

RE: 4894417 - CURASCO RES.

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:
Customer Info: AMIRA BLDRS. Project Name: Curasco Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 316 SW Cypresswood Glen, N/A
City: Lake City, 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: N/A psf

This package includes 51 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	T38959534	CJ01	10/24/25	15	T38959548	T03	10/24/25
2	T38959535	CJ03	10/24/25	16	T38959549	T03G	10/24/25
3	T38959536	EJ01	10/24/25	17	T38959550	T04	10/24/25
4	T38959537	EJ02	10/24/25	18	T38959551	T05	10/24/25
5	T38959538	HJ08	10/24/25	19	T38959552	T06	10/24/25
6	T38959539	PB01	10/24/25	20	T38959553	T07	10/24/25
7	T38959540	PB01G	10/24/25	21	T38959554	T08	10/24/25
8	T38959541	PB02	10/24/25	22	T38959555	T09	10/24/25
9	T38959542	PB02G	10/24/25	23	T38959556	T09G	10/24/25
10	T38959543	PB03	10/24/25	24	T38959557	T10	10/24/25
11	T38959544	PB03G	10/24/25	25	T38959558	T11	10/24/25
12	T38959545	T01	10/24/25	26	T38959559	T11G	10/24/25
13	T38959546	T01G	10/24/25	27	T38959560	T12	10/24/25
14	T38959547	T02	10/24/25	28	T38959561	T12G	10/24/25

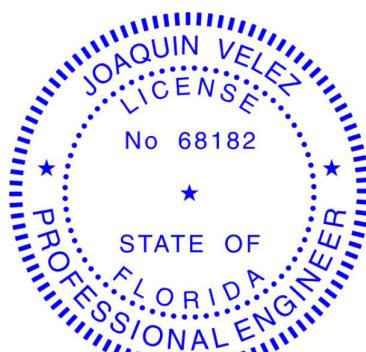


This item has been digitally signed and sealed by Velez, Joaquin, PE on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

Truss Design Engineer's Name: Velez, Joaquin

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



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

October 24, 2025



RE: 4894417 - CURASCO RES.

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

Site Information:

Customer Info: AMIRA BLDRS. Project Name: Curasco Res. Model: Custom

Lot/Block: N/A Subdivision: N/A

Address: 316 SW Cypresswood Glen, N/A

City: Lake City, State: FL

No.	Seal#	Truss Name	Date
29	T38959562	T13	10/24/25
30	T38959563	T14	10/24/25
31	T38959564	T15	10/24/25
32	T38959565	T16	10/24/25
33	T38959566	T16G	10/24/25
34	T38959567	T17	10/24/25
35	T38959568	T17G	10/24/25
36	T38959569	T18	10/24/25
37	T38959570	T19G	10/24/25
38	T38959571	T20	10/24/25
39	T38959572	T20G	10/24/25
40	T38959573	T21	10/24/25
41	T38959574	T22	10/24/25
42	T38959575	T22G	10/24/25
43	T38959576	T23	10/24/25
44	T38959577	T23G	10/24/25
45	T38959578	T24	10/24/25
46	T38959579	T25	10/24/25
47	T38959580	V01	10/24/25
48	T38959581	V02	10/24/25
49	T38959582	V03	10/24/25
50	T38959583	V04	10/24/25
51	T38959584	V05	10/24/25

Job 489417	Truss CJ01	Truss Type JACK-OPEN	Qty 4	Ply 1	CURASCO RES.	T38959534
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Builders FirstSource (Lake City,FL),

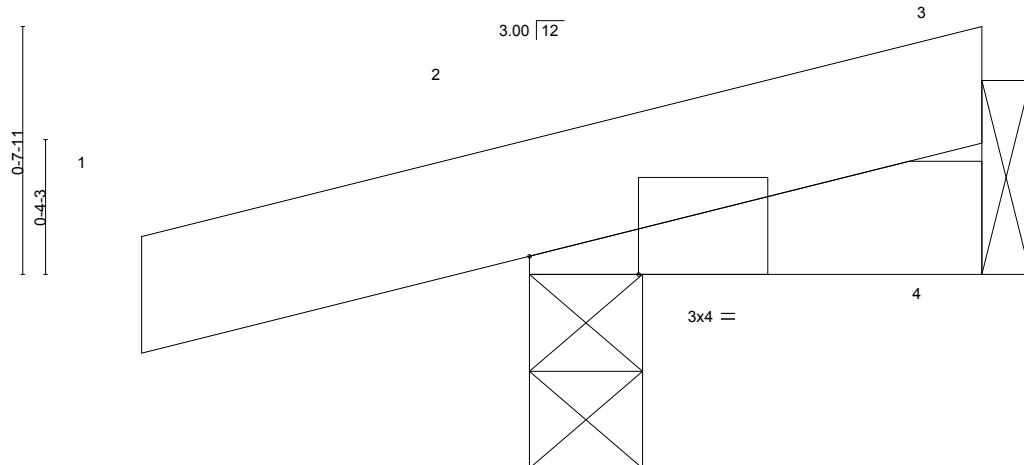
Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:43 2025 Page 1

ID:5r2frgbregYyojbgsnrYiDyVSr7-9JryK8LLmhCfGiF9xenLauxNO7093HQiY4ZzshyQXZ6

-1-0-0 1-0-0 1-2-0 1-2-0

Scale = 1:5.9



1-2-0 1-2-0

Plate Offsets (X,Y)-- [2:0-3-6,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 0.11	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.01	Vert(CT)	-0.00	5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP						Weight: 5 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=Mechanical
 Max Horz 2=31(LC 8)
 Max Uplift 2=-116(LC 8), 4=-17(LC 9)
 Max Grav 2=132(LC 1), 4=26(LC 3)

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

NOTES-

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb)
 $2=116$.

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:

October 24,2025

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

Job 4894417	Truss CJ03	Truss Type Jack-Open	Qty 4	Ply 1	CURASCO RES.	T38959535
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:43 2025 Page 1

ID:5r2frgbregYyobjgsnrYiDyVSr7-9JryK8LLmhCfGi9xenLauxNN7?e3HQiY4ZzshyQXZ6

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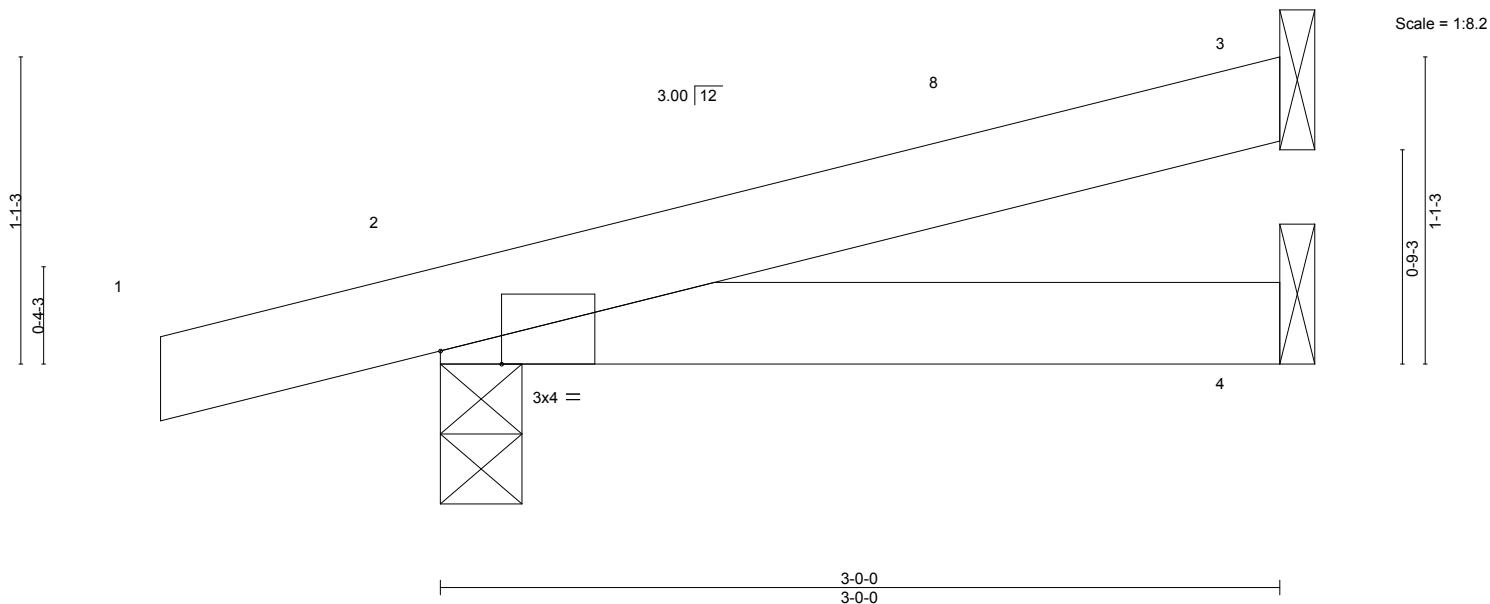


Plate Offsets (X,Y)-- [2:0-2-10,Edge]

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 0.11	Vert(LL)	0.01	4-7	>999	240		
TCDL 10.0	Lumber DOL	1.25	BC 0.11	Vert(CT)	-0.01	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP						Weight: 11 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=53(LC 8)
Max Uplift 3=-51(LC 8), 2=-150(LC 8), 4=-31(LC 8)
Max Grav 3=69(LC 1), 2=188(LC 1), 4=50(LC 3)

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

NOTES-

1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 2-11-4 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

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

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

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

5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb)
2=150.

This item has been
digitally signed and
sealed by Velez, Joaquin, PE
on the date indicated here.
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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:

October 24,2025

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.sbcscscomponents.com)

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

Job 4894417	Truss EJ02	Truss Type Jack-Closed	Qty 6	Ply 1	CURASCO RES.	T38959537
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:45 2025 Page 1

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-1-0-0 1-0-0 4-8-0 4-8-0

Scale = 1:10.7

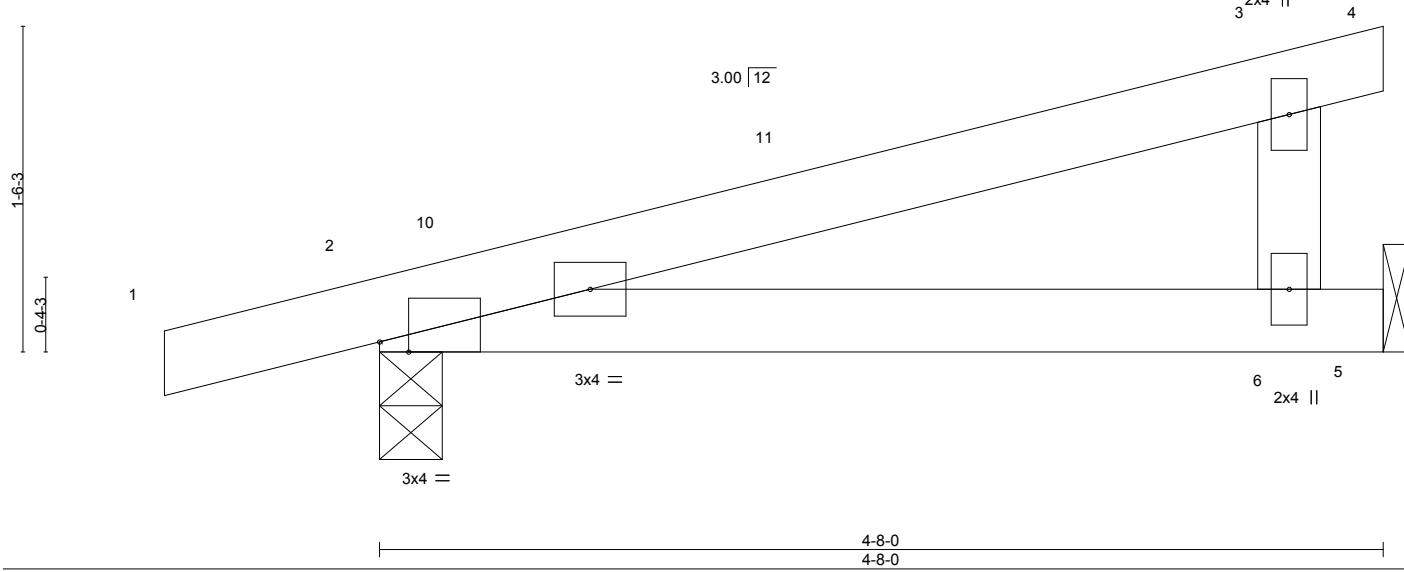


Plate Offsets (X,Y)-- [2:0-1-10,Edge]

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 0.31	Vert(LL)	0.07	6-9	>831	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.33	Vert(CT)	0.06	6-9	>968	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP						Weight: 17 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=Mechanical
Max Horz 2=74(LC 8)
Max Uplift 2=-193(LC 8), 5=-137(LC 8)
Max Grav 2=251(LC 1), 5=181(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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 4-8-0 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) except (jt=lb)
2=193, 5=137.

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:

October 24,2025

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

Job 4894417	Truss HJ08	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	CURASCO RES.	T38959538
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Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:46 2025 Page 1

ID:5r2frgbregYyojbgsnrYiDyVSr7-ZuX4zAOE2caE7AzkcnL2BXZkaLvNGeA9E2neT0yQXZ3

-1-5-0
1-5-0

7-0-2

7-0-2

Scale = 1:15.7

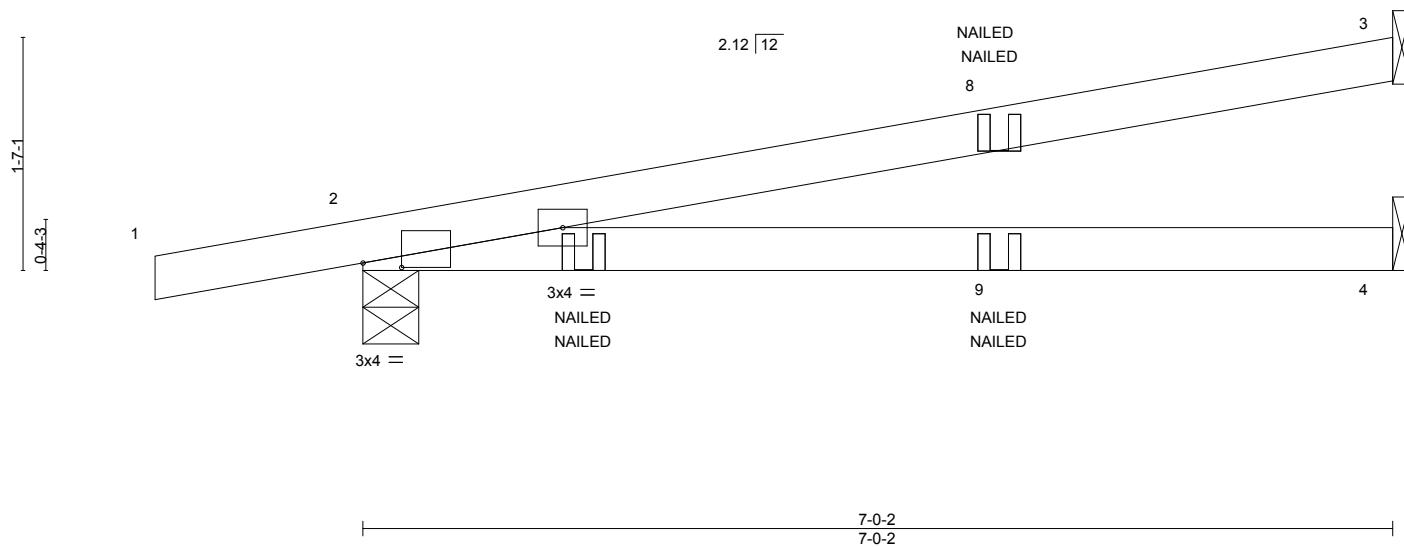


Plate Offsets (X,Y)-- [2:0-3-3,0-0-6]

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 0.75	Vert(LL)	0.24	4-7	>348	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.62	Vert(CT)	-0.25	4-7	>330	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 23 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=78(LC 4)
Max Uplift 3=-131(LC 4), 2=-301(LC 4), 4=-83(LC 4)
Max Grav 3=180(LC 1), 2=379(LC 1), 4=126(LC 3)

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

NOTES-

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=131, 2=301.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=60, 4-5=20

Concentrated Loads (lb)

Vert: 7=1(F=1, B=1) 9=-22(F=-11, B=-11)

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

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

Job 4894417	Truss PB01	Truss Type Piggyback	Qty 11	Ply 1	CURASCO RES.	T38959539
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Builders FirstSource (Lake City,FL),

