28=-950/0, 11-23=-1001/0, 3-27=0/689, 11-24=0/728, 6-27=-488/0, 9-24=-537/0, 6-26=-187/681, 9-25=-101/767, 7-26=-330/31, 8-25=-367/0, 13-19=0/407		

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

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

Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
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Date:
September 9,2025

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MiTek®

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Job	Truss	Truss Type	Qty	Ply	METZGER RES.	T38467788
4789439	PB01	Piggyback	17	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:41 2025 Page 1
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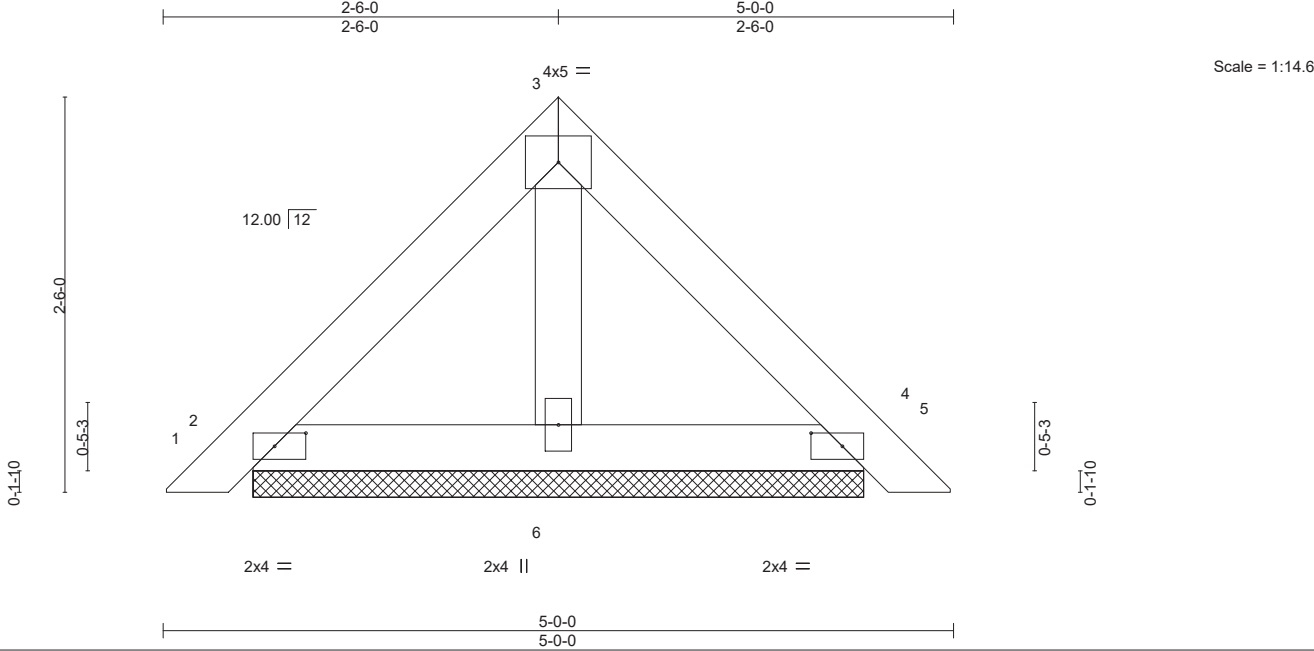


Plate Offsets (X,Y)--		[2:0-2-6,0-1-0], [4:0-2-6,0-1-0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.11	Vert(LL) 0.00 4 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.04	Vert(CT) 0.00 5 n/r 120		
BCLL 0.0 **	Rep Stress Incr YES	WB 0.01	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-P		Weight: 19 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=3-10-6, 4=3-10-6, 6=3-10-6
Max Horz 2=-56(LC 10)
Max Uplift 2=-37(LC 13), 4=-43(LC 13), 6=-5(LC 12)
Max Grav 2=116(LC 1), 4=116(LC 1), 6=120(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-10 to 2-6-0, Zone1 2-6-0 to 4-9-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 2, 43 lb uplift at joint 4 and 5 lb uplift at joint 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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Date:

September 9,2025

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Job	Truss	Truss Type	Qty	Ply	METZGER RES.	T38467789
4789439	PB01G	PIGGYBACK	2	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:42 2025 Page 1
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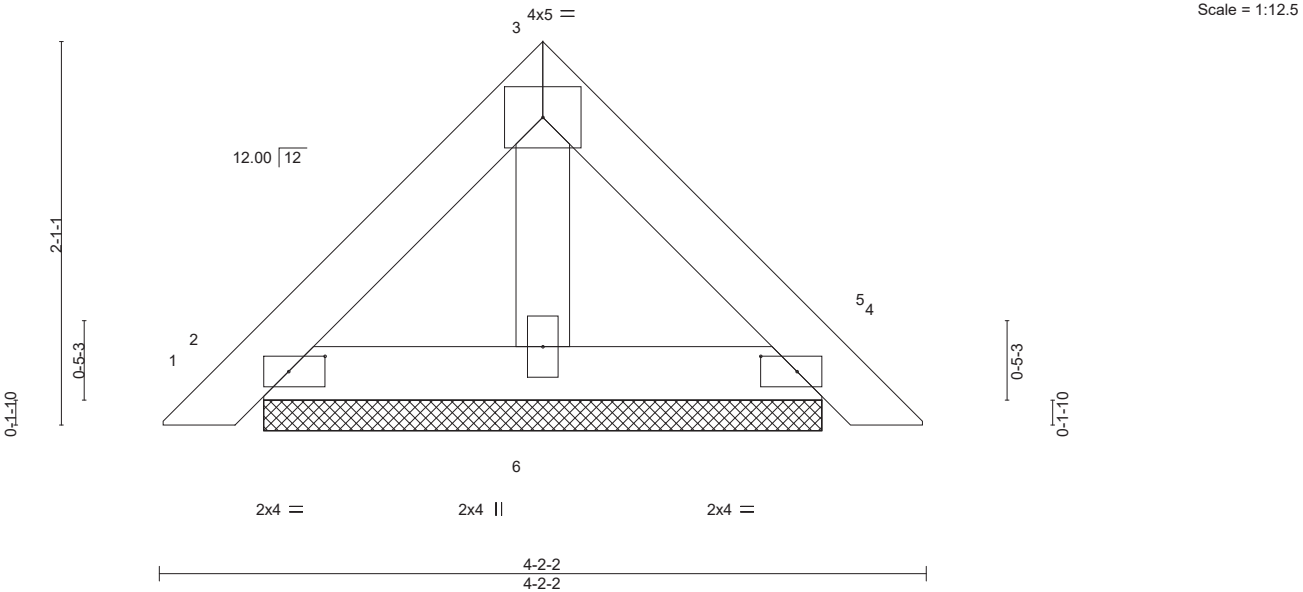


Plate Offsets (X,Y)--		[2:0-2-6,0-1-0], [4:0-2-6,0-1-0]							
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.07	Vert(LL)	0.00	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	0.00		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-P				Weight: 15 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-2-2 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3		

REACTIONS. (size) 2=3-0-8, 4=3-0-8, 6=3-0-8
Max Horz 2=-46(LC 10)
Max Uplift 2=-31(LC 12), 4=-36(LC 13), 6=-3(LC 12)
Max Grav 2=96(LC 1), 4=96(LC 1), 6=94(LC 3)

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

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-10 to 2-1-1, Zone1 2-1-1 to 3-11-8 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.
 - Gable requires continuous bottom chord bearing.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2, 36 lb uplift at joint 4 and 3 lb uplift at joint 6.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Chesterfield, MO 63017
Date:
September 9,2025