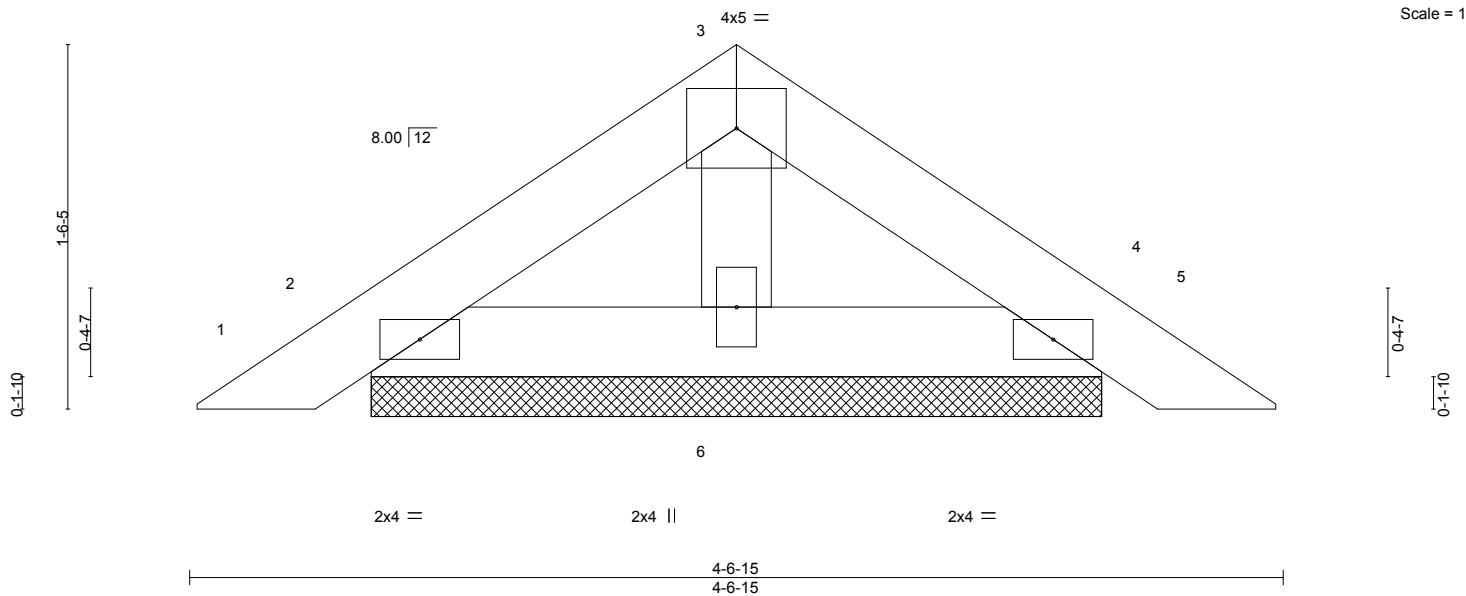
Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:46 2025 Page 1

ID:5r2frgbregYyojbgsnrYIDyVSr7-ZuX4zAOE2caE7AzkcnL2BXZuGL2hGer9E2neT0yQXZ3

4-6-15
4-6-15

Scale = 1:9.6



LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2023/TPI2014	CSI. TC 0.07 BC 0.02 WB 0.02 Matrix-P	DEFL. Vert(LL) 0.00 Vert(CT) 0.00 Horz(CT) 0.00 in (loc) 4 I/defl n/r L/d 120 n/a	PLATES MT20	GRIP 244/190
				Weight: 14 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=3-0-11, 4=3-0-11, 6=3-0-11
Max Horz 2=43(LC 11)
Max Uplift 2=-51(LC 12), 4=-57(LC 13), 6=-17(LC 12)
Max Grav 2=99(LC 1), 4=99(LC 1), 6=105(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 C; 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 100 lb uplift at joint(s) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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

October 24,2025

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.tpiinst.org) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association (www.sbcscscomponents.com)

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

Job 4894417	Truss PB01G	Truss Type PIGGYBACK	Qty 1	Ply 1	CURASCO RES.	T38959540
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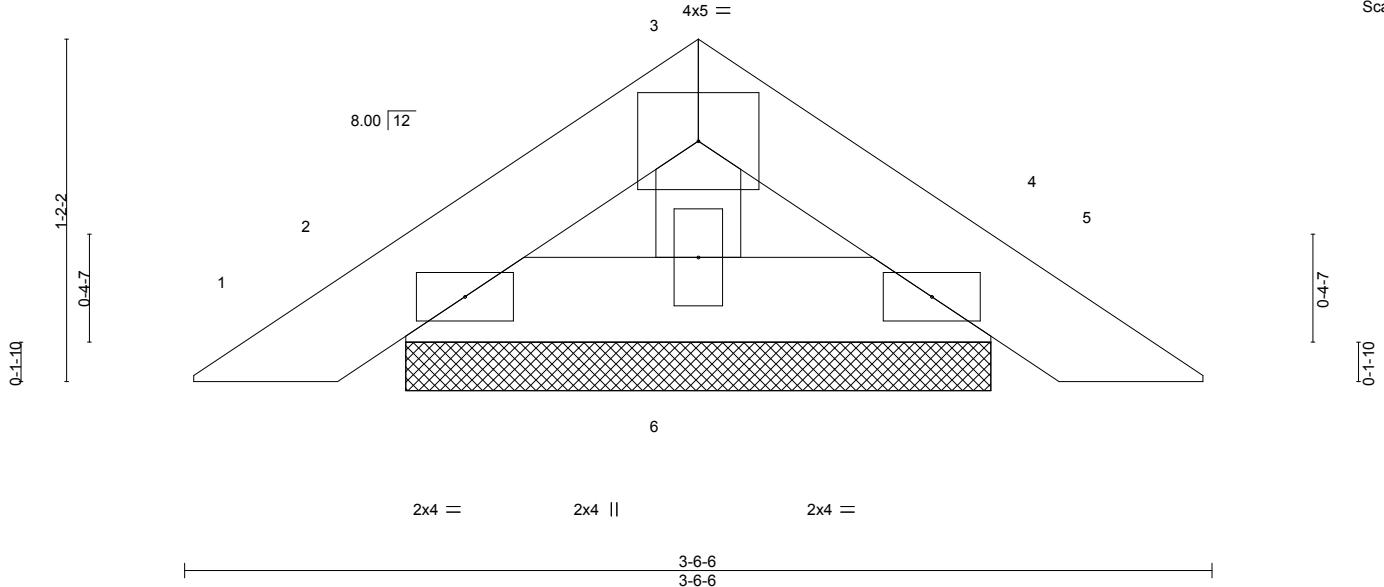
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:47 2025 Page 1

ID:5r2frgbregYyojbgsnrYiDyVSr7-145SAWPspwi5kJxAUshkk54UI08?5HITiXB?SyQXZ2

3-6-6
3-6-6

Scale = 1:7.9



LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2023/TPI2014	CSI. TC 0.04 BC 0.01 WB 0.01 Matrix-P	DEFL. Vert(LL) -0.00 4 n/r 120 Vert(CT) -0.00 4 n/r 120 Horz(CT) 0.00 4 n/a n/a	PLATES MT20	GRIP 244/190
				Weight: 10 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=2-0-2, 4=2-0-2, 6=2-0-2

Max Horz 2=32(LC 11)

Max Uplift 2=-42(LC 12), 4=-46(LC 13), 6=-7(LC 12)

Max Grav 2=77(LC 1), 4=77(LC 1), 6=64(LC 19)

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 C; 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 100 lb uplift at joint(s) 2, 4, 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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Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

October 24,2025

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 4894417	Truss PB02	Truss Type Piggyback	Qty 7	Ply 1	CURASCO RES.	T38959541
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Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

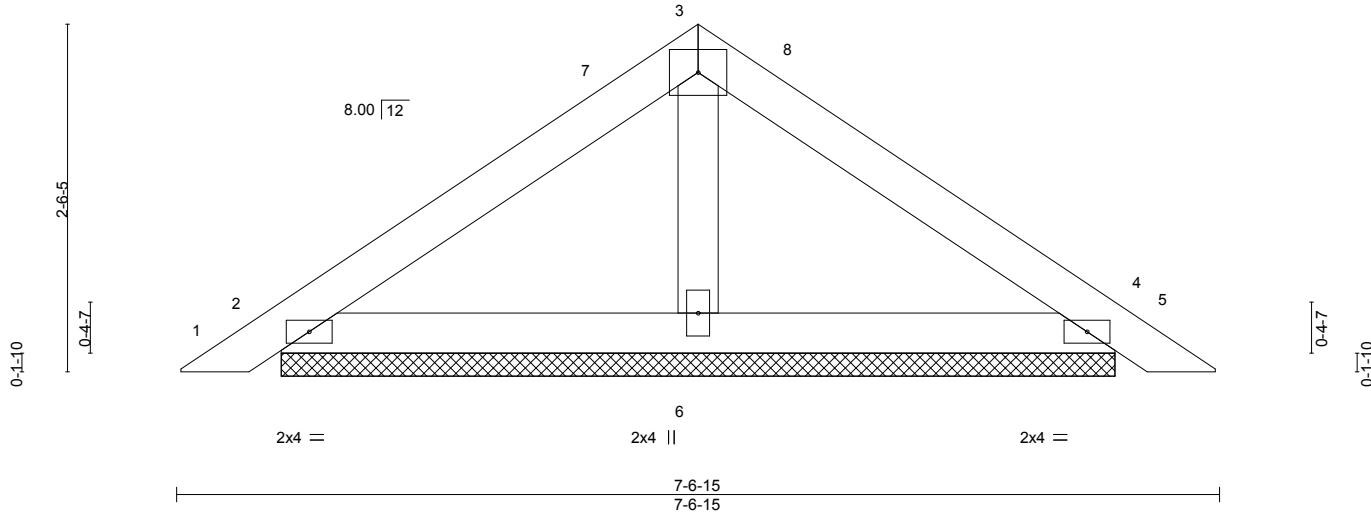
8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:47 2025 Page 1

ID:5r2frgbregYyojbgsnrYDyVSr7-145SAWPspwi5kJYxAUsHkk50WINr?5hTiXB?SyQXZ2

3-9-8 7-6-15 3-9-8

Scale = 1:16.7

4x5 =



LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2023/TPI2014	CSI. TC 0.29 BC 0.09 WB 0.05 Matrix-P	DEFL. Vert(LL) 0.00 Vert(CT) 0.01 Horz(CT) 0.00 in (loc) 5 I/defl n/r L/d 120 Rigid ceiling directly applied or 10-0-0 oc bracing.	PLATES MT20 Weight: 25 lb	GRIP 244/190 FT = 20%
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LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=6-0-11, 4=6-0-11, 6=6-0-11
Max Horz 2=-75(LC 10)
Max Uplift 2=-80(LC 12), 4=-90(LC 13), 6=-41(LC 12)
Max Grav 2=162(LC 1), 4=162(LC 1), 6=218(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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-5 to 3-3-5, Zone1 3-3-5 to 3-9-8, Zone3 3-9-8 to 7-3-10 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 100 lb uplift at joint(s) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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

October 24,2025

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MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / [MiTek-US.com](#)

Job 4894417	Truss PB02G	Truss Type GABLE	Qty 1	Ply 1	CURASCO RES.	T38959542
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Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

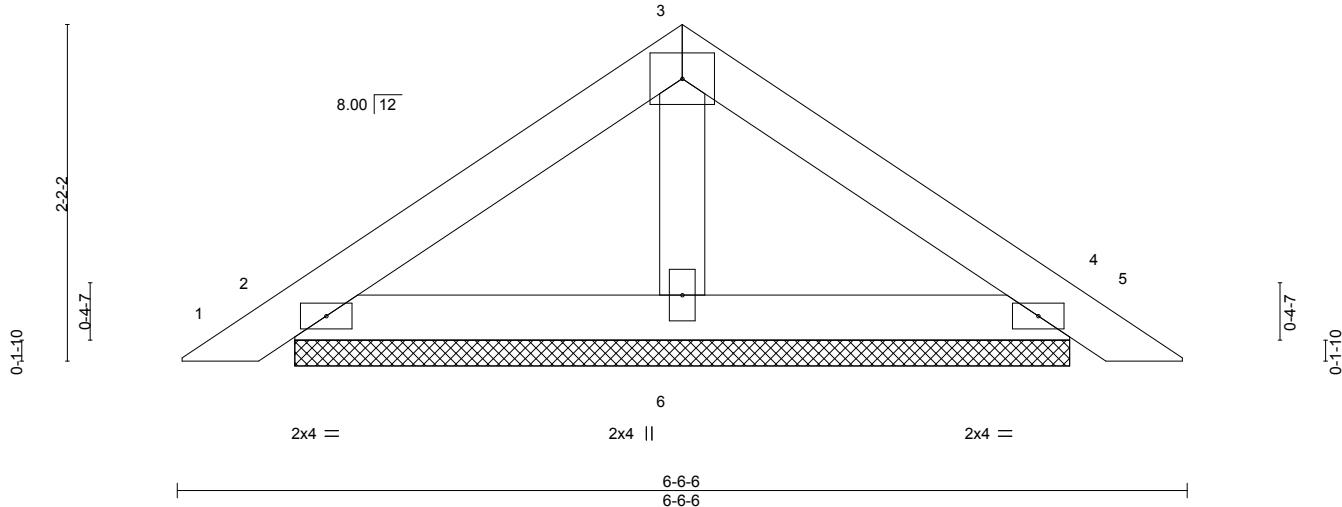
8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:48 2025 Page 1

ID:5r2frgbregYyojbgsnrYiDyVs7-VGfrOsPUaEqyMT77kCNWHyecf8kYkY0RiMHkXuyQXZ1

3-3-3 6-6-6 3-3-3

Scale = 1:14.9

4x5 =



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 0.20	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	0.00	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P						Weight: 21 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=5-0-2, 4=5-0-2, 6=5-0-2

Max Horz 2=63(LC 10)

Max Uplift 2=70(LC 12), 4=78(LC 13), 6=32(LC 12)

Max Grav 2=140(LC 1), 4=140(LC 1), 6=179(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 C; 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 Cable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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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:

October 24,2025

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MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / [MiTek-US.com](#)

Job 4894417	Truss PB03G	Truss Type GABLE	Qty 2	Ply 1	CURASCO RES.	T38959544
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:50 2025 Page 1

ID:5r2frgbregYyojbgsnrYIDyVSr7-Rfmb0YRk6r4fcnHvrcP?MNjaJyPZCSFk9gmrcnyQXZ?

8-2-15
8-2-15

16-5-14
8-2-15

Scale = 1:32.8

4x5 =

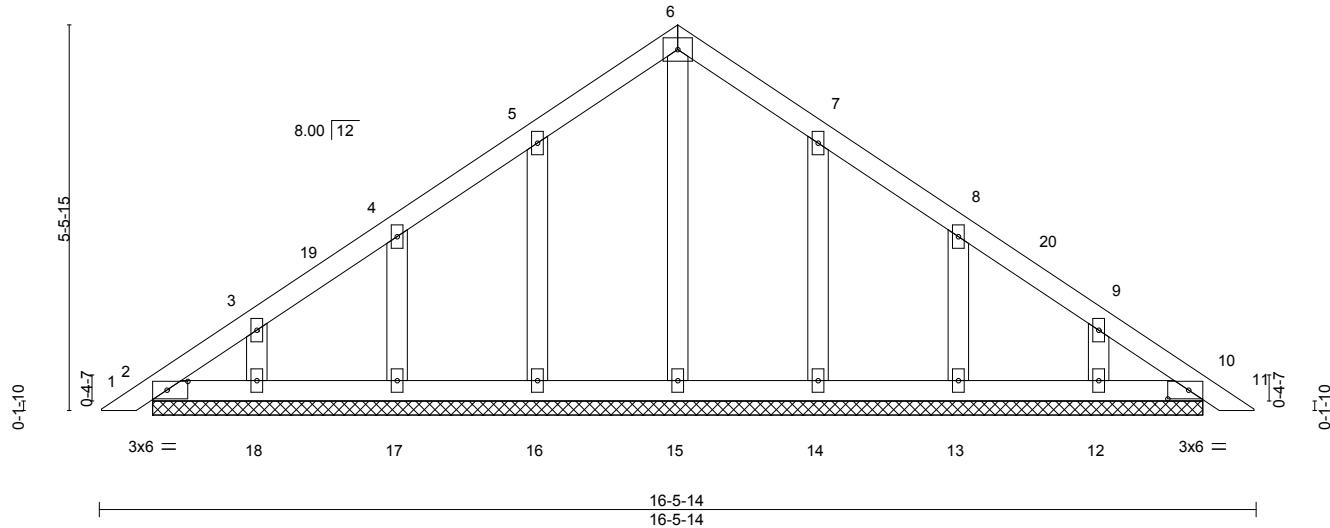


Plate Offsets (X,Y)-- [2:0-3-9,0-1-8], [10:0-3-9,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.06	Vert(LL)	0.00	10	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	0.00	10	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S						Weight: 78 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 14-11-10.
(lb) - Max Horz 2=-169(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10 except 16=-120(LC 12), 17=-117(LC 12), 18=-111(LC 12),
14=-118(LC 13), 13=-118(LC 13), 12=-110(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone 3 0-3-5 to 3-3-5, Zone1 3-3-5 to 8-2-15, Zone2 8-2-15 to 12-2-15, Zone1 12-2-15 to 16-2-9 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, 10 except (jt=lb) 16=120, 17=117, 18=111, 14=118, 13=118, 12=110.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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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:

October 24,2025

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

Job 4894417	Truss T01	Truss Type Common	Qty 8	Ply 1	CURASCO RES.	T38959545
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Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:50 2025 Page 1

ID:5r2frgbregYyojbgsrnYiDyVsR7-Rfmb0YRk6r4fcnHvrcP?MNjLnylXCNGk9gmrcnyQXZ?