Job	Truss	Truss Type	Qty	Ply	METZGER RES.	T38467790
4789439	PB02	PIGGYBACK	2	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:42 2025 Page 1
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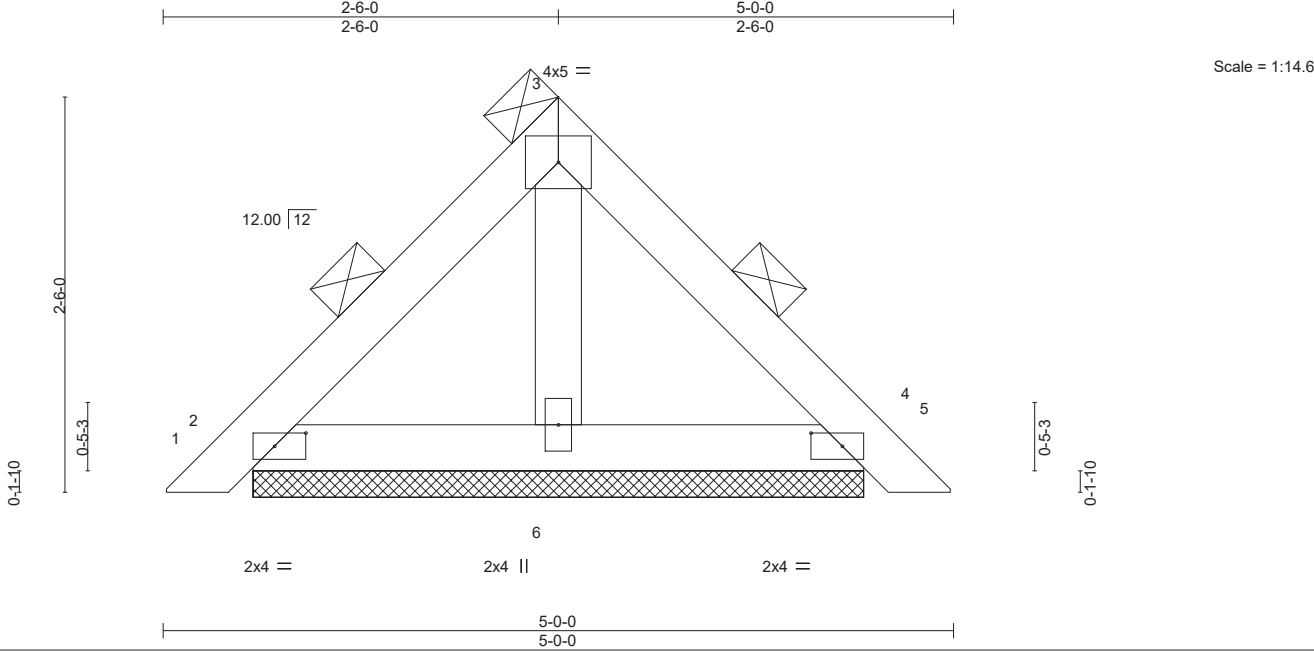


Plate Offsets (X,Y)--		[2:0-2-6,0-1-0], [4:0-2-6,0-1-0]	
LOADING (psf)	SPACING-	4-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.12
TCDL 10.0	Lumber DOL	1.25	BC 0.04
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.01
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-P
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.00 4 n/r 120
			Vert(CT) 0.00 5 n/r 120
			Horz(CT) 0.00 4 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 37 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins
BOT CHORD 2x4 SP No.2	(Switched from sheeted: Spacing > 2-8-0).
OTHERS 2x4 SP No.3	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	(size) 2=3-10-6, 4=3-10-6, 6=3-10-6
	Max Horz 2=-113(LC 10)
	Max Uplift 2=-75(LC 13), 4=-85(LC 13), 6=-10(LC 12)
	Max Grav 2=232(LC 1), 4=232(LC 1), 6=240(LC 3)

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

- NOTES-
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-10 to 2-6-0, Zone1 2-6-0 to 4-9-6 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.
 - Gable requires continuous bottom chord bearing.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 2, 85 lb uplift at joint 4 and 10 lb uplift at joint 6.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - 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
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

September 9,2025

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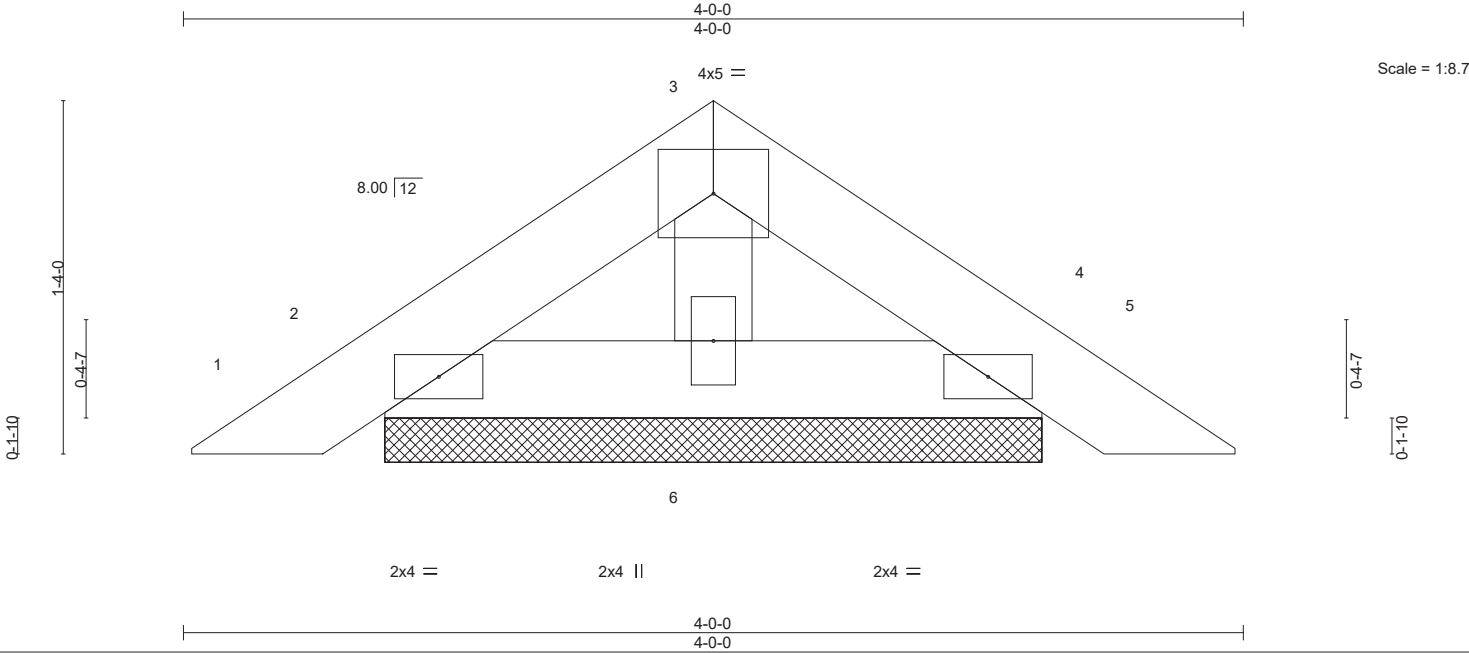
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Job	Truss	Truss Type	Qty	Ply	METZGER RES.	T38467791
4789439	PB03	Piggyback	11	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:43 2025 Page 1
ID:urBi2CDpEN7mWD6LziUSOYz8IDX-RTV2zfUuFYPeovcui?642oAEqCn20xn7eDKcF9yfhjk



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.03	Vert(LL) 0.00	4	n/r	120		MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.02	Vert(CT) 0.00	4	n/r	120			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT) 0.00	4	n/a	n/a			
BCDL 10.0	Code FBC2023/TPI2014	Matrix-P						Weight: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=2-5-12, 4=2-5-12, 6=2-5-12
Max Horz 2=-28(LC 10)
Max Uplift 2=-33(LC 12), 4=-36(LC 13), 6=-5(LC 12)
Max Grav 2=87(LC 1), 4=87(LC 1), 6=83(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 2, 36 lb uplift at joint 4 and 5 lb uplift at joint 6.
 - 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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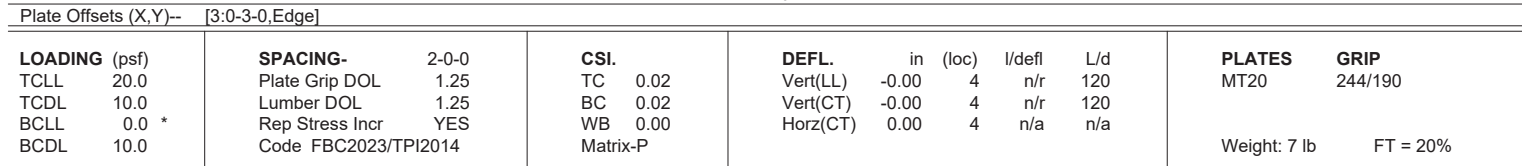
September 9,2025