-1-6-0 1-6-0	6-10-0 6-10-0	12-0-0 5-2-0	17-2-0 5-2-0	24-0-0 6-10-0	25-6-0 1-6-0
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4x5 ||

Scale = 1:56.8

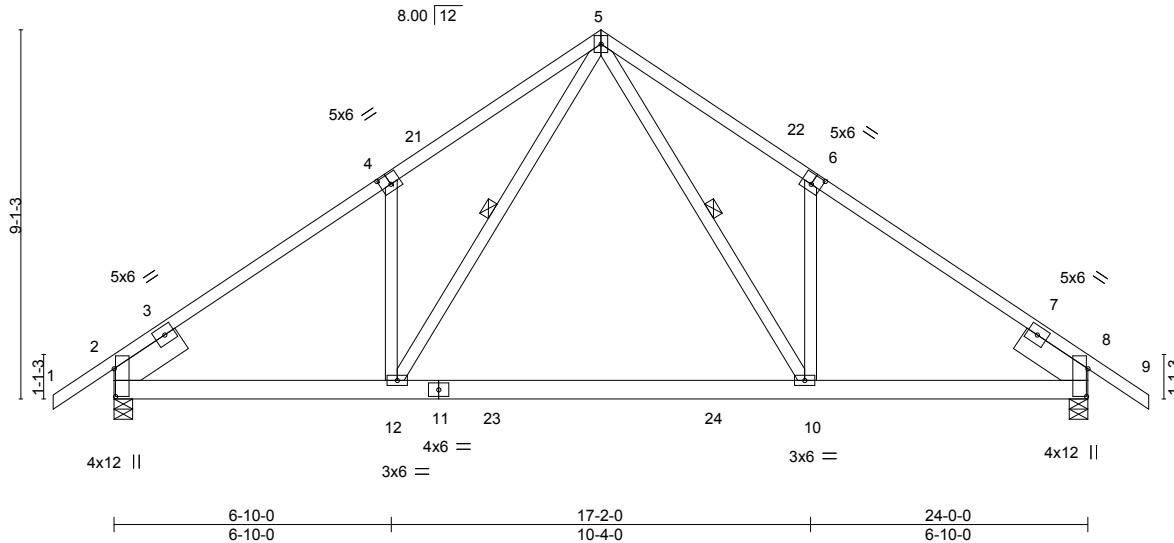


Plate Offsets (X,Y)-- [2:0-8-3,0-0-7], [4:0-3-0,0-3-0], [6:0-3-0,0-3-0], [8:0-8-3,0-0-7]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.99	Vert(LL)	-0.23	10-12	>999	240	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.48	Vert(CT)	-0.46	10-12	>632	180	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.38	Horz(CT)	0.04	8	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 160 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-10, 5-12

REACTIONS. (size) 2=0-5-8, 8=0-5-8

Max Horz 2=-287(LC 10)
Max Uplift 2=-516(LC 12), 8=-516(LC 13)
Max Grav 2=1525(LC 19), 8=1525(LC 20)

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

TOP CHORD 2-4=-1978/655, 4-5=-2011/871, 5-6=-2011/871, 6-8=-1979/655
BOT CHORD 2-12=-552/1740, 10-12=-259/1126, 8-10=-410/1583
WEBS 5-10=-561/1190, 6-10=-340/362, 5-12=-561/1190, 4-12=-340/362

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 C; 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 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 25-6-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=516, 8=516.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-60, 5-9=-60, 12-13=-20, 10-12=-80(F=-60), 10-17=-20

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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:

October 24,2025

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

Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959546
4894417	T01G	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

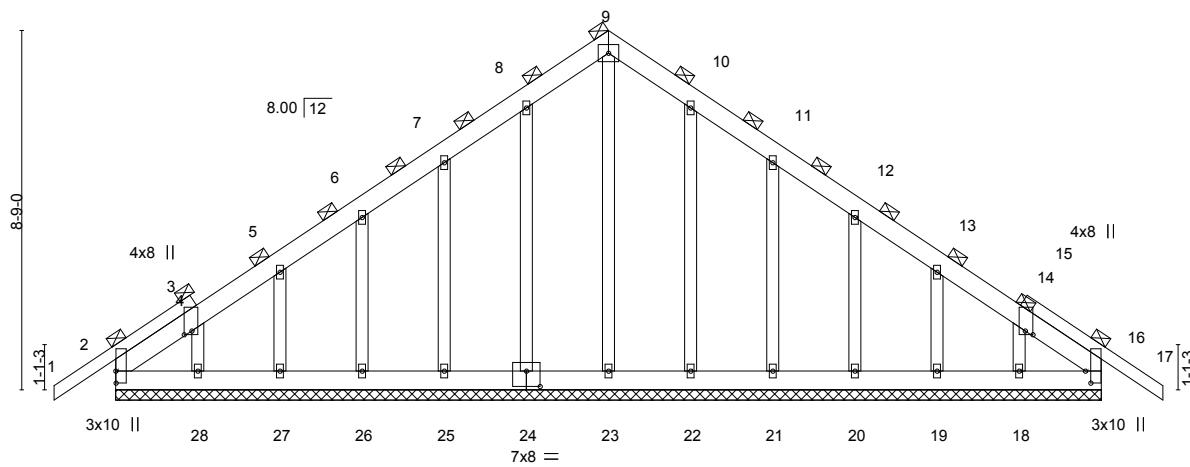
Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:51 2025 Page 1

ID:5r2frgbregYyojbgsnrYiDyVSr7-wrKz0tSMt9CWDxsiPKwEuaGjrMlqxtYuOKVO8DyQXZ_

-1-6-0 12-0-0 24-0-0 25-6-0
1-6-0 12-0-0 12-0-0 1-6-0

Scale = 1:56.1



24-0-0

24-0-0

Plate Offsets (X,Y)-- [2:0-3-8,0-0-1], [3:0-1-1,0-2-4], [15:0-1-1,0-2-4], [16:0-3-8,0-1-9], [24:0-4-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.14	Vert(LL)	-0.00	17	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	-0.01	17	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.01	16	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S						Weight: 205 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-4,14-17: 2x4 SP No.2

BOT CHORD 2x6 SP No.2

OTHERS 2x4 SP No.3

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.).

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 24-0-0.

(lb) - Max Horz 2=-272(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 24, 22 except 25=-124(LC 12), 26=-116(LC 12),

27=-107(LC 12), 28=-146(LC 12), 21=-127(LC 13), 20=-115(LC 13), 19=-110(LC 13), 18=-135(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18

FORCES.

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

TOP CHORD 2-3=-257/196

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 C; 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, 16, 24, 22
except (jt=lb) 25=124, 26=116, 27=107, 28=146, 21=127, 20=115, 19=110, 18=135.

11) 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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Chesterfield, MO 63017
Date:

October 24,2025

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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 the 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

Job 4894417	Truss T02	Truss Type Common	Qty 3	Ply 1	CURASCO RES.	T38959547
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Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:52 2025 Page 1

ID:5r2frgbregYyojbgsnrYiDyVSr7-O2uLDDs_eSKNr5Ruz1STRophlm_1gGf1d_FyffyQXYz

-1-6-0 6-10-0 12-0-0 17-2-0 24-0-0
1-6-0 6-10-0 5-2-0 5-2-0 6-10-0

Scale = 1:54.3

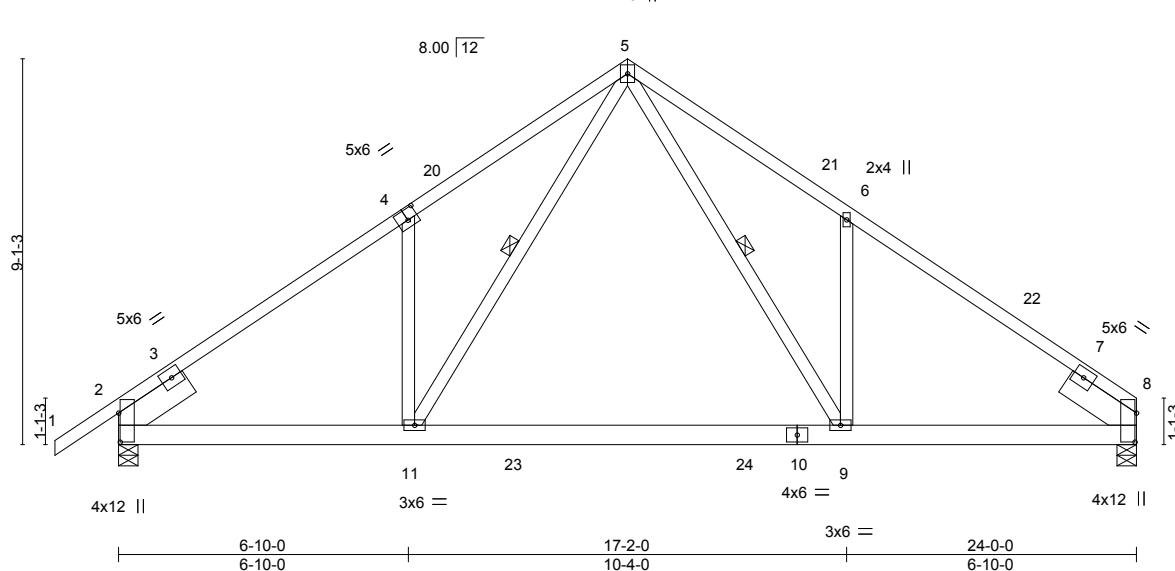


Plate Offsets (X,Y)-- [2:0-8-3,0-0-7], [4:0-3-0,0-0-3], [8:0-8-3,0-0-7]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.99	Vert(LL)	-0.23	9-11	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.48	Vert(CT)	-0.45	9-11	>636	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.38	Horz(CT)	0.04	8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 158 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-9, 5-11

REACTIONS. (size) 8=0-5-8, 2=0-5-8

Max Horz 2=276(LC 9)
Max Uplift 8=-463(LC 13), 2=-516(LC 12)
Max Grav 8=1435(LC 20), 2=1526(LC 19)

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

TOP CHORD 2-4=-1981/656, 4-5=-2013/872, 5-6=-2029/884, 6-8=-1990/676
BOT CHORD 2-11=-573/1726, 9-11=-281/1113, 8-9=-432/1574
WEBS 5-9=-575/1212, 6-9=-347/367, 5-11=-560/1188, 4-11=-340/362

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 C; 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 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 24-0-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=463, 2=516.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-60, 5-8=-60, 11-16=-20, 9-11=-80(F=-60), 9-12=-20

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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:

October 24,2025

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Job 4894417	Truss T03	Truss Type Piggyback Base	Qty 1	Ply 1	CURASCO RES.	T38959548
Builders FirstSource (Lake City,FL),	Lake City, FL - 32055,					
8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:53 2025 Page 1 ID:5r2frgbregYyojbgsnrYiDyVs7-sEskRZTdPmTETE04Xlzi_?LxX9laPj9Bre_VB6yQXYy						
6-10-0	12-1-8	16-8-8	24-2-0	29-10-0		
6-10-0	5-3-8	4-6-15	7-5-8	5-8-0		
Scale: 3/16"=1"						

Plate Offsets (X,Y)-- [1:Edge,0-1-12], [3:0-2-8,0-1-13], [4:0-5-12,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.64	Vert(LL)	-0.11	8-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.58	Vert(CT)	-0.20	8-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.03	7	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 217 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 9-7-10 oc bracing.
WEBS 1 Row at midpt 2-11, 4-11, 5-9

REACTIONS. (size) 13=0-3-8, 7=Mechanical
Max Horz 13=-274(LC 8)
Max Uplift 13=-399(LC 12), 7=-406(LC 13)
Max Grav 13=1313(LC 2), 7=1324(LC 20)

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

TOP CHORD 1-2=-1267/408, 2-3=-1146/500, 3-4=-882/463, 4-5=-1209/476, 5-6=-1359/431,
1-13=-1208/415, 6-7=-1253/416
BOT CHORD 12-13=-273/302, 11-12=-373/1126, 9-11=-177/926, 8-9=-279/1084
WEBS 2-11=-321/269, 3-11=-180/440, 4-9=-143/485, 5-9=-365/297, 1-12=-240/1017,
6-8=-287/1135

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 12-1-8, Zone2 12-1-8 to 16-4-7, Zone1 16-4-7 to 16-8-8, Zone2 16-8-8 to 20-11-6, Zone1 20-11-6 to 29-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 3x6 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * 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.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=399, 7=406.
- 10) 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:

October 24, 2025

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

Job 4894417	Truss T03G	Truss Type GABLE	Qty 1	Ply 1	CURASCO RES.	T38959549
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Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:54 2025 Page 1

ID:5r2frbregYojbgsnYiDyVSr7-KQ06evUFA4b54OaH4SUxWDuFQZn38EhK4Hk3kYyQXYx

12-7-13 16-2-3 29-10-0
12-7-13 3-6-6 13-7-13

Scale = 1:68.2

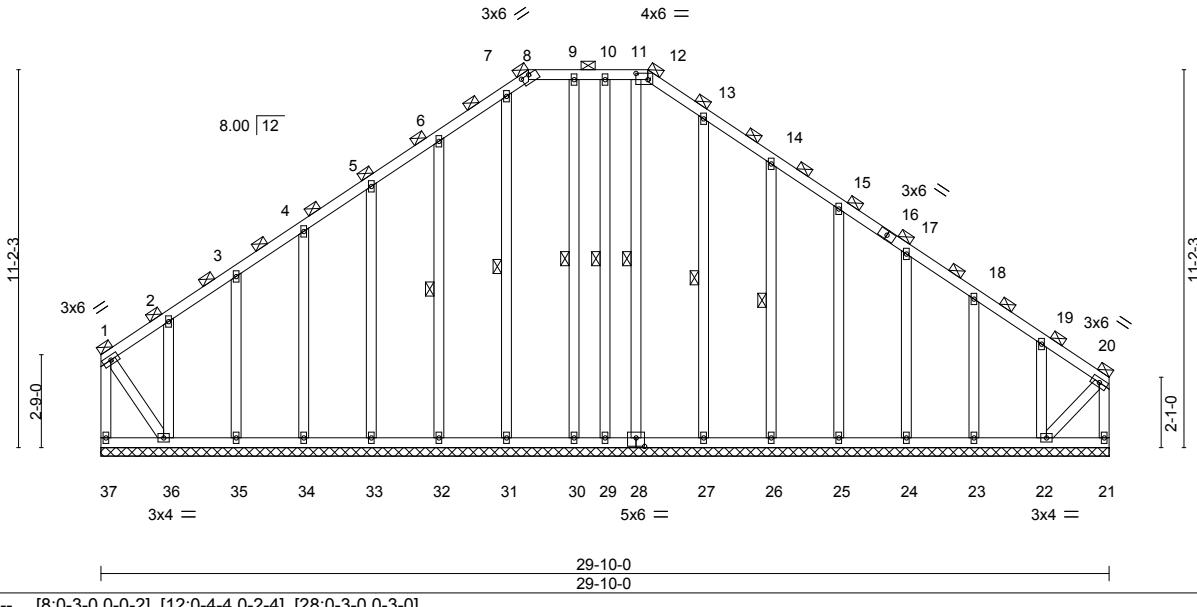


Plate Offsets (X,Y)-- [8:0-3-0,0-0-2], [12:0-4-4,0-2-4], [28:0-3-0,0-3-0]

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 0.12	Vert(LL)	n/a	-	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	n/a	-	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.01	22	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S				n/a	Weight: 274 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.
WEBS 1 Row at midpt 10-29, 14-26, 13-27, 11-28, 6-32, 7-31, 9-30

REACTIONS. All bearings 29-10-0.