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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:43 2025 Page 1
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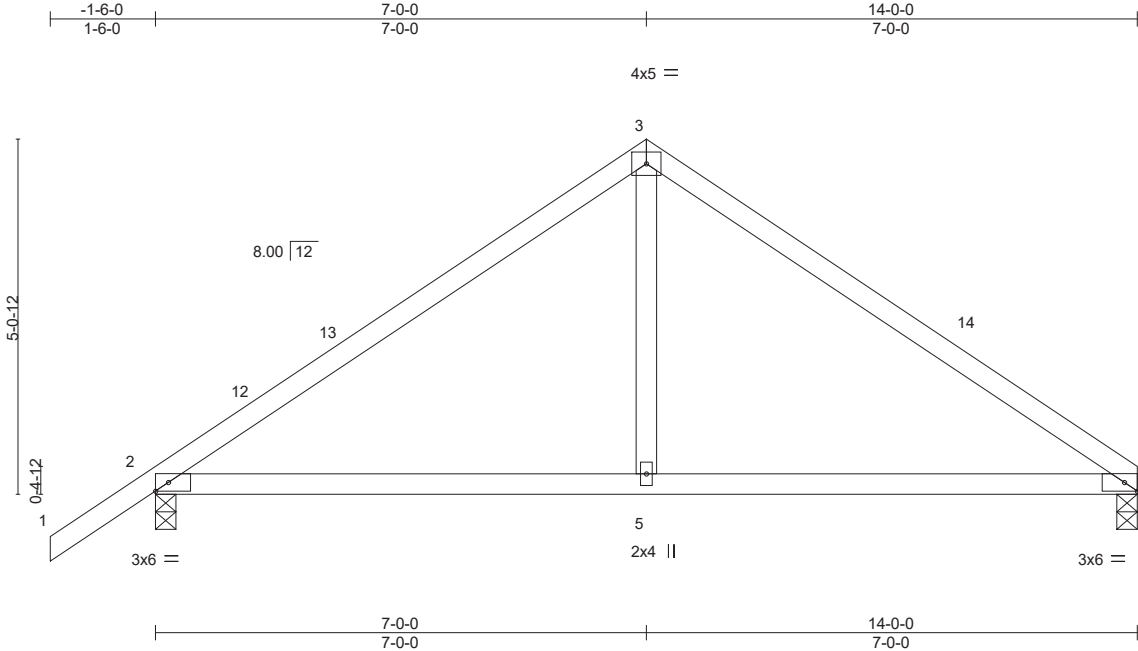
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Job	Truss	Truss Type	Qty	Ply	METZGER RES.	T38467793
4789439	T01	Common	2	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:44 2025 Page 1
ID:urBi2CDpEN7mWD6LziUSOYz8IDX-vf3QB?VW0sXVQ2B4GjdJa0iFFc?MINBGtt49ncyfhjj



Scale = 1:32.9

Plate Offsets (X,Y)-- [4:0-2-3,Edge]		7'-0-0		14'-0-0	
LOADING (psf)		SPACING-		CSI.	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62
TCDL	10.0	Lumber DOL	1.25	BC	0.52
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS	
DEFL.		in (loc)		I/defl	
Vert(LL)	0.10	5-8	>999	L/d	240
Vert(CT)	-0.15	5-8	>999	L/d	180
Horz(CT)	0.01	2	n/a	L/d	n/a
PLATES		GRIP		Weight: 56 lb	
MT20		244/190		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-6-13 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 4=0-3-8, 2=0-3-8
Max Horz 2=132(LC 9)
Max Uplift 4=126(LC 13), 2=167(LC 12)
Max Grav 4=555(LC 1), 2=655(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-682/197, 3-4=-680/211
BOT CHORD 2-5=-70/477, 4-5=-70/477
WEBS 3-5=-16/333

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-0-0, Zone2 7-0-0 to 11-2-15, Zone1 11-2-15 to 14-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 4 and 167 lb uplift at joint 2.

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Chesterfield, MO 63017
Date:

September 9,2025

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Job	Truss	Truss Type	Qty	Ply	METZGER RES.	T38467794
4789439	T01G	Common Supported Gable	1	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:44 2025 Page 1
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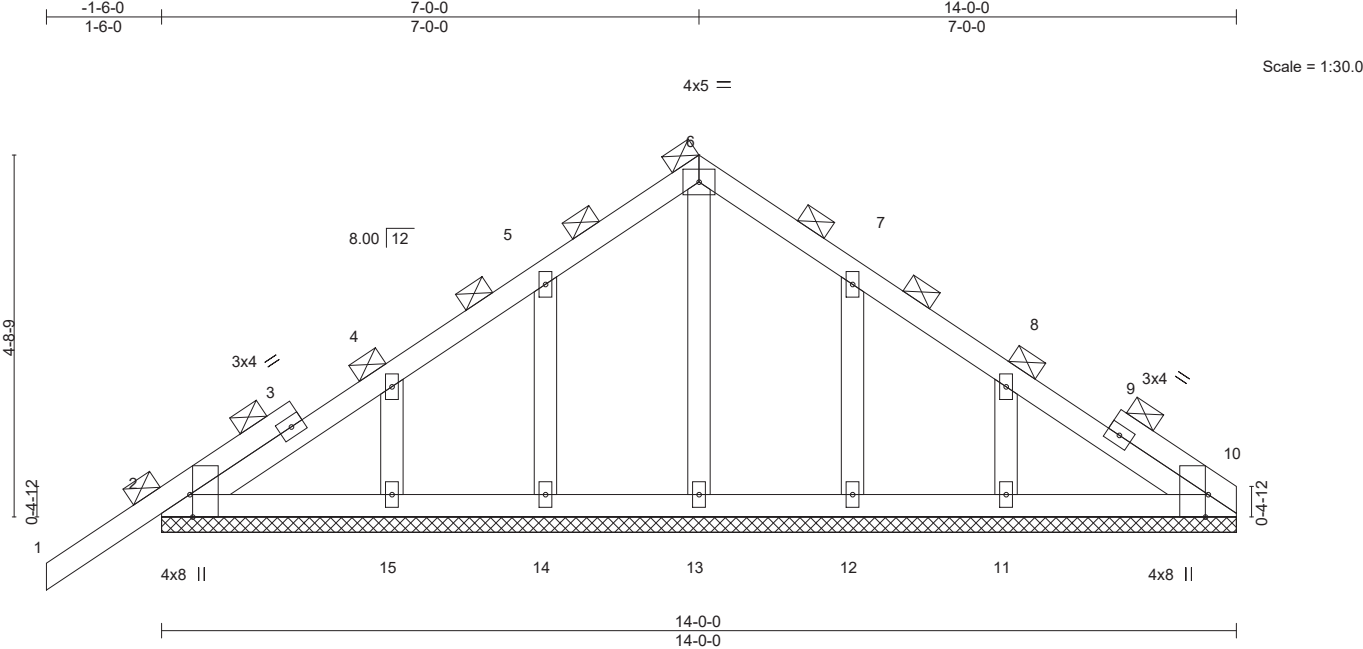


Plate Offsets (X,Y)--		[2:0-3-8,Edge], [10:0-3-8,Edge]							
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	-0.00 1 n/r	120	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.00 1 n/r	120	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00 10 n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S					Weight: 72 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 14-0-0.
(lb) - Max Horz 2=124(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 14, 15, 12 except 11=108(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 13, 14, 15, 12, 11

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

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 14, 15, 12 except (jt=lb) 11=108.
 - 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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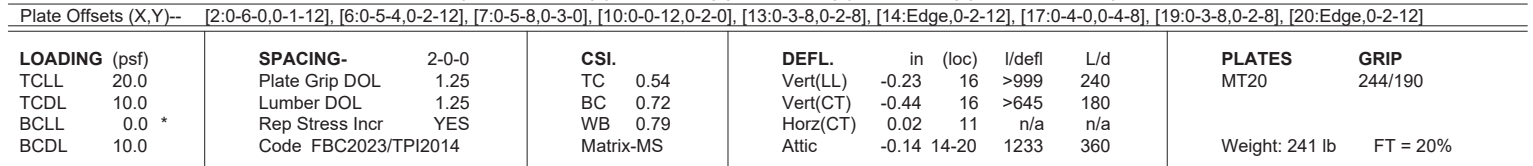
Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:45 2025 Page 1
ID:urBi2CDpEN7mWD6LzlUSOYz8IDX-NsdoOLV8nAfM2CmGqQ8Y7DFRl0lVUif8P6XpjK2yfHji
16-4-14
9-5-8
16-4-14
14-5-8 15-9-14 19-1-4 23-11-0
-1-6-8 4-9-12 7-6-2 8-1-2 14-5-8 15-9-14 19-1-4 23-11-0
1-6-8 4-9-12 2-8-6 0-7-0 5-0-0 1-4-6 2-8-6 4-9-12
1-4-6
6x8 0-7-0
Scale = 1:67.8



REACTIONS. (size) 22=0-3-0, 11=0-3-0
 Max Horz 22=325(LC 9)
 Max Uplift 22=-14(LC 12)
 Max Grav 22=1739(LC 2), 11=1643(LC 2)

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

TOP CHORD	2-4=-1616/21, 4-5=-981/151, 6-7=0/494, 7-8=-176/264, 8-9=-982/153, 9-10=-1601/17, 2-22=-1709/17, 10-11=-1622/5
BOT CHORD	21-22=-325/456, 19-21=-129/1101, 17-19=0/3263, 13-17=0/3241, 12-13=0/973, 18-20=-2367/0, 16-18=-3203/0, 15-16=-3203/0, 14-15=-2388/0
WEBS	4-20=0/858, 9-14=0/828, 5-23=-1385/153, 23-24=-1379/154, 8-24=-1410/158, 2-21=-63/893, 10-12=-61/921, 16-17=-397/0, 18-19=-690/0, 13-15=-683/0, 19-20=0/2479, 17-18=-107/945, 15-17=-124/918, 13-14=0/2487

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-8 to 1-5-8, Zone1 1-5-8 to 9-5-8, Zone2 9-5-8 to 13-8-7, Zone1 13-8-7 to 23-8-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-23, 23-24, 8-24; Wall dead load (5.0psf) on member(s).4-20, 9-14

8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20, 16-18, 15-16, 14-15

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22.

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

11) Attic room checked for L/360 deflection.

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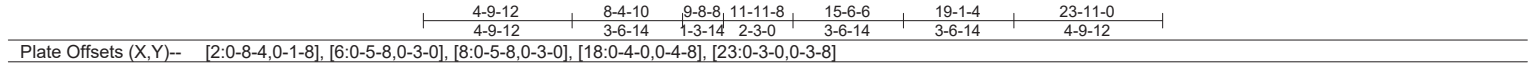
1-6-8 4-9-12 7-6-2 8-6-1 11-11-8 14-0-9 15-4-15 19-1-4 23-11-0 25-5-8

1-6-8 4-9-12 2-8-6 0-11-15 2-1-1 2-1-1 1-4-6 2-8-6 4-9-12 1-6-8

9-10-7 16-4-14 1-4-6 0-11-15

6x8 1-4-6 6x8

Scale = 1:74.5



LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2 *Except* 2-6: 2x6 SP 2400F 2.0E or 2x6 SP M 26, 1-3: 2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD	2x6 SP 2400F 2.0E or 2x6 SP M 26 *Except* 15-22: 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 19-21,18-19. 4-5-0 oc bracing: 15-22
WEBS	2x4 SP No.3 *Except* 2-24,11-12: 2x6 SP No.2	JOINTS	1 Brace at Jt(s): 2, 6, 8, 11, 25, 26, 34
OTHERS	2x4 SP No.3		

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-979/177, 4-5=-727/192, 5-6=-271/152, 9-10=-710/159, 10-11=-958/7, 2-24=-1022/137, 11-12=-901/0
BOT CHORD	23-24=-259/304, 21-23=-60/428, 19-21=-933/231, 18-19=-933/231, 14-18=0/1519, 13-14=0/731, 20-22=-115/1361, 17-20=-256/545, 16-17=-256/545, 15-16=-1128/0
WEBS	22-23=-367/78, 4-22=-271/326, 13-15=-329/99, 10-15=-74/287, 5-25=-775/282, 25-33=-768/282, 26-33=-768/282, 9-26=-679/209, 2-23=-102/569, 11-13=-60/422, 17-18=-420/0, 20-21=-743/0, 21-22=-1249/112, 18-20=0/958, 16-18=-1613/141, 14-15=0/988

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NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDF=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-8 to 1-5-8, Zone1 1-5-8 to 9-10-7, Zone3 9-10-7 to 14-0-9, Zone1 14-0-9 to 23-8-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable 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 3-6-0 tall by 2-0-0 wide could fit between the bottom chord and any other members.

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

Date: September 9, 2025

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Job	Truss	Truss Type	Qty	Ply	METZGER RES.	T38467796
4789439	T02G	GABLE	1	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:46 2025 Page 2
ID:urBi2CDpEN7mWD6LziUSOYz8IDX-r2BAchWmYTnDfMLTN8fnfRnbgQcAD5eZKBZGsUyfhjh

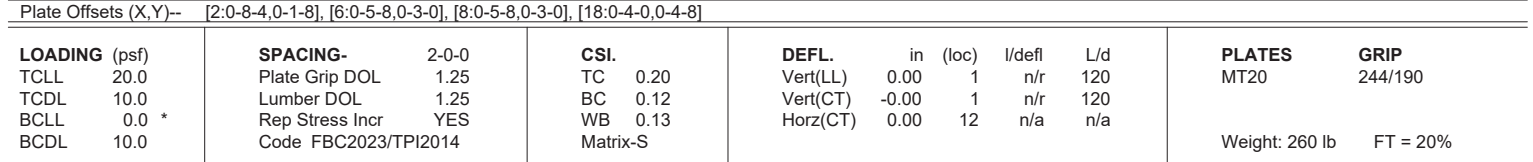
- NOTES-**
- 10) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-25, 25-33, 26-33, 9-26; Wall dead load (5.0psf) on member(s).4-22, 10-15
 - 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-22, 17-20, 16-17, 15-16
 - 12) Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 19 except (jt=lb) 24=130, 23=814, 22=215.
 - 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 15) Attic room checked for L/360 deflection.

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Builders FirstSource (Lake City, FL) Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:47 2025 Page 1
ID:urBi2CDpEN7mWD6LziUSOYz8lDX-JE1Yp0XOJnv4HWvfxrA0CEks9p7OyjriZqlqOwyfhjg
16-4-14
9-10-7
-1-6-8 4-9-12 7-6-2 8-6-1 11-11-8 14-0-9 15-4-15 19-1-4 23-11-0 25-5-8
1-6-8 4-9-12 2-8-6 0-11-15 2-1-1 2-1-1 1-4-6 2-8-6 4-9-12 1-6-8
6x8 1-4-6 0-11-15
6x8
Scale = 1:72.2



LUMBER-		BRACING-	
TOP CHORD	2x6 SP 2400F 2.0E or 2x6 SP M 26 *Except* 6-8: 2x6 SP No.2, 1-3: 2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD	2x6 SP 2400F 2.0E or 2x6 SP M 26 *Except* 15-21: 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 15-21
WEBS	2x4 SP No.3 *Except* 2-23,11-12: 2x6 SP No.2	JOINTS	1 Brace at Jt(s): 2, 6, 8, 11, 24, 25, 32
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 23-11-0.
(lb) - Max Horz 23=313(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 23, 12 except 22=-129(LC 1),
21=-239(LC 12), 13=-302(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 22 except 23=735(LC 1),
21=548(LC 20), 13=494(LC 21), 12=608(LC 1), 18=283(LC 3), 20=295(LC 3),
14=302(LC 3)