(lb) - Max Horz 37=285(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 29, 27, 31, 30 except 37=281(LC 10), 21=-164(LC 11), 22=-330(LC 13), 23=-115(LC 13), 24=-115(LC 13), 25=-113(LC 13), 26=-125(LC 13), 36=-401(LC 12), 35=-115(LC 12), 34=-115(LC 12), 33=-113(LC 12), 32=-135(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 29, 23, 24, 25, 26, 27, 28, 35, 34, 33, 32, 31, 30 except 37=375(LC 12), 21=304(LC 13), 22=277(LC 20), 36=361(LC 10)

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

TOP CHORD 1-37=368/294, 6-7=179/281, 7-8=174/268, 8-9=165/275, 9-10=165/275, 10-11=165/275, 11-12=165/275, 12-13=188/296, 20-21=298/179

BOT CHORD 36-37=276/284

WEBS 1-36=275/348, 20-22=183/295

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 C; Encl., GCp=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) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 27, 31, 30 except (jt=lb) 37=281, 21=164, 22=330, 23=115, 24=115, 25=113, 26=125, 36=401, 35=115, 34=115, 33=113, 32=135.
- 13) 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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MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

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Job 4894417	Truss T04	Truss Type Piggyback Base	Qty 2	Ply 1	CURASCO RES.	T38959550
Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:55 2025 Page 1 ID:5r2frgbregYyojbgsnrYiDyVSr7-odaUsFVtxNjyiY9TeA?A3QRFNzt8tWmTJxTcG_yQXYw						
6-10-0 12-1-8 16-8-8 21-2-0 25-4-0 29-10-0 6-10-0 5-3-8 4-6-15 4-5-8 4-2-0 4-6-0						
Scale = 1:69.1						

Plate Offsets (X,Y)-- [1:Edge,0-1-12], [3:0-2-8,0-1-13], [4:0-5-12,0-2-0], [8:0-8-15,Edge], [9:0-2-0,0-3-0]

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 0.81	Vert(LL)	-0.11	9-18	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.96	Vert(CT)	-0.23	9-18	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.07	8	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 230 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-10: 2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Right 2x8 SP 2400F 2.0E 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-4-13 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-5 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 2-12, 4-12, 4-11

REACTIONS. (size) 8=Mechanical, 15=0-3-8
Max Horz 15=-277(LC 8)
Max Uplift 8=-408(LC 13), 15=-401(LC 12)
Max Grav 8=1301(LC 20), 15=1310(LC 2)

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

TOP CHORD 1-2=-1262/411, 2-3=-1142/503, 3-4=-880/466, 4-5=-1558/718, 5-6=-1519/529,
6-8=-1628/557, 1-15=-1204/417
BOT CHORD 14-15=-273/303, 12-14=-372/1123, 11-12=-175/910, 5-9=-363/313, 8-9=-355/1268
WEBS 2-12=-319/268, 3-12=-162/417, 9-11=-156/937, 4-9=-429/923, 1-14=-242/1012

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 12-1-8, Zone2 12-1-8 to 16-4-7, Zone1 16-4-7 to 16-8-8, Zone2 16-8-8 to 21-1-4, Zone1 21-1-4 to 29-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=408, 15=401.
- 9) 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:

October 24,2025

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959551
4894417	T05	Piggyback Base	3	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:56 2025 Page 1 ID:5r2frgbregYyojbgsnrYiDyVSr7-Gp8s3bWVihrpKikfCtWPbezR9NEvcy8dXbD9oRyQXYv

5-6-0 10-9-8 15-4-8 19-10-0 24-0-0 28-6-0
5-6-0 5-3-8 4-6-15 4-5-8 4-2-0 4-6-0

Scale = 1:68.8

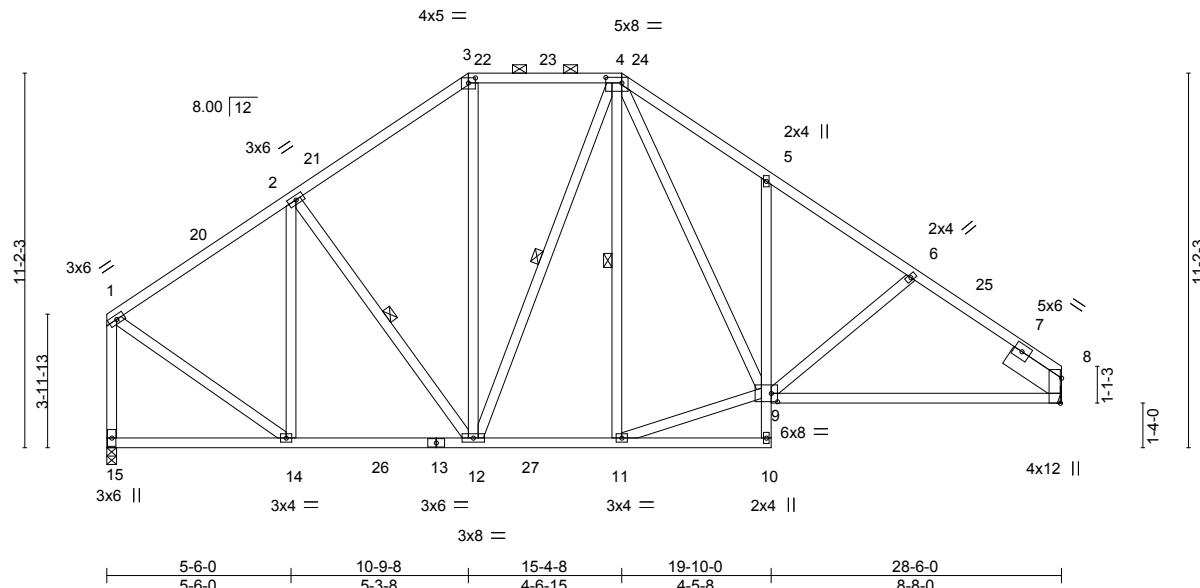


Plate Offsets (X,Y)-- [3:0-2-8,0-1-13], [4:0-5-12,0-2-0], [8:0-8-15,Edge], [9:0-2-4,0-3-0]

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 0.74	Vert(LL)	-0.11	9-18	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.93	Vert(CT)	-0.23	9-18	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.07	8	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 226 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-10: 2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Right 2x8 SP 2400F 2.0E 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 2-12, 4-12, 4-11

REACTIONS. (size) 8=Mechanical, 15=0-3-8
Max Horz 15=-274(LC 8)
Max Uplift 8=-390(LC 13), 15=-377(LC 12)
Max Grav 8=1246(LC 20), 15=1255(LC 2)

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

TOP CHORD 1-2=-1007/343, 2-3=-1025/459, 3-4=-786/432, 4-5=-1472/690, 5-6=-1428/499,
6-8=-1541/529, 1-15=-1176/402
BOT CHORD 14-15=-252/277, 12-14=-293/924, 11-12=-147/838, 5-9=-359/312, 8-9=-334/1200
WEBS 2-14=-364/178, 3-12=-135/351, 9-11=-129/866, 4-9=-424/909, 1-14=-243/935

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 10-9-8, Zone2 10-9-8 to 15-0-7, Zone1 15-0-7 to 15-4-8, Zone2 15-4-8 to 19-9-4, Zone1 19-9-4 to 28-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=390, 15=377.
- 9) 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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Chesterfield, MO 63017
Date:

October 24,2025

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Job 4894417	Truss T06	Truss Type Piggyback Base	Qty 1	Ply 1	CURASCO RES.	T38959552
Builders FirstSource (Lake City,FL),	Lake City, FL - 32055,					8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:56 2025 Page 1 ID:5r2frgbregYyojbgsnrYiDyVSr7-Gp8s3bWVihrpKlkfCtWPbezT6NMc3FdXbD9oRqXYv
5-6-0 10-9-8 15-4-8 22-10-0 28-6-0						
5-6-0	5-3-8	4-6-15	7-5-8			
Scale = 1:65.2						
5-6-0 10-9-8 15-4-8 22-10-0 28-6-0						

Plate Offsets (X,Y)-- [3:0-2-8,0-1-13], [4:0-5-12,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.62	Vert(LL)	-0.10	8-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.58	Vert(CT)	-0.20	8-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.03	7	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 212 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-11, 4-11, 5-9

REACTIONS. (size) 13=0-3-8, 7=Mechanical
Max Horz 13=-271(LC 8)
Max Uplift 13=-375(LC 12), 7=-387(LC 13)
Max Grav 13=1259(LC 2), 7=1270(LC 20)

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

TOP CHORD 1-2=-1011/341, 2-3=-1029/457, 3-4=-788/430, 4-5=-1124/446, 5-6=-1293/410,
1-13=-1181/400, 6-7=-1198/398
BOT CHORD 12-13=-250/275, 11-12=-295/927, 9-11=-150/854, 8-9=-262/1029
WEBS 2-12=-360/178, 3-11=-153/375, 4-11=-271/172, 4-9=-147/493, 5-9=-384/303,
1-12=-241/940, 6-8=-267/1076

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 10-9-8, Zone2 10-9-8 to 15-0-7, Zone1 15-0-7 to 15-4-8, Zone2 15-4-8 to 19-7-6, Zone1 19-7-6 to 28-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=375, 7=387.
- 9) 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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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

October 24,2025

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959553
4894417	T07	Piggyback Base	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:57 2025 Page 1

ID:5r2frgbregYyojbgsrnYIDyVs7-k?EGxW7T?zgxsJsm1e8rWdHndqLVGmmFyjKtyQXYu

5-6-0 10-9-8 15-4-8 22-10-0 30-6-0 32-0-0
5-6-0 5-3-8 4-6-15 7-5-8 7-8-0 1-6-0

Scale = 1:69.6

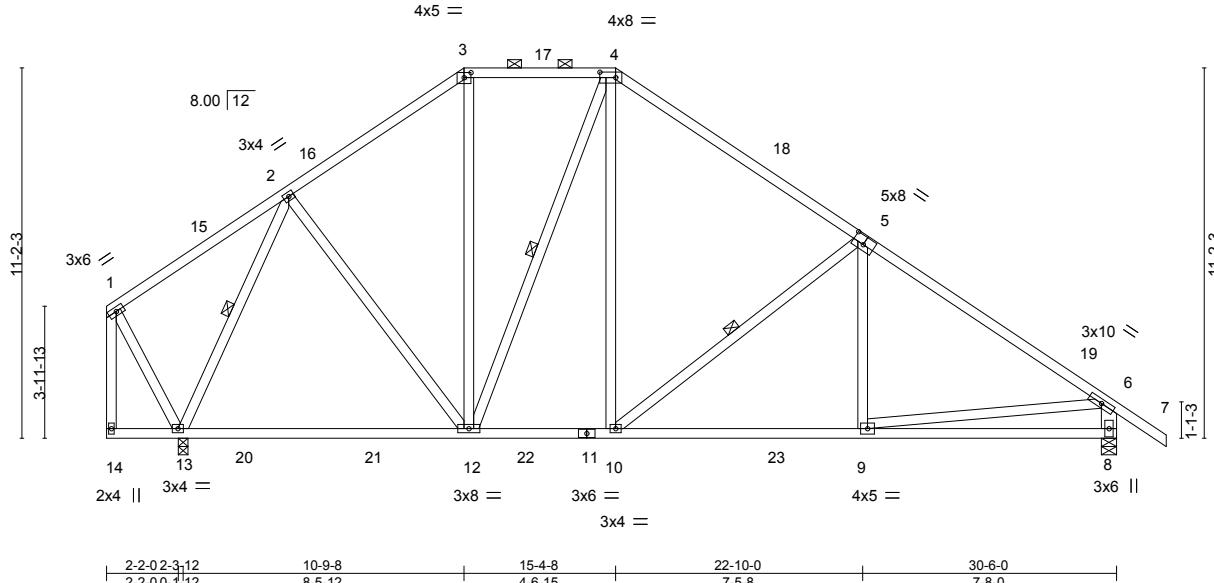


Plate Offsets (X,Y)-- [3:0-2-8,0-1-13], [4:0-5-12,0-2-0], [5:0-4-0,0-3-0]

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 0.66	Vert(LL)	-0.20	12-13	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.76	Vert(CT)	-0.32	12-13	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.03	8	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 220 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except*

6-8: 2x6 SP No.2

REACTIONS. (size) 13=0-3-8, 8=0-5-8

Max Horz 13=-356(LC 8)

Max Uplift 13=-426(LC 12), 8=-458(LC 13)

Max Grav 13=1460(LC 2), 8=1379(LC 20)

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

TOP CHORD 2-3=-932/422, 3-4=-707/398, 4-5=-1096/438, 5-6=-1595/497, 6-8=-1265/477

BOT CHORD 12-13=-249/665, 10-12=-123/866, 9-10=-250/1239, 8-9=-172/290

WEBS 2-13=-1184/447, 2-12=-147/429, 3-12=-138/329, 4-12=-420/237, 4-10=-212/622,

5-10=-688/403, 5-9=0/288, 6-9=-147/996

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-2-6, Zone1 3-2-6 to 10-9-8, Zone3 10-9-8 to 15-4-8, Zone2 15-4-8 to 19-8-4, Zone1 19-8-4 to 32-0-0 zone; cantilever left exposed ; end vertical 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=426, 8=458.
- 8) 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:

October 24,2025

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Job 4894417	Truss T08	Truss Type Piggyback Base	Qty 2	Ply 1	CURASCO RES.	T38959554
Builders FirstSource (Lake City,FL),	Lake City, FL - 32055,				8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:58 2025 Page 1	
ID:5r2frggregYyojbgsnrYiDyVSr7-CCFdUHXIE15XZ0u2JIYth33oQAz24ylw?viGtJyQXYt						
5-6-0 10-9-8 15-4-8 22-10-0 30-6-0 5-6-0 5-3-8 4-6-15 7-5-8 7-8-0						
Scale = 1:69.0						

Plate Offsets (X,Y)-- [3:0-2-8,0-1-13], [4:0-5-12,0-2-0], [5:0-4-0,0-3-0]

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 0.70	Vert(LL)	-0.20	11-12	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.76	Vert(CT)	-0.32	11-12	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.03	7	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 218 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
6-7: 2x6 SP No.2

REACTIONS. (size) 12=0-3-8, 7=0-5-8

Max Horz 12=-332(LC 8)
Max Uplift 12=-427(LC 12), 7=-398(LC 13)
Max Grav 12=1463(LC 2), 7=1276(LC 20)

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

TOP CHORD 2-3=-934/423, 3-4=-709/399, 4-5=-1101/440, 5-6=-1603/498, 6-7=-1161/417
BOT CHORD 11-12=-264/647, 9-11=-138/850, 8-9=-308/1253, 7-8=-140/251
WEBS 2-12=-1187/448, 2-11=-147/430, 3-11=-138/329, 4-11=-422/237, 4-9=-219/632,
5-9=-705/413, 5-8=0/285, 6-8=-177/1035

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-2-6, Zone1 3-2-6 to 10-9-8, Zone3 10-9-8 to 15-4-8, Zone2 15-4-8 to 19-8-4, Zone1 19-8-4 to 30-3-4 zone; cantilever left exposed ; end vertical 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=427, 7=398.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.

WEBS 1 Row at midpt 2-12, 4-11, 5-9

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

October 24,2025

 **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 the Truss Plate Institute (www.tpiinst.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

Job 4894417	Truss T09	Truss Type Piggyback Base	Qty 5	Ply 1	CURASCO RES.	T38959555
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Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:59 2025 Page 1

ID:5r2frgbregYyojbgsnrYiDyVSr7-hOp?hcYN_cDOB9TEt?46DGbxVaLbpPi3EZRqPlyQXYs

7-8-0 15-1-8 18-11-0 22-8-8 30-2-0 37-10-0
7-8-0 7-5-8 3-9-8 3-9-8 7-5-8 7-8-0

Scale = 1:75.5

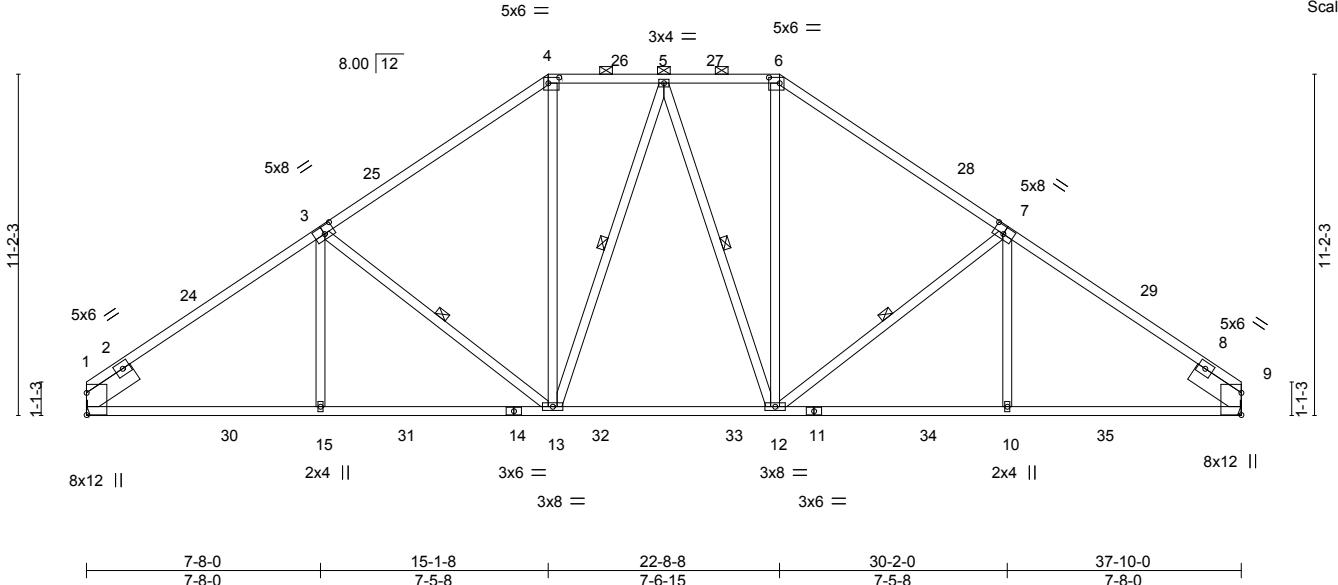


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [4:0-4-4,0-2-4], [6:0-4-4,0-2-4], [7:0-4-0,0-3-0]

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 0.80	Vert(LL)	-0.21	13-15	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.61	Vert(CT)	-0.39	13-15	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.16	9	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 243 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
4-6: 2x4 SP No.2
1-3,7-9: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except
2-0-0 oc purlins (4-7-8 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 9-6-6 oc bracing.
WEBS 1 Row at midpt 3-13, 5-13, 5-12, 7-12

REACTIONS. (size) 1=Mechanical, 9=Mechanical
Max Horz 1=322(LC 9)
Max Uplift 1=-534(LC 12), 9=-534(LC 13)
Max Grav 1=1728(LC 2), 9=1728(LC 2)

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

TOP CHORD 1-3=-233/726, 3-4=-1875/672, 4-5=-1481/647, 5-6=-1481/647, 6-7=-1875/672,
7-9=-233/726

BOT CHORD 1-15=-674/2002, 13-15=-675/2000, 12-13=-332/1502, 10-12=-458/1838, 9-10=-457/1840

WEBS 3-15=0/319, 3-13=-635/401, 4-13=-214/675, 5-13=-240/253, 5-12=-240/253,
6-12=-214/675, 7-12=-636/402, 7-10=0/319

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 C; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-9-6, Zone1 3-9-6 to 15-1-8, Zone2 15-1-8 to 20-5-12, Zone1 20-5-12 to 22-8-8, Zone2 22-8-8 to 28-0-11, Zone1 28-0-11 to 37-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=534, 9=534.
- 9) 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.
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document are not considered
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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:

October 24,2025

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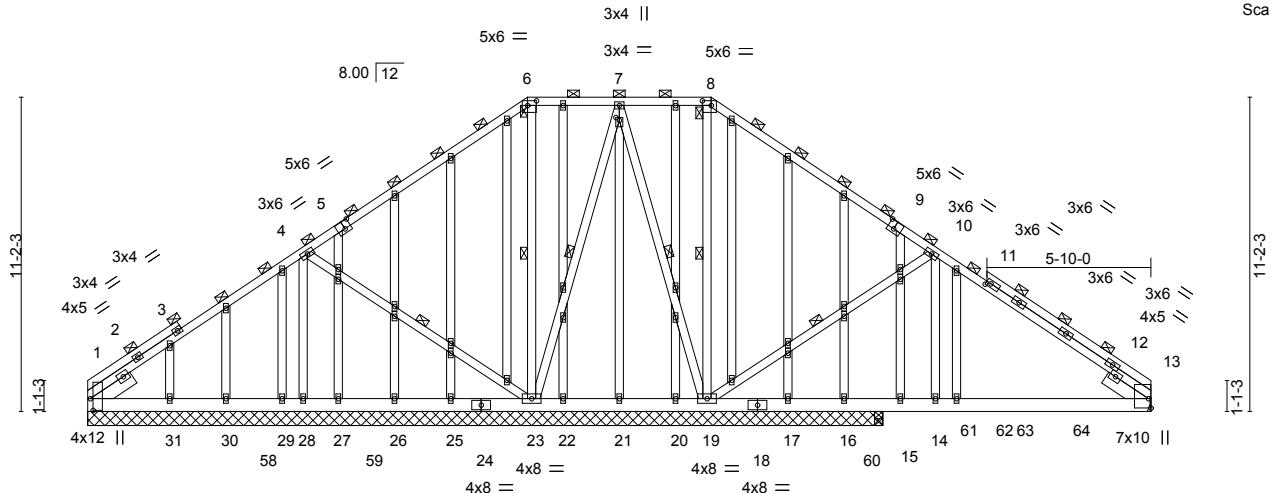
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959556
4894417	T09G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:01 2025 Page 1 ID:5r2frgbregYyojbgsrnYiDyVs7-dnxl6lZeWDT6QTdd?Q6alhgG8O_MH14MhtwwTeyQXYq

7-8-0 15-7-13 18-11-0 22-2-3 30-2-0 37-10-0
7-8-0 7-11-13 3-3-3 3-3-3 7-11-13 7-8-0

Scale = 1:82.0



7-8-0 15-7-13 22-2-3 28-3-8 30-2-0 37-10-0
7-8-0 7-11-13 6-6-6 6-1-5 1-10-8 7-8-0

Plate Offsets (X,Y)-- [1:0-5-0,0-1-3], [5:0-2-12,0-3-4], [6:0-3-12,0-2-0], [7:0-1-4,0-1-8], [8:0-3-12,0-2-0], [9:0-2-12,0-3-4], [11:0-2-0,0-1-8], [13:Edge,0-1-1]

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 0.86	Vert(LL)	0.12	13-14	>964	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.72	Vert(CT)	-0.14	13-14	>799	180	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.56	Horz(CT)	0.01	13	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 445 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
1-5,9-13: 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-8-5, Right 2x6 SP No.2 1-8-5

BRACING-

TOP CHORD 2-0-0 oc purlins (5-11-15 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 22-23,21-22,20-21,19-20.

WEBS 1 Row at midpt 4-23, 6-23, 7-23, 7-19, 8-19, 10-19

REACTIONS.

All bearings 28-3-8 except (jt=length) 13=Mechanical, 15=0-3-8.

(lb) - Max Horz 1=-329(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) 1, 29, 30, 16 except 28=-276(LC 29),
23=-331(LC 8), 19=-663(LC 9), 13=-814(LC 9), 31=-174(LC 8), 15=-212(LC 30)

Max Grav All reactions 250 lb or less at joint(s) 1, 21, 22, 25, 26, 27, 29, 30, 20,
17, 16 except 28=410(LC 15), 23=520(LC 21), 19=1093(LC 36), 13=1459(LC 36),
31=259(LC 35), 15=279(LC 16)

FORCES.

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

TOP CHORD 1-4=-316/168, 10-13=-1068/546

BOT CHORD 22-23=-194/326, 21-22=-194/326, 20-21=-194/326, 19-20=-194/326, 17-19=-347/817,
16-17=-347/817, 15-16=-347/817, 14-15=-347/817, 13-14=-362/847

WEBS 4-28=-406/294, 6-23=-366/238, 8-19=-362/212, 10-19=-1174/813, 10-14=-332/643

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 29, 30, 16 except (jt=lb) 28=276, 23=331, 19=663, 13=814, 31=174, 15=212.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

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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:

October 24,2025

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

Job 4894417	Truss T09G	Truss Type GABLE	Qty 1	Ply 1	CURASCO RES.	T38959556
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:01 2025 Page 2
ID:5r2frgbregYyojbgsnrYiDyVSr7-dnxl6lZeWDT6QTdd?Q6alhgG8O_MH14MhtwwTeyQXYq

NOTES-

- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 58 lb down and 60 lb up at 29-10-12, 17 lb down and 25 lb up at 31-2-12, 274 lb down and 215 lb up at 33-2-12, and 274 lb down and 215 lb up at 35-2-12, and 278 lb down and 211 lb up at 37-5-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-6=-60, 6-8=-60, 8-13=-60, 1-13=-20

Concentrated Loads (lb)

Vert: 14=-2(B) 13=-277(B) 61=-17 63=-273(B) 64=-273(B)



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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959557
4894417	T10	Piggyback Base	2	1	Job Reference (optional)	

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:02 2025 Page 1

ID:5r2frgbregYyojbgsnrYiDyVSr7-5zV7KeaGHbx2dCpY8dprvDSzOMR0IfVwXgU04yQXYp

7-8-0 15-1-8 18-11-0 22-8-8 30-2-0 37-10-0 39-4-0
7-8-0 7-5-8 3-9-8 3-9-8 7-5-8 7-8-0 1-6-0

Scale = 1:76.6

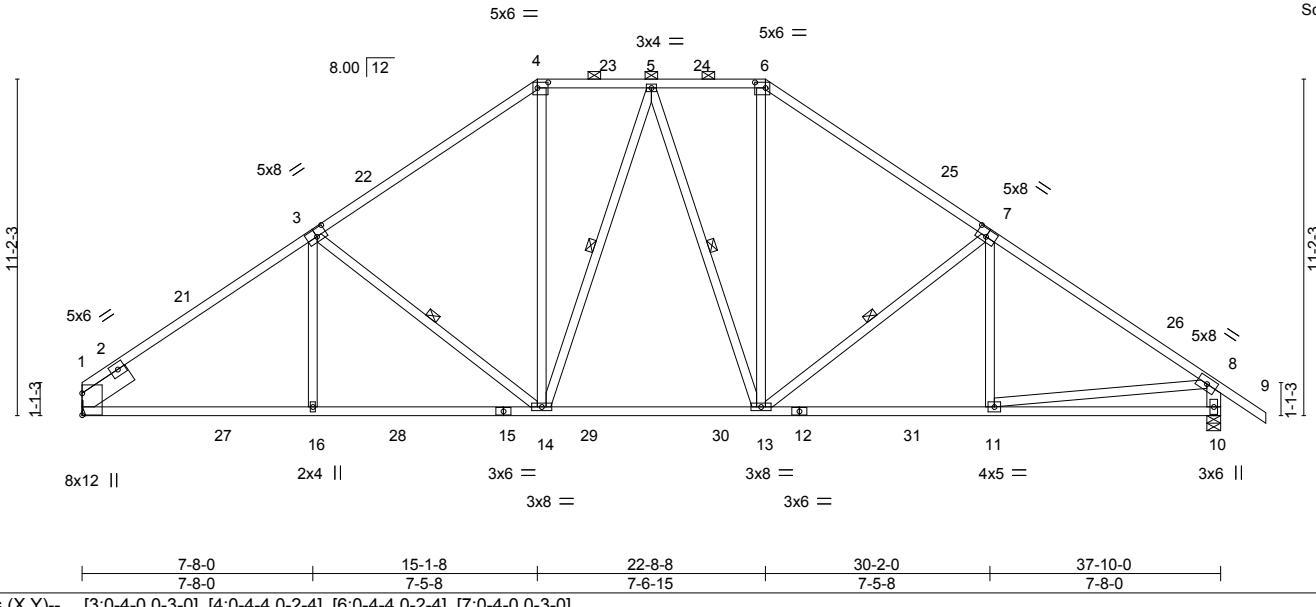


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [4:0-4-4,0-2-4], [6:0-4-4,0-2-4], [7:0-4-0,0-3-0]

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 0.79	Vert(LL)	-0.19 14-16	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.60	Vert(CT)	-0.35 14-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.57	Horz(CT)	-0.08 1	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 252 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
4-6,7-9: 2x4 SP No.2
1-3: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
8-10: 2x6 SP No.2
SLIDER Left 2x8 SP 2400F 2.0E 1-11-8

REACTIONS.

(size) 1=Mechanical, 10=0-5-8
Max Horz 1=-367(LC 8)
Max Uplift 1=-532(LC 12), 10=-590(LC 13)
Max Grav 1=1708(LC 2), 10=1772(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2302/722, 3-4=-1843/667, 4-5=-1454/643, 5-6=-1435/637, 6-7=-1831/658,
7-8=-2245/693, 8-10=-1651/612
BOT CHORD 1-16=-629/2003, 14-16=-629/2001, 13-14=-300/1467, 11-13=-409/1781, 10-11=-201/348
WEBS 3-16=0/320, 3-14=-637/402, 4-14=-210/660, 5-14=-225/252, 5-13=-259/256,
6-13=-216/673, 7-13=-610/385, 8-11=-277/1491

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-9-6, Zone1 3-9-6 to 15-1-8, Zone2 15-1-8 to 20-5-12, Zone1 20-5-12 to 22-8-8, Zone2 22-8-8 to 28-0-11, Zone1 28-0-11 to 39-4-0 zone; end vertical 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, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=532, 10=590.
- 9) 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
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Date:

October 24,2025

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MiTek®
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959558
4894417	T11	Piggyback Base	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:03 2025 Page 1

ID:5r2frgbregYyojbgsnrYiDyVSr7-Z93WX_bu2rjpfm?6r82O6mgDBkh9af8BP1YXyQXYo

1-6-0 7-8-0 15-1-8 20-11-11 26-9-14 32-8-0 38-0-0 42-10-0 44-4-0
1-6-0 7-8-0 7-5-8 5-10-3 5-10-3 5-10-3 5-4-0 4-10-0 1-6-0

Scale = 1:89.0

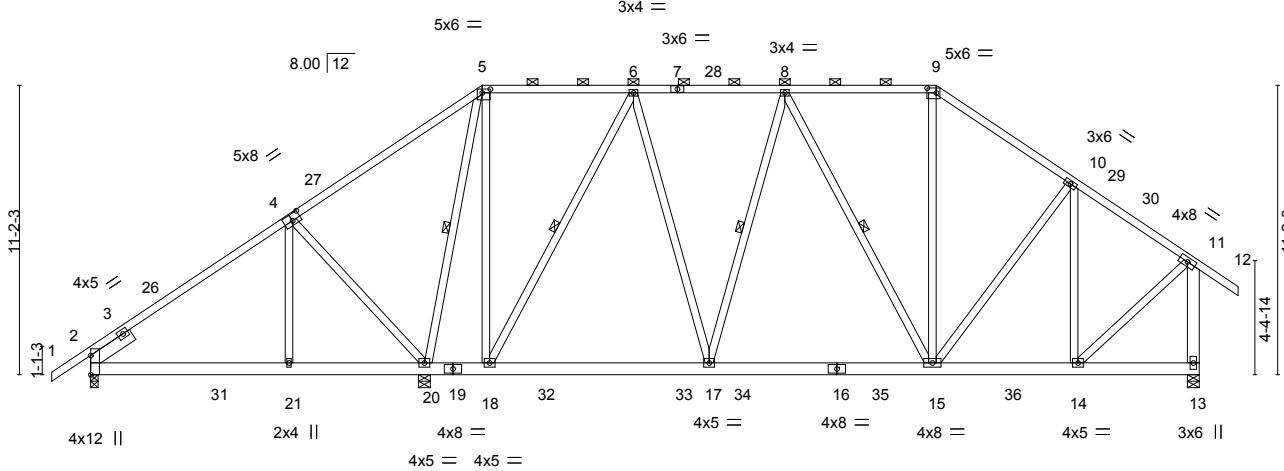
7-8-0 12-10-12 15-1-8 23-10-12 32-8-0 38-0-0 42-10-0
7-8-0 5-2-12 2-2-12 8-9-4 8-9-4 5-4-0 4-10-0

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.63	Vert(LL)	-0.08 17-18	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.47	Vert(CT)	-0.14 17-18	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.03 13	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 356 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 11-13: 2x6 SP No.2
 SLIDER Left 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-1 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-2 max.): 5-9.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-20, 6-18, 8-17, 8-15

REACTIONS. (size) 2=0-3-8, 20=0-5-8, 13=0-5-8

Max Horz 2=438(LC 11)
 Max Uplift 2=-306(LC 12), 20=-596(LC 9), 13=-530(LC 13)
 Max Grav 2=737(LC 27), 20=1815(LC 2), 13=1472(LC 2)

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

TOP CHORD 2-4=-665/478, 4-5=-262/308, 5-6=-376/366, 6-8=-968/506, 8-9=-894/503,
 9-10=-1150/519, 10-11=-987/415, 11-13=-1395/536
 BOT CHORD 2-21=-471/658, 20-21=-470/656, 18-20=-288/444, 17-18=-405/820, 15-17=-404/998,
 14-15=-253/771
 WEBS 4-21=-234/313, 4-20=-608/536, 5-20=-1265/302, 5-18=-293/1037, 6-18=-971/433,
 6-17=-166/584, 8-15=-288/273, 9-15=-115/353, 10-14=-506/228, 11-14=-287/1022

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 C; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 2-9-6, Zone1 2-9-6 to 15-1-8, Zone2 15-1-8 to 20-11-11, Zone1 20-11-11 to 32-8-0, Zone2 32-8-0 to 38-8-11, Zone1 38-8-11 to 44-4-0 zone; end vertical right exposed; porch left 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=306, 20=596, 13=530.
- 8) 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:

October 24, 2025

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959559
4894417	T11G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

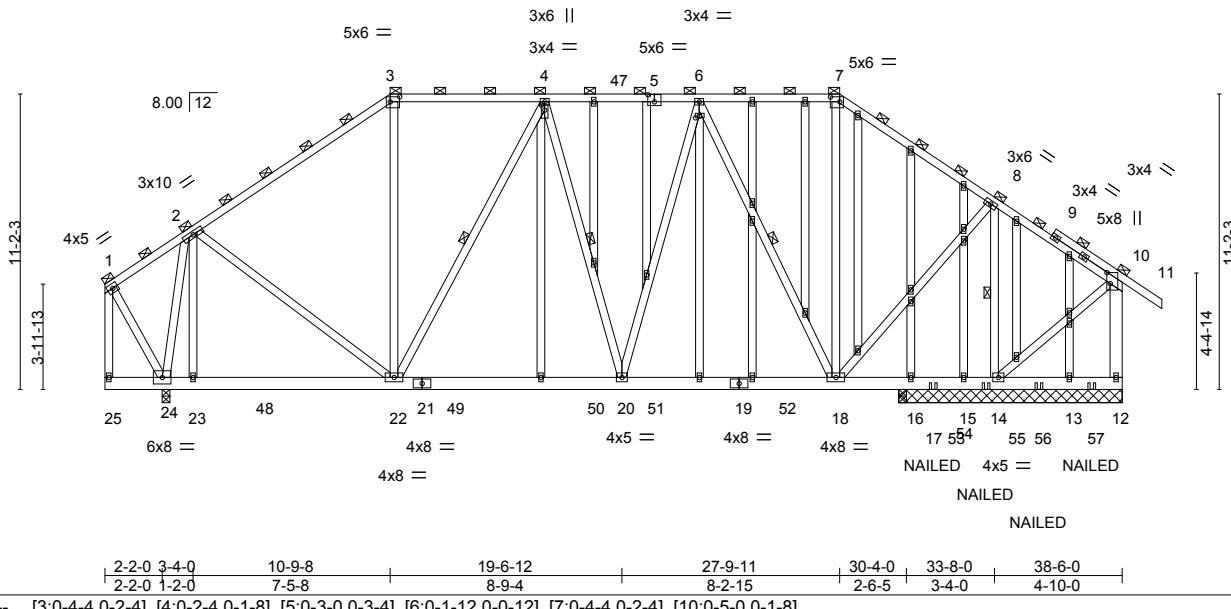
Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:04 2025 Page 1

ID:5r2frgbrgYyojbsnrYiDyVSr7-1LduKcWp8rgHxLCgZfHwKlnlb4nUb8oNr9b4zyQXYn

3-4-0 10-9-8 16-7-11 22-5-14 27-9-11 33-8-0 38-6-0 40-0-0
 3-4-0 7-5-8 5-10-3 5-10-3 5-3-13 5-10-5 4-10-0 1-6-0

Scale = 1:87.2



2-2-0 3-4-0 10-9-8 19-6-12 27-9-11 30-4-0 33-8-0 38-6-0
 2-2-0 1-2-0 7-5-8 8-9-4 8-2-15 2-6-5 3-4-0 4-10-0

Plate Offsets (X,Y)-- [3:0-4-4,0-2-4], [4:0-2-4,0-1-8], [5:0-3-0,0-3-4], [6:0-1-12,0-0-12], [7:0-4-4,0-2-4], [10:0-5-0,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.83	Vert(LL)	-0.07 18-20	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.48	Vert(CT)	-0.12 18-20	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.80	Horz(CT)	0.02 17	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 469 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 10-12: 2x6 SP No.2
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD 2-0-0 oc purlins (3-11-11 max.), except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 4-22, 4-20, 6-18, 8-14

REACTIONS. All bearings 8-5-8 except (jt=length) 24=0-3-8, 17=0-3-8.