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

TOP CHORD 2-4=-575/138, 4-5=-598/143, 5-6=-346/85, 6-7=-253/103, 7-8=-253/103, 8-9=-343/83,
9-10=-598/146, 10-11=-585/138, 2-23=-686/100, 11-12=-562/100

BOT CHORD 22-23=-283/285, 20-22=-114/343, 18-20=-96/299, 14-18=-89/303, 13-14=-79/401

WEBS 4-21=-431/302, 13-15=-443/270, 10-15=-435/324, 2-22=-84/387, 11-13=-99/345

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-8 to 1-5-8, Zone1 1-5-8 to 9-10-7, Zone3 9-10-7 to 14-0-9, Zone1 14-0-9 to 23-8-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-24, 24-33, 25-33, 9-25: Wall dead load (5.0psf) on member(s). 4-21, 10-15

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Date:

September 9, 2025

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	METZGER RES.	T38467797
4789439	T03G	GABLE	1	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:47 2025 Page 2
ID:urBi2CDpEN7mWD6LziUSOYz8IDX-JEIYp0XOJnv4HWvfxrA0CeKs9p7OyjriZqlqOwyfhjg

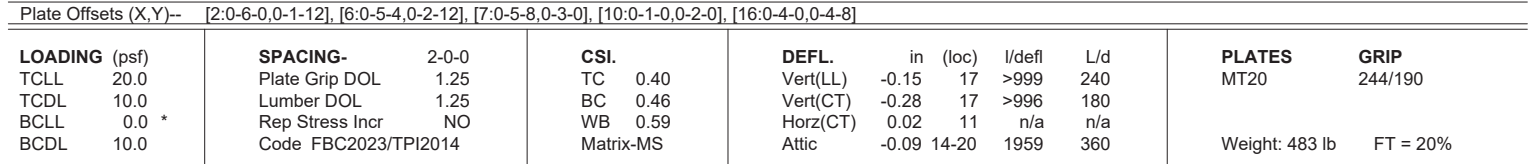
- NOTES-**
- 12) Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 12 except (jt=lb) 22=129, 21=239, 13=302.
 - 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 15) Attic room checked for L/360 deflection.

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ID:urBi2CDpEN7mWD6LziUSOYz8IDX-nQJx0MY0451xvgUrVzhFist_mdNLh20soU2NxnYhfj
16-4-14
9-5-8
14-5-8 15-9-14 19-1-4 23-11-0
-1-6-8 4-9-12 7-6-2 8-1-2 14-5-8 15-9-14 19-1-4 23-11-0
1-6-8 4-9-12 2-8-6 0-7-0 5-0-0 1-4-6 2-8-6 4-9-12
1-4-6
6x8 0-7-0
Scale = 1:67.8



REACTIONS. (size) 22=0-3-0, 11=0-3-0
 Max Horz 22=324(LC 5)
 Max Uplift 22=-172(LC 8), 11=-129(LC 9)
 Max Grav 22=3712(LC 16), 11=3606(LC 17)

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-23, 23-24, 8-24; Wall dead load (5.0psf) on member(s). 4-20, 9-14
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-20, 17-19, 15-17, 14-15

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	METZGER RES.
4789439	T04	ATTIC	2	2	T38467798

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:48 2025 Page 2
ID:urBi2CDpEN7mWD6LziUSOYz8IDX-nQJx0MY0451xvgUrVZhF1st_mDNLh20soU2NxNyfhjf

NOTES-

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 22=172, 11=129.
- 12) Girder carries tie-in span(s): 6-0-0 from 0-0-0 to 23-11-0
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-60, 2-4=-160(B=-100), 4-5=-170(B=-100), 5-6=-160(B=-100), 6-7=-160(B=-100), 7-8=-160(B=-100), 8-9=-170(B=-100), 9-10=-160(B=-100), 11-22=-20, 14-20=-40, 5-8=-10
Drag: 4-20=-10, 9-14=-10

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Job	Truss	Truss Type	Qty	Ply	METZGER RES.	T38467799
4789439	T05	Piggyback Base	5	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:49 2025 Page 1
ID:urBi2CDpEN7mWD6LziUSOYz8lDX-FdtJEIYfqO9oWq323GCUH3P0JdjcQas?08nwTpyfhje

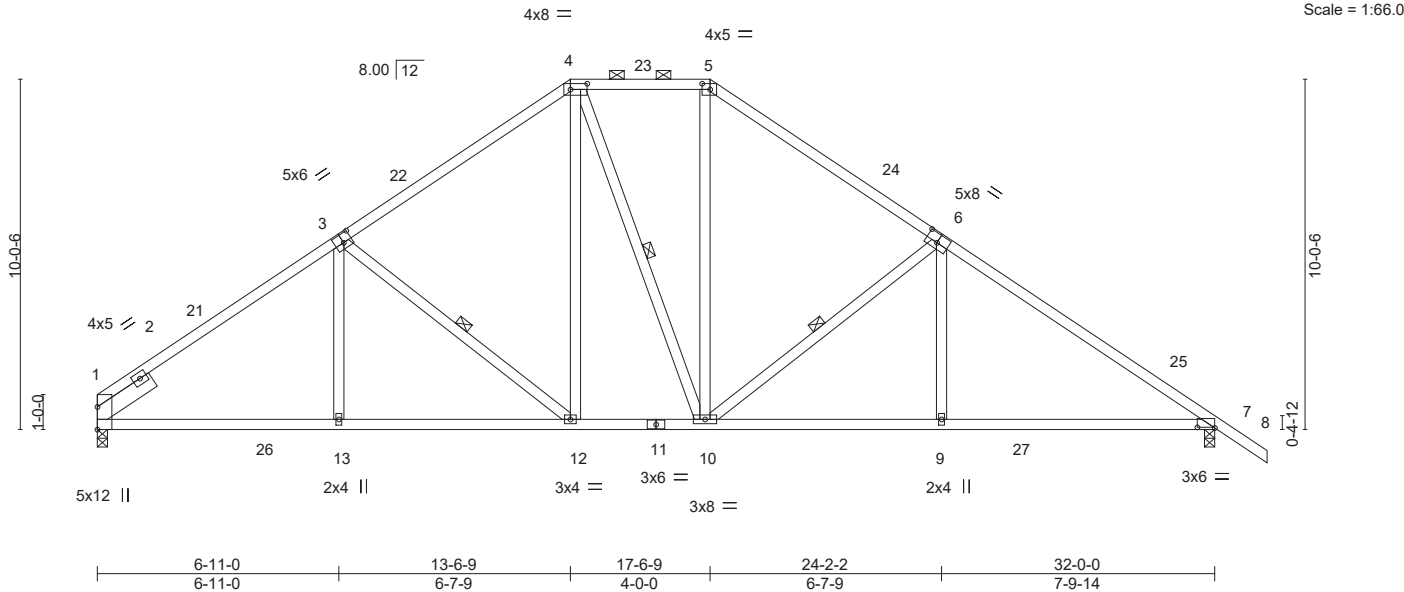


Plate Offsets (X,Y)--		[3:0-3-0,0-3-0], [4:0-5-12,0-2-0], [5:0-2-12,0-2-0], [6:0-4-0,0-3-0], [7:0-6-0,0-0-3]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.99	Vert(LL)	-0.13 12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.25 12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.05 7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 194 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31	2-0-0 oc purlins (5-4-12 max.): 4-5.
WEBS 2x4 SP No.3	Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x6 SP No.2 1-11-8	1 Row at midpt 3-12, 4-10, 6-10

REACTIONS. (size) 1=0-3-8, 7=0-3-8
Max Horz 1=-254(LC 8)
Max Uplift 1=-292(LC 12), 7=-338(LC 13)
Max Grav 1=1408(LC 19), 7=1504(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1848/400, 3-4=-1449/367, 4-5=-1138/372, 5-6=-1470/376, 6-7=-2064/429
BOT CHORD 1-13=-350/1613, 12-13=-350/1611, 10-12=-141/1197, 9-10=-210/1637, 7-9=-209/1640
WEBS 3-13=0/263, 3-12=-538/269, 4-12=-134/537, 5-10=-135/572, 6-10=-764/312, 6-9=0/371

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-2-6, Zone1 3-2-6 to 13-6-9, Zone3 13-6-9 to 17-6-9, Zone2 17-6-9 to 22-0-14, Zone1 22-0-14 to 33-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) 1=292, 7=338.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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Date:

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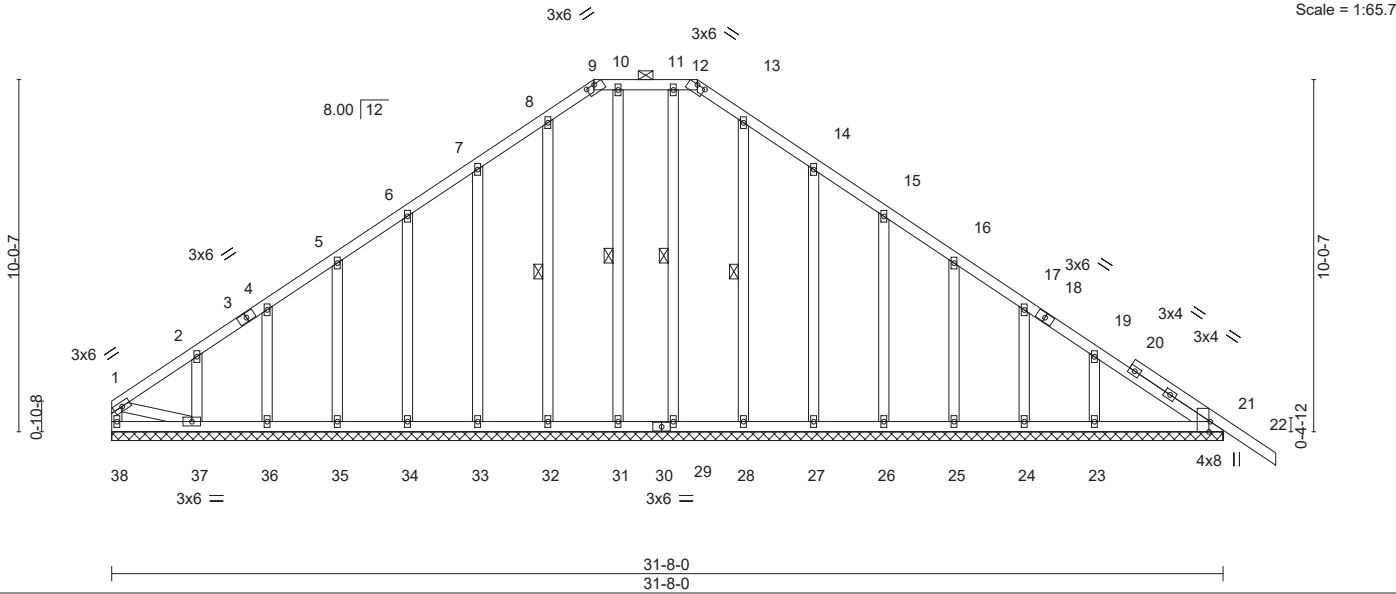
Job	Truss	Truss Type	Qty	Ply	METZGER RES.	T38467800
4789439	T05G	GABLE	1	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:49 2025 Page 1

ID:urBi2CDpEN7mWD6LziUSOYz8lDX-FdtJEiYfqO9oWq323GCUH3PDUdpLQcA?08nwTpyfhje

13-8-14	16-8-4	31-8-0	33-2-0
13-8-14	2-11-6	14-11-12	1-6-0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	-0.00 22 n/r 120	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.01 22 n/r 120				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01 21 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							
								Weight: 236 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 9-12.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 8-32, 10-31, 11-29, 13-28
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 31-8-0.
(lb) - Max Horz 38=-254(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 38, 36, 35, 34, 33, 32, 31, 29, 28, 27, 26, 25, 24, 23, 21 except 37=-161(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 38, 36, 35, 34, 33, 32, 31, 29, 28, 27, 26, 25, 24, 37 except 23=255(LC 20), 21=251(LC 1)

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

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 38, 36, 35, 34, 33, 32, 31, 29, 28, 27, 26, 25, 24, 23, 21 except (jt=lb) 37=161.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

September 9,2025

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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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	METZGER RES.	T38467801
4789439	T06	Piggyback Base	6	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:50 2025 Page 1

ID:urBi2CDpEN7mWD6LziUSOYz8lDX-kpQhR2ZHbiHf8zeEcZkjqHyB113r9119FoXU?Fyfthjd

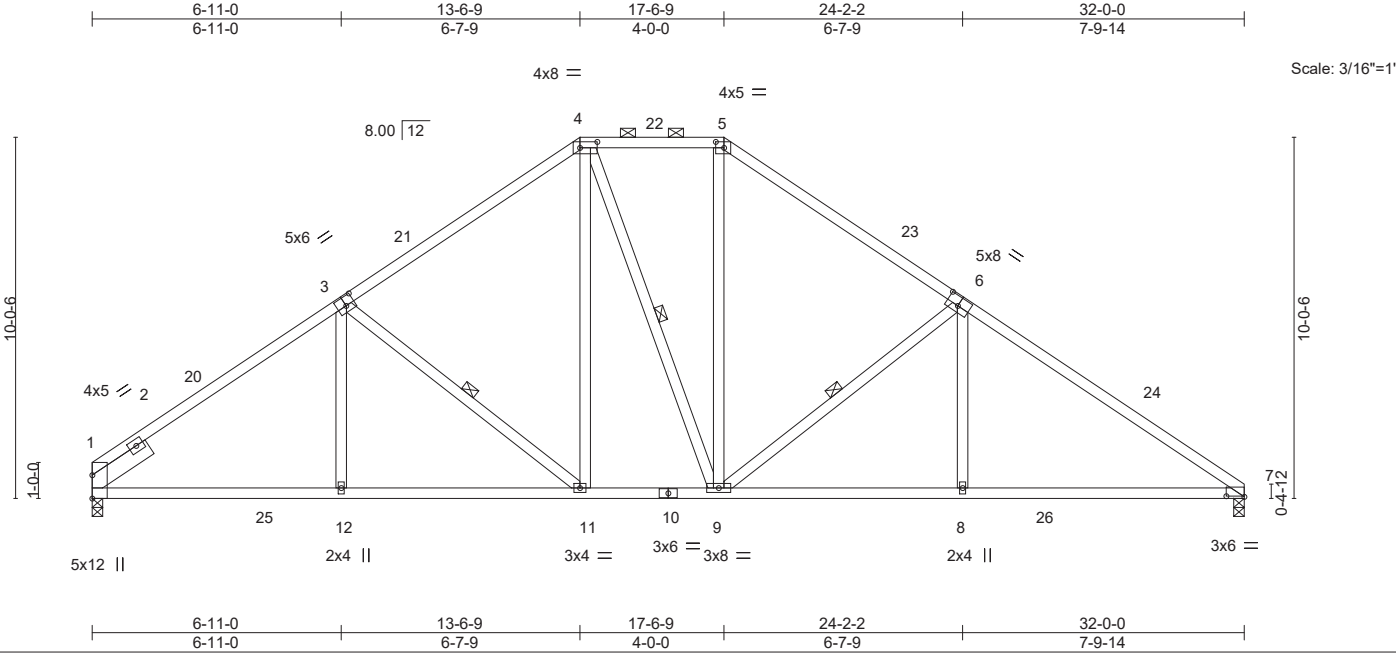


Plate Offsets (X,Y)--		[3:0-3-0,0-3-0], [4:0-5-12,0-2-0], [5:0-2-12,0-2-0], [6:0-4-0,0-3-0], [7:0-6-0,0-0-3]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.25		TC 0.99		Vert(LL)	-0.13 8-19	>999	240	MT20	244/190
TCDL 10.0		Lumber DOL 1.25		BC 0.45		Vert(CT)	-0.25 8-19	>999	180		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.30		Horz(CT)	0.05 7	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS						Weight: 191 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31	2-0-0 oc purlins (5-4-11 max.): 4-5.
WEBS 2x4 SP No.3	Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x6 SP No.2 1-11-8	1 Row at midpt 3-11, 4-9, 6-9