(lb) - Max Horz 24=370(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 15 except 24=-522(LC 8), 14=-744(LC 9), 12=-105(LC 9),
 13=-199(LC 4), 16=-883(LC 17), 17=-560(LC 30)
 Max Grav All reactions 250 lb or less at joint(s) 15 except 24=1591(LC 2), 14=1583(LC 2), 12=305(LC 22),
 13=284(LC 23), 16=555(LC 30), 17=972(LC 2)

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

TOP CHORD 2-3=-1103/448, 3-4=-826/472, 4-6=-1003/448, 6-7=-572/351, 7-8=-774/329
 BOT CHORD 23-24=-350/467, 22-23=-350/467, 20-22=-477/996, 18-20=-410/897
 WEBS 2-24=-1327/433, 2-22=-250/704, 3-22=-74/301, 4-22=-415/313, 6-20=-138/437,
 6-18=-777/391, 8-18=-295/879, 8-14=-1334/523

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; cantilever left exposed; end vertical right exposed; 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 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 100 lb uplift at joint(s) 15 except (jt=lb) 24=522, 14=744, 12=105, 13=199, 16=883, 17=560.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

This item has been
 digitally signed and
 sealed by Velez, Joaquin, PE
 on the date indicated here.
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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:

October 24, 2025

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 16023 Swingley Ridge Rd.
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 314.434.1200 / MiTek-US.com

Job 4894417	Truss T11G	Truss Type GABLE	Qty 1	Ply 1	CURASCO RES.	T38959559
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:04 2025 Page 2
ID:5r2frgbregYyojbgsnrYiDyVSr7-1LduKcWp8rgHxLCgZfHwKlnlb4nUb8oNr9b4zyQXYn

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-60, 3-7=-60, 7-10=-60, 10-11=-60, 12-25=-20

Concentrated Loads (lb)

Vert: 54=-161(F) 55=-161(F) 56=-161(F) 57=-162(F)



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

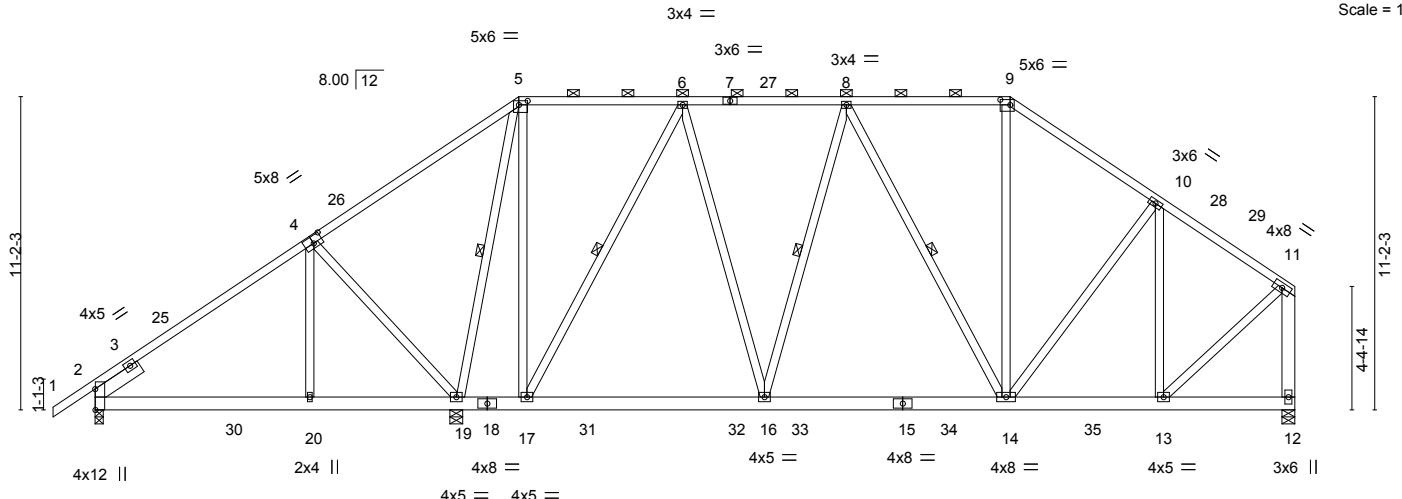
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TP1 Quality Criteria and DSB-22](#) available from Truss Plate Institute (www.tpinst.org) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association (www.sbccomponents.com)

Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959560
4894417	T12	Piggyback Base	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:05 2025 Page 1 ID:5r2frggregYyojbgsnrYiDyVSr7-VYAGygd8aSzXv4woEGAWTXr?j?Q9D33ycVu8dPyQXYm

1-6-0 7-8-0 15-1-8 20-11-11 26-9-14 32-8-0 38-0-0 42-10-0
1-6-0 7-8-0 7-5-8 5-10-3 5-10-3 5-10-3 5-4-0 4-10-0

Scale = 1:82.3



7-8-0 12-10-12 15-1-8 23-10-12 32-8-0 38-0-0 42-10-0
7-8-0 5-2-12 2-2-12 8-9-4 8-9-4 5-4-0 4-10-0

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.63	Vert(LL)	-0.08 16-17	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.47	Vert(CT)	-0.14 16-17	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.03 12	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 353 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
11-12: 2x6 SP No.2
SLIDER Left 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-7 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-0 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-19, 6-17, 8-16, 8-14

REACTIONS. (size) 2=0-3-8, 19=0-5-8, 12=0-5-8

Max Horz 2=425(LC 11)
Max Uplift 2=-302(LC 12), 19=-598(LC 9), 12=-472(LC 13)
Max Grav 2=737(LC 27), 19=1816(LC 2), 12=1383(LC 2)

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

TOP CHORD 2-4=-665/470, 4-5=-267/299, 5-6=-378/360, 6-8=-971/499, 8-9=-899/492, 9-10=-1157/511, 10-11=-993/396, 11-12=-1305/477
BOT CHORD 2-20=-483/644, 19-20=-482/642, 17-19=-300/430, 16-17=-417/823, 14-16=-415/1002, 13-14=-304/781
WEBS 4-20=-235/312, 4-19=-607/537, 5-19=-1267/304, 5-17=-292/1039, 6-17=-973/432, 6-16=-165/586, 8-14=-287/274, 9-14=-113/355, 10-13=-509/251, 11-13=-320/1025

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 C; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 2-9-6, Zone1 2-9-6 to 15-1-8, Zone2 15-1-8 to 20-11-11, Zone1 20-11-11 to 32-8-0, Zone2 32-8-0 to 38-8-11, Zone1 38-8-11 to 42-7-4 zone; end vertical left and right exposed; porch left 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=302, 19=598, 12=472.
- 8) 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:

October 24,2025

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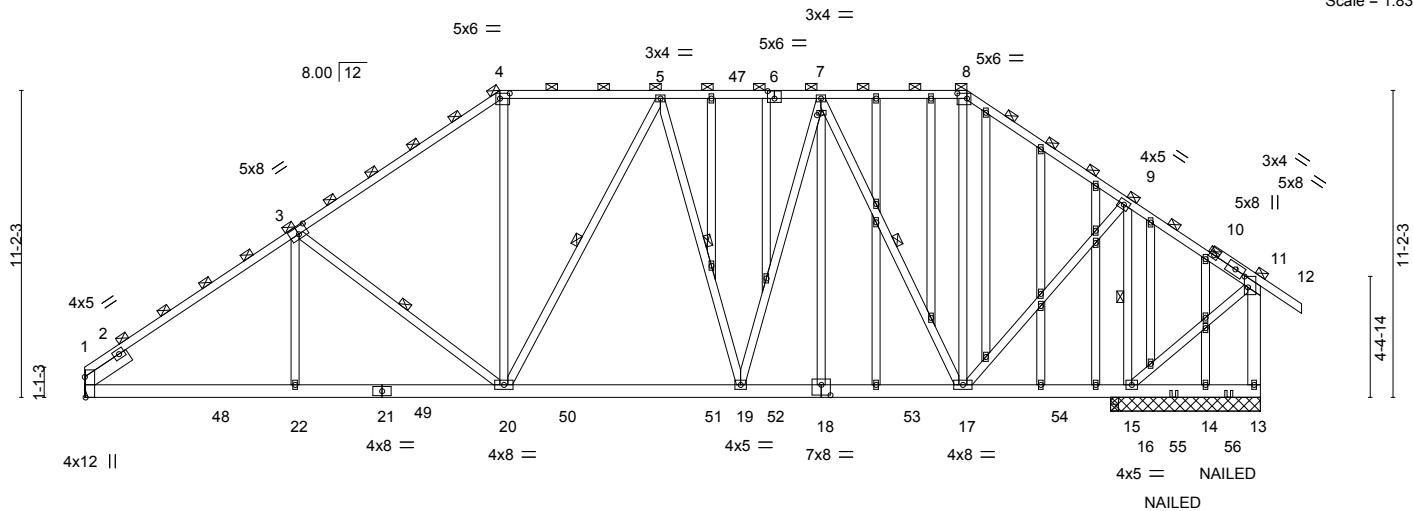
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 4894417	Truss T12G	Truss Type GABLE	Qty 1	Ply 1	CURASCO RES.	T38959561
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:07 2025 Page 1 ID:5r2frgbregYyojbgsnrYiDyVsr7-Swi0NMeP63DF8O4nLhD_YywMsp02hyXE3pNFhlyQXYk

7-8-0 15-1-8 20-11-11 26-9-14 32-1-11 38-0-0 42-10-0 44-4-0
7-8-0 7-5-8 5-10-3 5-10-3 5-3-13 5-10-5 4-10-0 1-6-0

Scale = 1:83.9



7-8-0 15-1-8 23-10-12 32-1-11 37-8-0 38-0-0 42-10-0
7-8-0 7-5-8 8-9-4 8-2-15 5-6-5 0-4-0 4-10-0

Plate Offsets (X,Y)-- [1:0-8-15,Edge], [3:0-4-0,0-3-0], [4:0-4-4,0-2-4], [6:0-3-0,0-3-4], [7:0-1-12,0-0-12], [8:0-4-4,0-2-4], [11:0-4-12,0-1-8], [18:0-4-0,0-4-8]

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr NO Code FBC2023/TPI2014	CSI. TC 0.52 BC 0.89 WB 0.82 Matrix-MS	DEFL. Vert(LL) -0.12 19-20 >999 240 Vert(CT) -0.21 20-22 >999 180 Horz(CT) 0.05 16 n/a n/a	in (loc) l/defl L/d	PLATES MT20	GRIP 244/190
					Weight: 456 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
3-4-1-3: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
11-13: 2x6 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD 2-0-0 oc purlins (4-5-14 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-20, 5-20, 5-19, 7-17, 9-15

REACTIONS.

All bearings 5-5-8 except (jt=length) 1=Mechanical, 16=0-3-8.
(lb) - Max Horz. 1=412(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) except 1=565(LC 8), 15=-825(LC 9),
13=-341(LC 23), 14=-200(LC 4), 16=-107(LC 30)
Max Grav All reactions 250 lb or less at joint(s) 13 except 1=1675(LC 2), 15=2015(LC 2), 14=300(LC 23), 16=557(LC 15)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2260/781, 3-4=-1815/713, 4-5=-1426/690, 5-7=-1328/575, 7-8=-651/387,
8-9=-868/371, 9-11=-110/422, 11-13=-113/389

BOT CHORD 1-22=-696/1935, 20-22=-696/1933, 19-20=-572/1414, 17-19=-466/1133, 16-17=-331/176,
15-16=-331/176

WEBS 3-22=0/286, 3-20=-658/402, 4-20=-145/632, 5-20=-158/294, 5-19=-393/308,
7-19=-255/757, 7-17=-1140/469, 9-17=-422/1436, 9-15=-1989/668, 11-15=-409/169

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical right exposed; 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 565 lb uplift at joint 1, 825 lb uplift at joint 15, 341 lb uplift at joint 13, 200 lb uplift at joint 14 and 107 lb uplift at joint 16.

Caution: This page 2 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:

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

Job 4894417	Truss T12G	Truss Type GABLE	Qty 1	Ply 1	CURASCO RES.	T38959561
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:07 2025 Page 2
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NOTES-

- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-60, 4-8=-60, 8-11=-60, 11-12=-60, 13-43=-20

Concentrated Loads (lb)

Vert: 55=-161(B) 56=-162(B)



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/TP1 Quality Criteria and DSB-22](#) available from Truss Plate Institute (www.tpinst.org) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association (www.sbccomponents.com)

Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959562
4894417	T13	Piggyback Base	1	1	Job Reference (optional)	

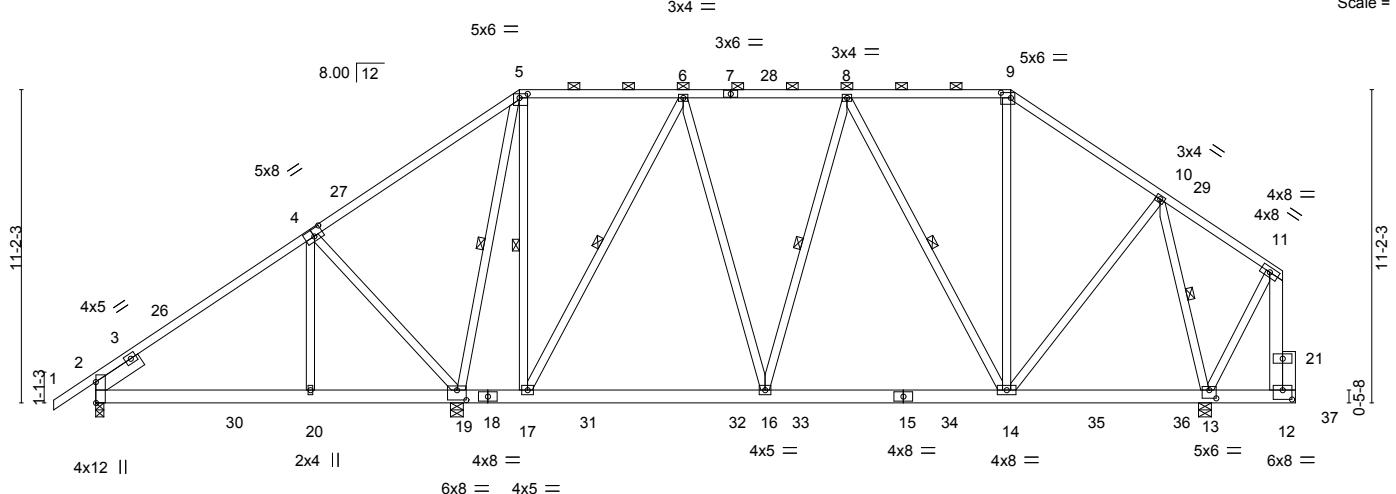
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:08 2025 Page 1

ID:5r2frgbregYyobjgsmrYIDyVSr7-w7sPahf1tNL6mYfzvOkD5ATUVCRgQQKOIT7oDkyQXYj

1-6-0 7-8-0 15-1-8 20-11-11 26-9-14 32-8-0 38-0-0 42-4-8 42-10-0
1-6-0 7-8-0 7-5-8 5-10-3 5-10-3 5-10-3 5-4-0 4-4-8 0-5-8