REACTIONS. (size) 1=0-3-8, 7=0-3-8
Max Horz 1=-237(LC 8)
Max Uplift 1=-292(LC 12), 7=-300(LC 13)
Max Grav 1=1409(LC 19), 7=1418(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1851/400, 3-4=-1452/368, 4-5=-1141/374, 5-6=-1473/378, 6-7=-2075/438
BOT CHORD 1-12=-367/1602, 11-12=-367/1600, 9-11=-158/1187, 8-9=-251/1648, 7-8=-251/1651
WEBS 3-12=0/263, 3-11=-538/269, 4-11=-134/538, 5-9=-136/574, 6-9=-777/320, 6-8=0/374

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-2-6, Zone1 3-2-6 to 13-6-9, Zone3 13-6-9 to 17-6-9, Zone2 17-6-9 to 22-0-14, Zone1 22-0-14 to 32-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) 1=292, 7=300.
 - 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:

September 9,2025

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Job	Truss	Truss Type	Qty	Ply	METZGER RES.	T38467803
4789439	T07G	Common Supported Gable	1	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:51 2025 Page 1
ID:urBi2CDpEN7mWD6LziUSOYz8IDX-C?_3fOavM0PWm7DQAhFyMUVZfRWfuYGIUSG1Xiyfhjc

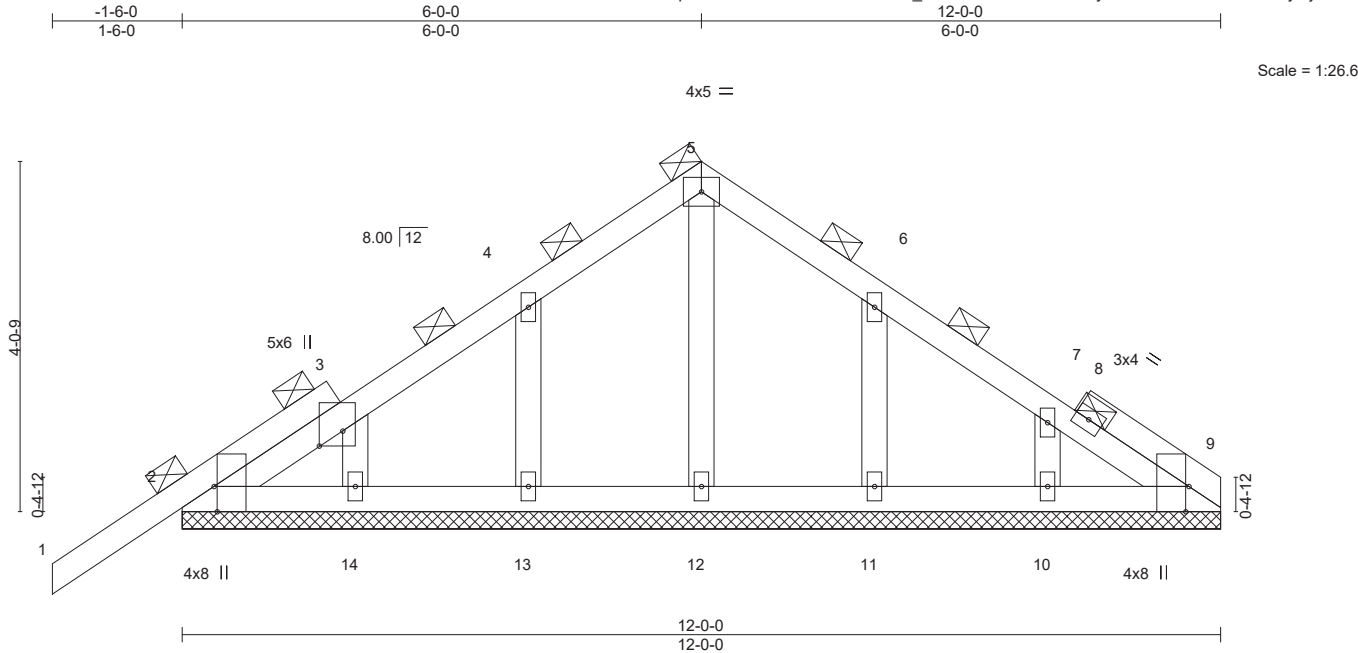


Plate Offsets (X,Y)--		[2:0-3-8,Edge], [3:0-2-1,0-3-4], [9:0-3-8,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.17
TCDL 10.0	Lumber DOL	1.25	BC 0.03
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.00 1 n/r 120
			Vert(CT) -0.00 1 n/r 120
			Horz(CT) 0.00 9 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 61 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 12-0-0.
(lb) - Max Horz 2=107(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 13, 14, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 9, 12, 13, 14, 11, 10

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13, 14, 11, 10.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

September 9,2025

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Job	Truss	Truss Type	Qty	Ply	METZGER RES.	T38467804
4789439	T08	Common Girder	1	2	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:52 2025 Page 1
ID:urBi2CDpEN7mWD6LziUSOYz8IDX-gCYRskbX7JXMNHockOmBvi1iiqfmdozRj60a48yfhjb

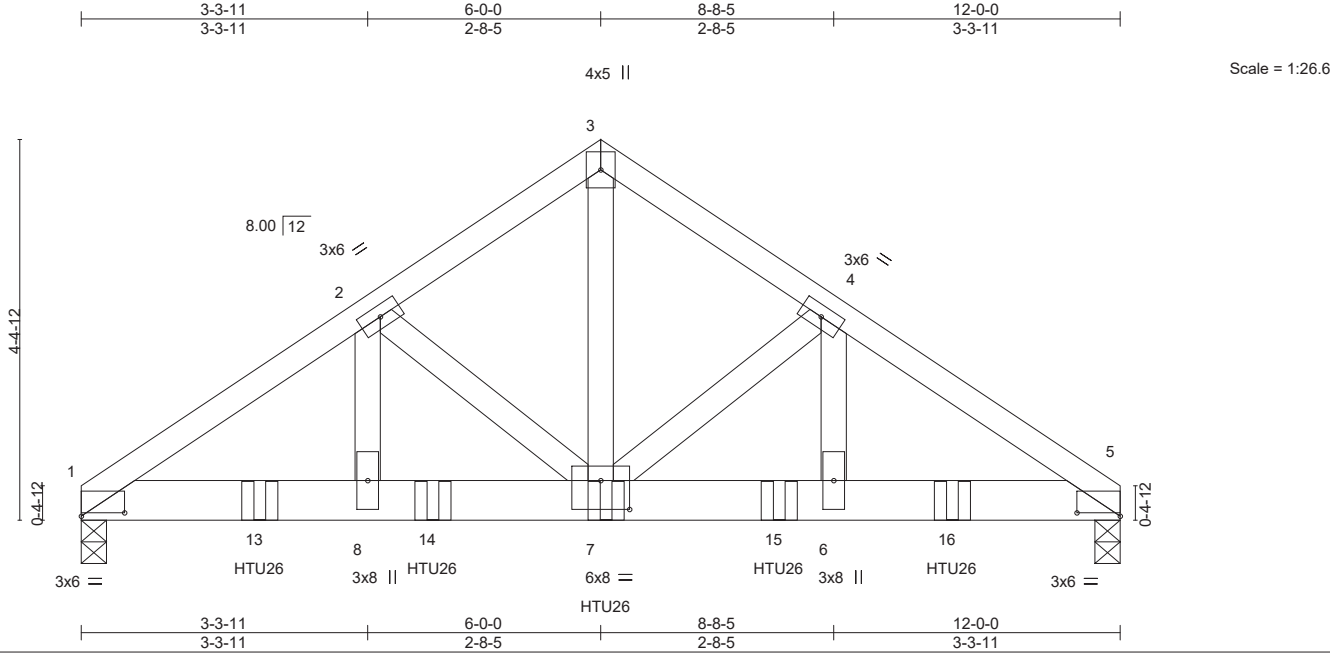


Plate Offsets (X,Y)-- [1:0-6-0,0-0-7], [5:0-6-0,0-0-7], [7:0-4-0,0-4-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.05	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.10		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.03		
BCDL	10.0	Code	FBC2023/TP12014	Matrix-MS					
								Weight: 140 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-11-8 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=99(LC 7)
Max Uplift 1=-867(LC 8), 5=-879(LC 9)
Max Grav 1=3822(LC 2), 5=3879(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-5951/1347, 2-3=-4186/982, 3-4=-4187/982, 4-5=-5946/1347
BOT CHORD 1-8=-1138/4938, 7-8=-1138/4938, 6-7=-1078/4937, 5-6=-1078/4937
WEBS 3-7=-1012/4435, 4-7=-1896/505, 4-6=-439/2038, 2-7=-1898/504, 2-8=-440/2048