Scale = 1:82.3



7-8-0 12-10-12 15-1-8 23-10-12 32-8-0 39-7-4 42-4-8
7-8-0 5-2-12 2-2-12 8-9-4 8-9-4 6-11-4 39-10-0 0-2-12 2-6-8

Plate Offsets (X,Y)-- [2:0-8-15,Edge], [4:0-4-0,0-3-0], [5:0-3-8,0-1-12], [9:0-4-4,0-2-4], [12:0-4-0,0-4-0], [13:0-3-0,0-3-8], [19:0-4-0,0-4-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.72	Vert(LL)	0.08 16-17	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.48	Vert(CT)	-0.13 16-17	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.72	Horz(CT)	-0.02 13	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 355 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
11-12: 2x6 SP No.2
OTHERS 2x6 SP No.2
SLIDER Left 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-19, 5-17, 6-17, 8-16, 8-14, 10-13

REACTIONS. (size) 2=0-3-8, 19=0-5-8, 13=0-5-8

Max Horz 2=430(LC 11)
Max Uplift 2=-301(LC 12), 19=-847(LC 9), 13=-917(LC 8)
Max Grav 2=739(LC 27), 19=1638(LC 2), 13=1808(LC 2)

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

TOP CHORD 2-4=-669/470, 4-5=-259/339, 5-6=-344/451, 6-8=-794/684, 8-9=-584/560,
9-10=-780/597, 10-11=-165/304, 11-12=-224/339
BOT CHORD 2-20=-508/618, 19-20=-507/616, 17-19=-380/332, 16-17=-563/694, 14-16=-566/778
WEBS 4-20=-177/316, 4-19=-620/487, 5-19=-1104/550, 5-17=-545/880, 6-17=-772/546,
6-16=-224/421, 8-14=-449/387, 10-14=-469/693, 10-13=-1336/848, 11-13=-357/291

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 2-8-14, Zone1 2-8-14 to 15-1-8, Zone2 15-1-8 to 20-11-11, Zone1 20-11-11 to 32-8-0, Zone2 32-8-0 to 38-7-15, Zone1 38-7-15 to 42-1-12 zone; cantilever right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 301 lb uplift at joint 2, 847 lb uplift at joint 19 and 917 lb uplift at joint 13.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 239 lb down and 159 lb up at 42-4-8, and 114 lb down and 76 lb up at 42-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

 **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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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:

October 24, 2025

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

Job 4894417	Truss T13	Truss Type Piggyback Base	Qty 1	Ply 1	CURASCO RES.	T38959562
Builders FirstSource (Lake City,FL),	Lake City, FL - 32055,				8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:08 2025 Page 2 ID:5r2frgbregYyojbgsnrYIDyVSr7-w7sPahf1tNL6mYfzvOkD5ATUVCRgQQKOIT7oDkyQXYj	

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-5=-60, 5-9=-60, 9-11=-60, 12-22=-20

Concentrated Loads (lb)

Vert: 12=-210(F) 37=-100



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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959563
4894417	T14	Piggyback Base	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL)

Lake City, FL - 32055,

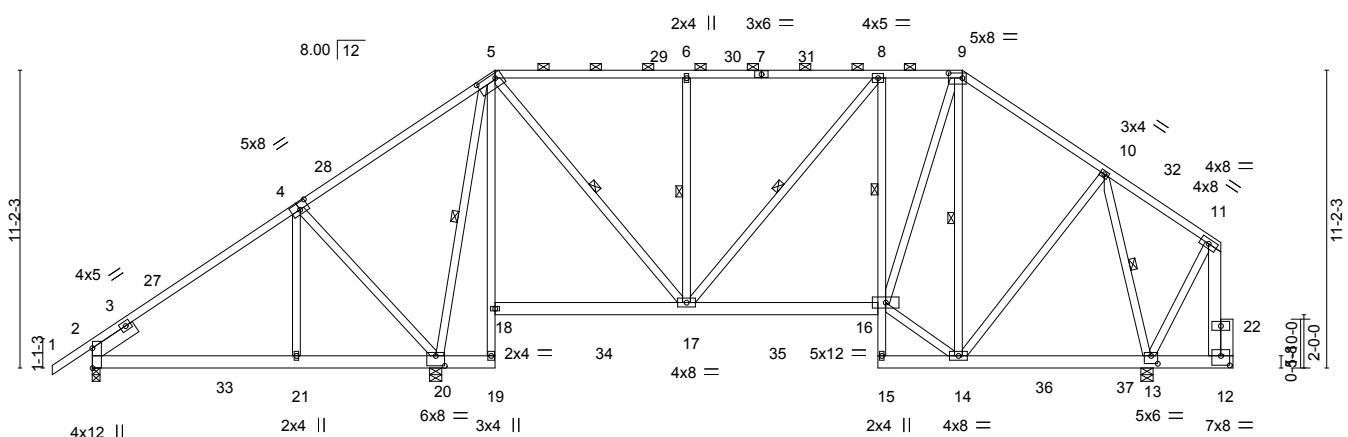
8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:09 2025 Page 1

ID:5r2frgbregYyojbgsnrYiDyVs7-OJQno1gfehUzNIE9T6FSdN0fucpa9s7XXsLmAyQXYi

1-6-0	7-8-0	15-1-8	22-3-12	29-6-0	32-8-0	38-0-0	42-4-8	42-10-0
1-6-0	7-8-0	7-5-8	7-2-4	7-2-4	3-2-0	5-4-0	4-4-8	0-5-8

Scale = 1:86.5

6x12 MT20HS //



7-8-0	12-10-12	15-1-8	22-3-12	29-6-0	32-8-0	39-7-4	42-4-8
7-8-0	5-2-12	2-2-12	7-2-4	7-2-4	3-2-0	6-11-4	39-10-0
						0-2-12	2-8-8

Plate Offsets (X,Y)-- [2:0-8-15,Edge], [4:0-4-0,0-3-0], [5:0-8-12,0-2-0], [9:0-6-4,0-2-4], [12:0-4-0,0-4-4], [13:0-3-0,0-3-8], [20:0-4-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.74	Vert(LL)	0.09	17-18	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.38	Vert(CT)	-0.11	16-17	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.82	Horz(CT)	-0.11	13	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 366 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
5-19,8-15: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
11-12: 2x6 SP No.2
OTHERS 2x6 SP No.2
SLIDER Left 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 16-17,13-14.
WEBS 1 Row at midpt 8-16

REACTIONS. (size) 2=0-3-8, 20=0-5-8, 13=0-5-8

Max Horz 2=631(LC 11)
Max Uplift 2=-253(LC 12), 20=-1431(LC 9), 13=-888(LC 8)
Max Grav 2=598(LC 20), 20=2037(LC 2), 13=1651(LC 28)

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

TOP CHORD 2-4=-618/487, 4-5=-606/409, 5-6=-663/736, 6-8=-663/736, 8-9=-709/674, 9-10=-647/596, 10-11=-171/356, 11-12=-230/469
BOT CHORD 2-21=-289/247, 20-21=-287/246, 16-17=-528/720, 8-16=-330/213
WEBS 4-21=-233/352, 4-20=-642/538, 5-20=-1423/1115, 5-17=-697/1040, 6-17=-488/342, 14-16=-388/585, 9-16=-508/760, 9-14=-573/370, 10-14=-332/569, 10-13=-1169/757, 11-13=-396/291

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 2-8-14, Zone1 2-8-14 to 15-1-8, Zone2 15-1-8 to 21-1-7, Zone1 21-1-7 to 32-8-0, Zone2 32-8-0 to 38-7-15, Zone1 38-7-15 to 42-1-12 zone; cantilever right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 253 lb uplift at joint 2, 1431 lb uplift at joint 20 and 888 lb uplift at joint 13.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 322 lb down and 159 lb up at 42-4-8, and 154 lb down and 76 lb up at 42-4-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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:

October 24,2025

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

Job 4894417	Truss T14	Truss Type Piggyback Base	Qty 2	Ply 1	CURASCO RES.	T38959563
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:09 2025 Page 2
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NOTES-

11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-5=-60, 5-9=-60, 9-11=-60, 19-23=-20, 16-18=-20, 12-15=-20

Concentrated Loads (lb)

Vert: 12=-310(F=-210)



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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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959564
4894417	T15	Piggyback Base	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

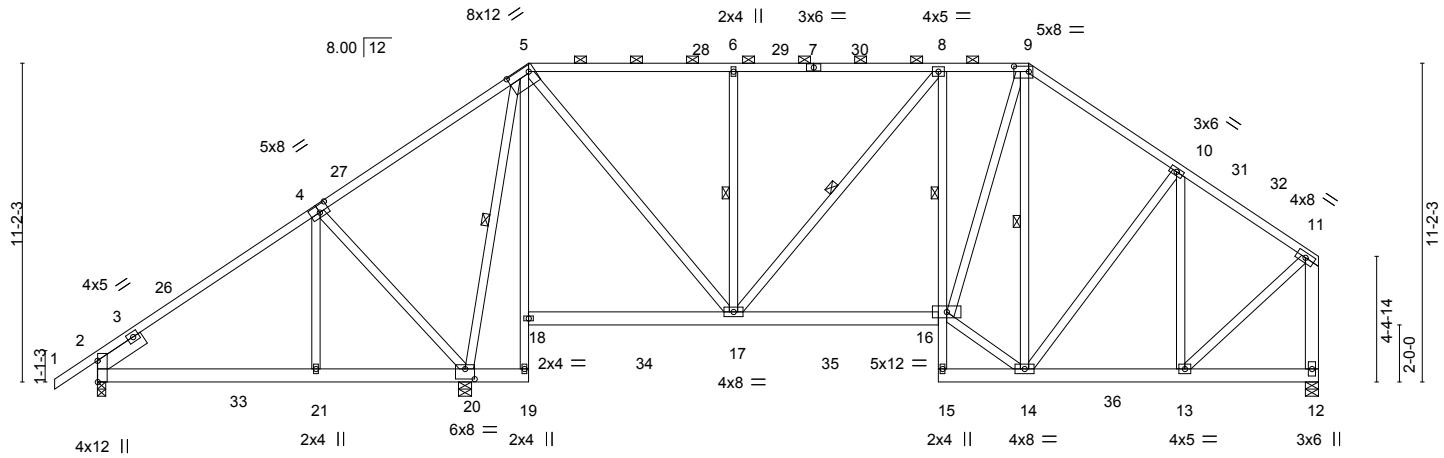
Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:10 2025 Page 1

ID:5rfrgbrgYyojbgsnrYiDyVSr7-sV_9?NgHP_cq?spL0pmhAbYrt09uuHLhlnclvldyQXYh

1-6-0	7-8-0	15-1-8	22-3-12	29-6-0	32-8-0	38-0-0	42-10-0
1-6-0	7-8-0	7-5-8	7-2-4	7-2-4	3-2-0	5-4-0	4-10-0

Scale = 1:80.8



7-8-0	12-10-12	15-1-8	22-3-12	29-6-0	32-8-0	38-0-0	42-10-0
7-8-0	5-2-12	2-2-12	7-2-4	7-2-4	3-2-0	5-4-0	4-10-0

Plate Offsets (X,Y)-- [2:0-8-15,Edge], [4:0-4-0,0-3-0], [5:0-9-8,0-2-8], [9:0-6-4,0-2-4], [20:0-4-0,0-4-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.66	Vert(LL)	-0.07	16-17	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.37	Vert(CT)	-0.13	16-17	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.95	Horz(CT)	0.08	12	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 364 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
5-19-8-15: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
11-12: 2x6 SP No.2
SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS. (size) 2=0-3-8, 12=0-5-8, 20=0-5-8

Max Horz 2=425(LC 11)
Max Uplift 2=-247(LC 12), 12=-467(LC 13), 20=-913(LC 9)
Max Grav 2=448(LC 20), 12=1231(LC 28), 20=2235(LC 2)

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

TOP CHORD 2-4=-498/594, 4-5=-317/530, 5-6=-808/587, 6-8=-808/587, 8-9=-985/574,
9-10=-978/552, 10-11=-901/422, 11-12=-1159/470
BOT CHORD 2-21=-314/214, 20-21=-311/212, 16-17=-314/992, 13-14=-284/689
WEBS 4-21=-258/353, 4-20=-657/555, 5-20=-1614/627, 5-17=-383/1265, 6-17=-488/342,
8-17=-321/160, 14-16=-261/902, 9-16=-357/767, 9-14=-399/264, 10-13=-443/257,
11-13=-316/904

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 2-9-6, Zone1 2-9-6 to 14-11-12, Zone2 14-11-12 to 21-0-7, Zone1 21-0-7 to 32-8-0, Zone2 32-8-0 to 38-8-11, Zone1 38-8-11 to 42-7-4 zone; end vertical left and right exposed; porch left 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) The Fabrication Tolerance at joint 5 = 16%
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 247 lb uplift at joint 2, 467 lb uplift at joint 12 and 913 lb uplift at joint 20.
- 9) 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.6812
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

October 24, 2025

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Job 4894417	Truss T16	Truss Type Common Girder	Qty 1	Ply 2	CURASCO RES.	T38959565
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Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:11 2025 Page 1

ID:5r2frgbregYyojbgsnrYiDyVSr7-KiYXDjhvAlkh?OYaXHwio5y5QRmdn7q_RLSq3yQXYg

3-11-4 7-7-0 11-2-12 15-2-0
3-11-4 3-7-12 3-7-12 3-11-4

4x6 ||

Scale = 1:40.3

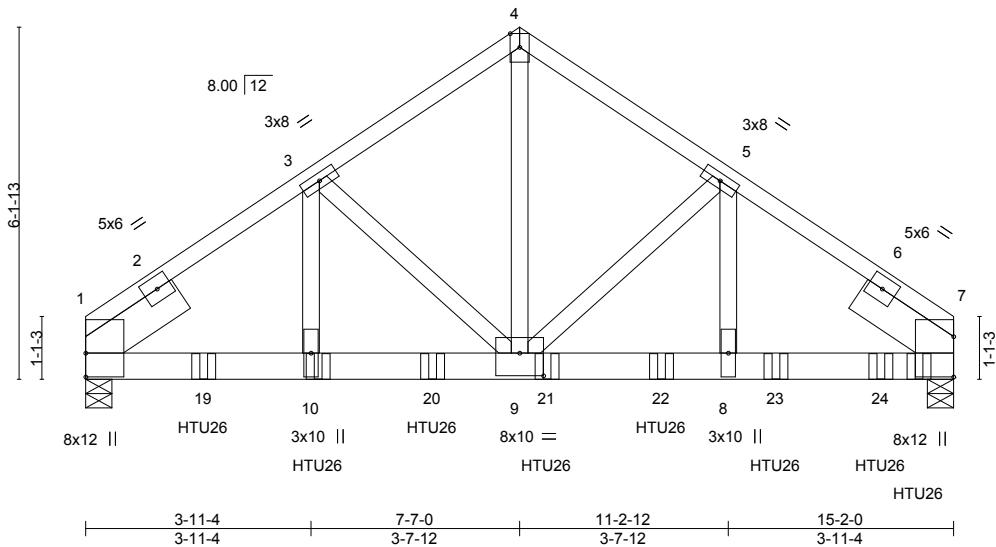


Plate Offsets (X,Y)-- [9:0-5-0,0-4-12]

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr NO Code FBC2023/TPI2014	CSI. TC 0.95 BC 0.59 WB 0.72 Matrix-MS	DEFL. Vert(LL) -0.09 9-10 >999 240 Vert(CT) -0.16 9-10 >999 180 Horz(CT) 0.03 7 n/a n/a	PLATES MT20	GRIP 244/190
				Weight: 211 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3 *Except*
4-9: 2x4 SP No.2
SLIDER Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8

REACTIONS. (size) 1=0-5-8, 7=0-5-8

Max Horz 1=161(LC 5)
Max Uplift 1=-2008(LC 8), 7=-2747(LC 9)
Max Grav 1=6214(LC 2), 7=8422(LC 2)

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

TOP CHORD 1-3=-7453/2426, 3-4=-5907/1975, 4-5=-5914/1978, 5-7=-7872/2565
BOT CHORD 1-10=-2006/6037, 9-10=-2006/6037, 8-9=-2038/6421, 7-8=-2038/6421
WEBS 4-9=-2024/6189, 5-9=-2050/798, 5-8=-808/2523, 3-9=-1530/625, 3-10=-634/2010

NOTES-

- 1) 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 0-6-0 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 C; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2008 lb uplift at joint 1 and 2747 lb uplift at joint 7.
- 9) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 14-6-12 to connect truss(es) to back face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.