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=867, 5=879.
 - Use Simpson Strong-Tie HTU26 (10-10d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 10-0-12 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 1-5=-20

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
September 9,2025

Job	Truss	Truss Type	Qty	Ply	METZGER RES.	T38467804
4789439	T08	Common Girder	1	2	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:52 2025 Page 2
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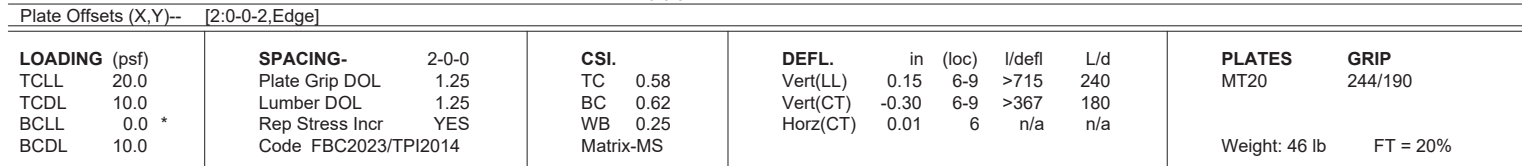
LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=-1260(B) 13=-1260(B) 14=-1260(B) 15=-1260(B) 16=-1260(B)

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Builders FirstSource (Lake City, FL) Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:53 2025 Page 1
 ID:urBi2CDpEN7mWD6LziUSOYz8IDX-8O6q44c9udfD?RNpI6HQSvaogE3?MPYbxml8cayfhja
 -1-6-0 5-0-0 9-3-8 12-10-12
 1-6-0 5-0-0 4-3-8 3-7-4



REACTIONS. (size) 5=Mechanical, 2=0-3-8, 6=0-3-8
 Max Horz 2=143(LC 8)
 Max Uplift 5=-46(LC 8), 2=-238(LC 8), 6=-281(LC 8)
 Max Grav 5=83(LC 1), 2=452(LC 1), 6=508(LC 1)

TOP CHORD 2-3=-650/357, 4-6=-260/174
BOT CHORD 2-6=-474/624
WEBS 3-6=-618/463

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3-1-6-0 to 1-6-0, Zone1 1-6-0 to 12-10-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=238, 6=281.

Joaquin Velez PE No.68182
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Chesterfield, MO 63017
Date:

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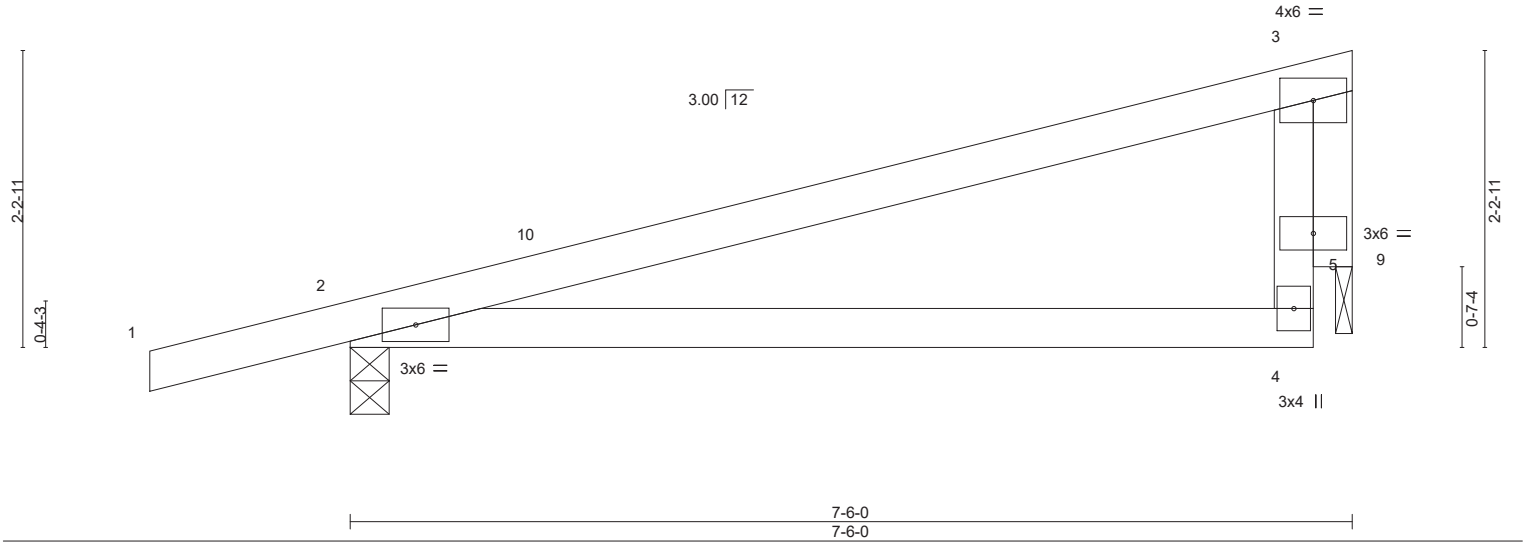
Job	Truss	Truss Type	Qty	Ply	METZGER RES.	T38467806
4789439	T13	Monopitch	9	1	Job Reference (optional)	

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

8.830 s Aug 14 2025 MiTek Industries, Inc. Mon Sep 8 12:27:53 2025 Page 1
ID:urBi2CDpEN7mWD6LziUSOYz8IDX-8O6q44c9udfD?RNpl6HQSvaqqE6gMO5bxmI8cayfhja



Scale = 1:17.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.51	Vert(LL)	0.12	4-8	>740	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.45	Vert(CT)	-0.16	4-8	>563	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MR						Weight: 29 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 9=0-1-8
Max Horz 2=87(LC 8)
Max Uplift 2=-221(LC 8), 9=-145(LC 8)
Max Grav 2=396(LC 1), 9=259(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-9=-283/239

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-0-12 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
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 9 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 at joint(s) 9.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=221, 9=145.

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:

September 9,2025

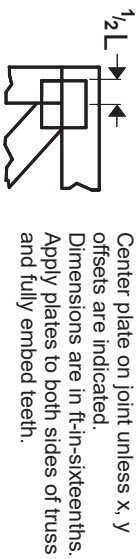
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

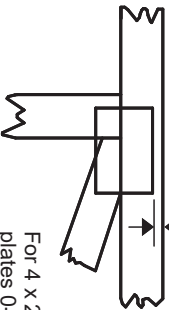
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Symbols

PLATE LOCATION AND ORIENTATION



0-¹/₁₆"



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

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

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

PLATE SIZE

4 X 4

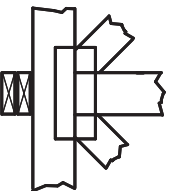
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

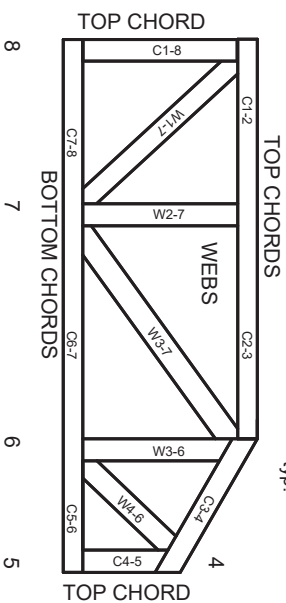
Industry Standards:

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

Numbering System

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

1 2 3 Joint ID typ.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

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.