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:

October 24,2025

Continued on page 2

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Job 4894417	Truss T16	Truss Type Common Girder	Qty 1	Ply 2	CURASCO RES.	T38959565
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:11 2025 Page 2
ID:5r2frgbregYyojbgsnrYiDyVs7-KiYXDjhvAlkh?OYaXHwio5y5QRmdn7q_RLSq3yQXYg

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 11-15=-20

Concentrated Loads (lb)

Vert: 10=-1493(B) 17=-1453(B) 19=-1493(B) 20=-1482(B) 21=-1482(B) 22=-1493(B) 23=-1493(B) 24=-1493(B)



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Job 4894417	Truss T16G	Truss Type Common Supported Gable	Qty 1	Ply 1	CURASCO RES.	T38959566
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Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:11 2025 Page 1

ID:5r2frgbregYyojbgsnrYiDyVs7-KiYXDjhvAlkh?OYaXHwio56XQaLdxlq_RLSq3yQXYg

-1-6-0 7-7-0 15-2-0 16-8-0
1-6-0 7-7-0 7-7-0 1-6-0

Scale = 1:40.4

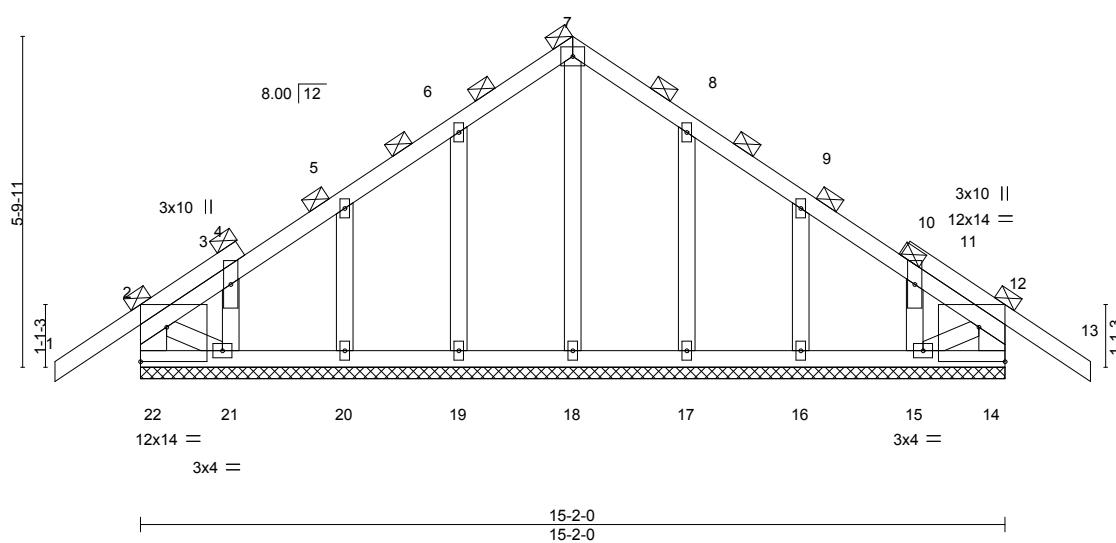


Plate Offsets (X,Y)-- [12:Edge,0-7-4], [22:Edge,0-7-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29	Vert(LL)	-0.01	13	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.02	13	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	14	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S						Weight: 98 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
2-21,12-15: 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, Except:
6-0-0 oc bracing: 21-22,14-15.

REACTIONS. All bearings 15-2-0.

(lb) - Max Horz 22=217(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 22, 14 except 19=121(LC 12), 20=110(LC 12), 21=140(LC 12),
17=119(LC 13), 16=112(LC 13), 15=128(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 22, 14, 18, 19, 20, 21, 17, 16, 15

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 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) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 14 except (jt=lb) 19=121, 20=110, 21=140, 17=119, 16=112, 15=128.
- 12) 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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sealed by Velez, Joaquin, PE
on the date indicated here.
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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:

October 24,2025

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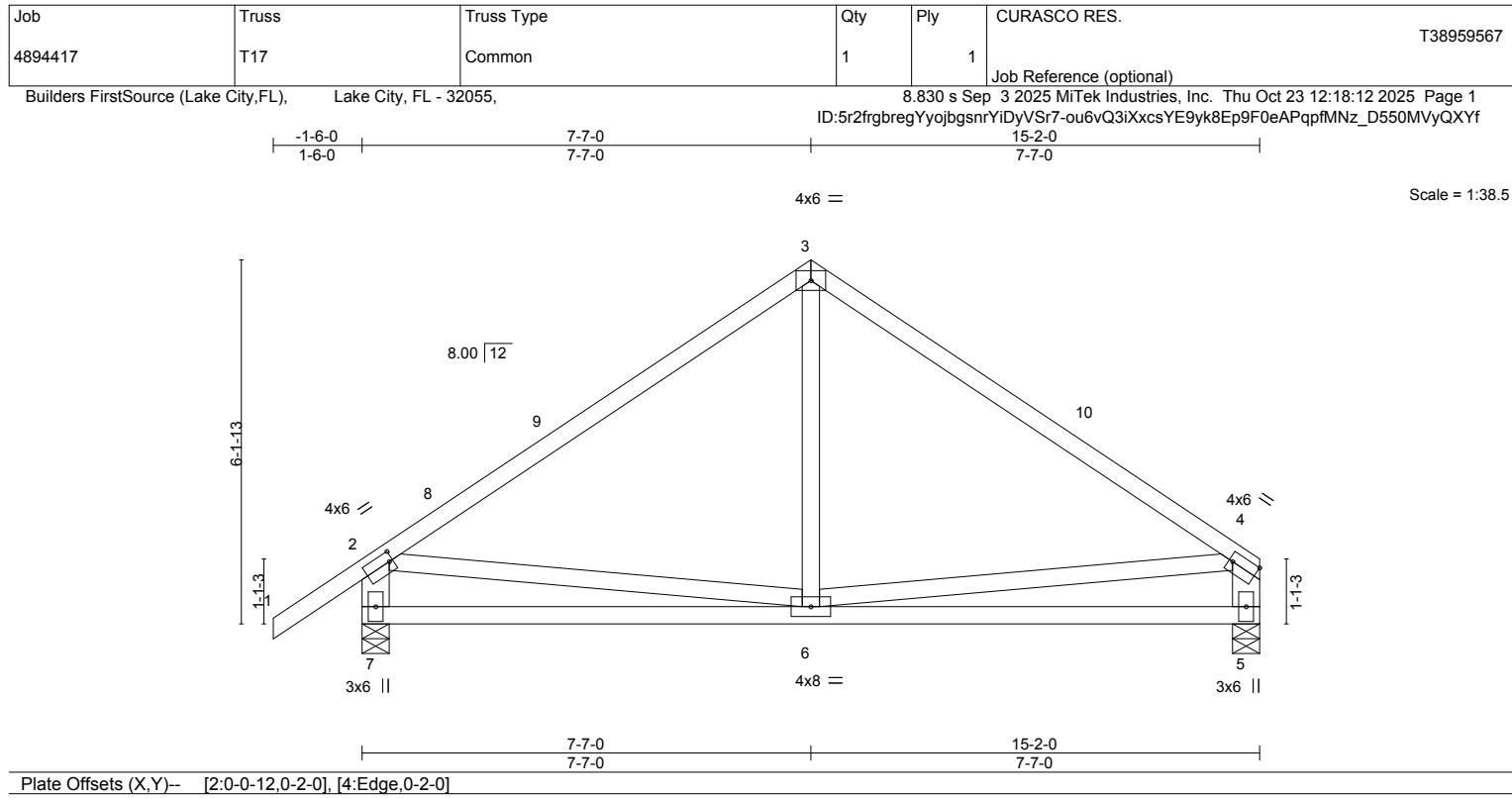


Plate Offsets (X,Y)-- [2:0-0-12,0-2-0], [4:Edge,0-2-0]

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 0.73	Vert(LL)	-0.06	6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.48	Vert(CT)	-0.12	6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 86 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-7,4-5: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-1 oc purlins,
except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-6 oc bracing.

REACTIONS. (size) 7=0-5-8, 5=0-5-8

Max Horz 7=224(LC 9)
Max Uplift 7=-259(LC 12), 5=-197(LC 13)
Max Grav 7=698(LC 1), 5=582(LC 1)

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

TOP CHORD 2-3=-626/290, 3-4=-616/298, 2-7=-633/452, 4-5=-517/330

BOT CHORD 6-7=-383/497, 5-6=-219/276

WEBS 3-6=0/292, 2-6=-166/309, 4-6=-121/275

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 C; 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 7-7-0, Zone2 7-7-0 to 11-9-15, Zone1 11-9-15 to 14-11-4 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=259, 5=197.

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:

October 24,2025

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959568
4894417	T17G	Common Structural Gable	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:13 2025 Page 1

ID:5r2frgbregYyojbgsnrYiDyVSr7-G4fHdPj9hv_PsJXwiyK0oDARKDEO5nv7SlqZvxyQXYe

-1-6-0 7-7-0 15-2-0 16-8-0
1-6-0 7-7-0 7-7-0 1-6-0

Scale = 1:37.1

4x5 =

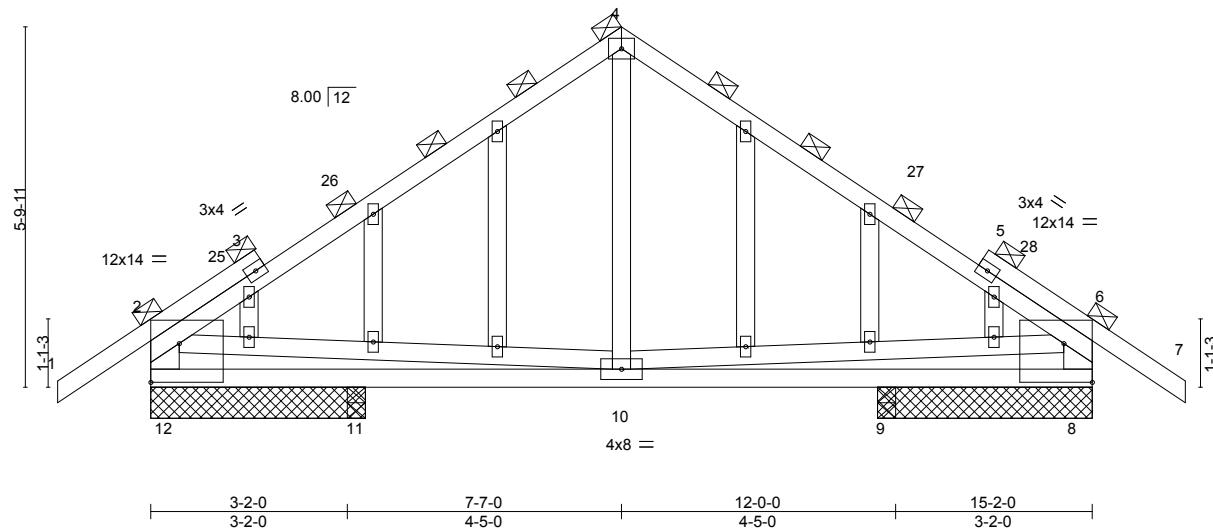


Plate Offsets (X,Y)-- [2:Edge,0-7-8], [6:Edge,0-7-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.37	Vert(LL)	-0.01	10	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.19	Vert(CT)	-0.02	10	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(CT)	0.01	8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 112 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 2-12,6-8: 2x6 SP No.2
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
 BOT CHORD Rigid ceiling directly applied or 7-8-13 oc bracing.

REACTIONS. All bearings 3-5-8 except (jt=length) 11=0-3-8, 9=0-3-8.

(lb) - Max Horz 12=-217(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) except 12=-264(LC 12), 8=-266(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 11, 9 except 12=590(LC 1), 8=590(LC 1)

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

TOP CHORD 2-4=-541/297, 4-6=-541/296, 2-12=-580/454, 6-8=-580/454
 BOT CHORD 11-12=-572/723, 10-11=-572/723, 9-10=-517/596, 8-9=-517/596
 WEBS 2-10=-373/520, 6-10=-375/524

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 C; 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 7-7-0, Zone2 7-7-0 to 11-9-15, Zone1 11-9-15 to 16-8-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Cable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 264 lb uplift at joint 12 and 266 lb uplift at joint 8.
- 10) 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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 Chesterfield, MO 63017
 Date:

October 24, 2025

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Job 4894417	Truss T18	Truss Type Roof Special Girder	Qty 1	Ply 2	CURASCO RES.	T38959569
Builders FirstSource (Lake City,FL),	Lake City, FL - 32055,				8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:14 2025 Page 1	
					ID:5r2frggregYyojbgsnrYiDyVSr7-kHDgrijoSD6GUT67FfrdKQjYJdNRq8VGgPa6R0yQXYd	
					4-4-0 7-7-0 10-10-0 12-8-8 15-2-0	
					4-4-0 3-3-0 3-3-0 1-10-8 2-5-8	
					4x5	Scale = 1:40.3

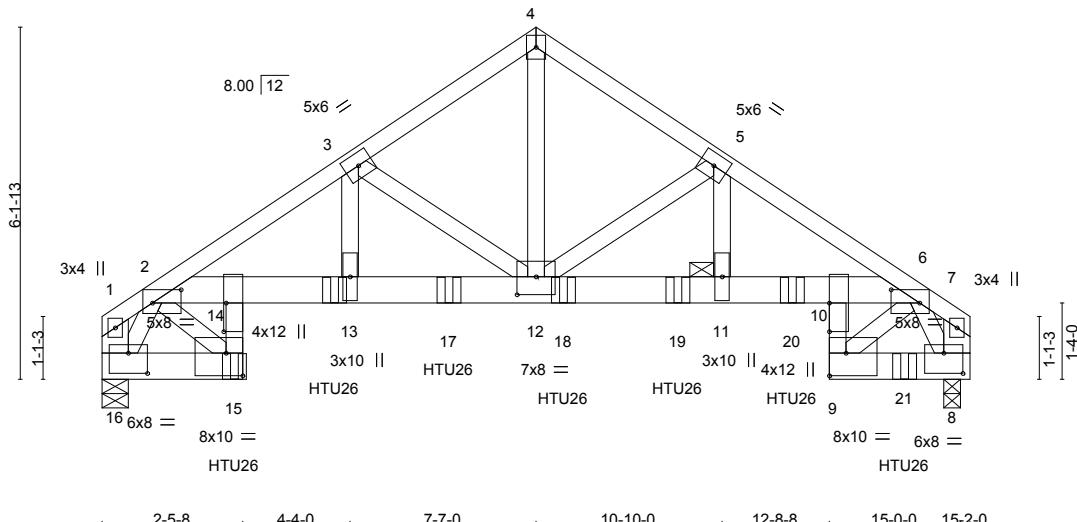


Plate Offsets (X,Y)-- [2:0-6-0,0-2-13], [6:0-6-0,0-2-13], [8:0-4-0,0-4-4], [9:Edge,0-4-12], [10:0-6-0,0-0-0], [12:0-4-0,0-3-12], [14:0-6-0,0-0-8], [15:Edge,0-4-12], [16:0-4-0,0-4-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.64	Vert(LL)	-0.11	12-13	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.91	Vert(CT)	-0.20	12-13	>900	180	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.68	Horz(CT)	0.25	8	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 211 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 11-12, 10-11
WEBS 15-16-8-9: 2x6 SP No.2, 2-6: 2x6 SP 2400F 2.0E or 2x6 SP M 26	JOINTS 1 Brace at Jt(s): 11

REACTIONS.	(size)	8=0-3-8, 16=0-5-8
	Max Horz	16=-156(LC 27)
	Max Uplift	8=-1698(LC 9), 16=-1517(LC 8)
	Max Grav	8=5155(LC 2), 16=4598(LC 2)

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

TOP CHORD 1-2=-808/272, 2-3=-8669/2918, 3-4=-5342/1805, 4-5=-5342/1827, 5-6=-8518/2800, 1-16=-912/314

BOT CHORD 15-16=-983/2670, 14-15=-1470/4191, 2-14=-2410/7085, 13-14=-2462/7220, 12-13=-2462/7220, 11-12=-2291/7095, 10-11=-2291/7095, 6-10=-2246/6958,

WEBS 9-10=-1093/3352, 8-9=-990/3000 3-13=-1181/3568, 3-12=-3415/1282, 4-12=-1910/5701, 5-12=-3263/1188, 5-11=-1080/3398, 2-15=-3674/1357, 6-9=-4218/1393, 7-8=-401/142, 2-16=-4338/1438, 6-8=-5642/1861

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 2 rows staggered at 0-2-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1698 lb uplift at joint 8 and 1517 lb uplift at joint 16.
- 9) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-3-12 from the left end to 14-0-5 to connect truss(es) to back face of bottom chord.

On full nail holes where hanger is in contact with lumber.

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:

October 24, 2025

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314.434.1200 / MiTek-US.com

Job 4894417	Truss T18	Truss Type Roof Special Girder	Qty 1	Ply 2	CURASCO RES.	T38959569
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:14 2025 Page 2
ID:5r2frgbregYyobjgsnrYiDyVSr7-kHDgrijoSD6GUT67FfrdKQjYJdNRq8VGgPa6ROyQXYd

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 15-16=-20, 10-14=-20, 8-9=-20

Concentrated Loads (lb)

Vert: 6=-1110(B) 13=-1168(B) 15=-1162(B) 17=-1168(B) 18=-1114(B) 19=-1114(B) 20=-1114(B)



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Job 4894417	Truss T19G	Truss Type Common Supported Gable	Qty 1	Ply 1	CURASCO RES.	T38959570
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Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:15 2025 Page 1

ID:5r2frgbregYyojbgsnrYiDyVSr7-DTn225kQDXE65dhJpNMsteGnb1xEZklQv3JgzqyQXYc

-1-6-0 4-7-0 9-2-0 10-8-0
1-6-0 4-7-0 4-7-0 1-6-0

Scale = 1:25.8

4x5 =

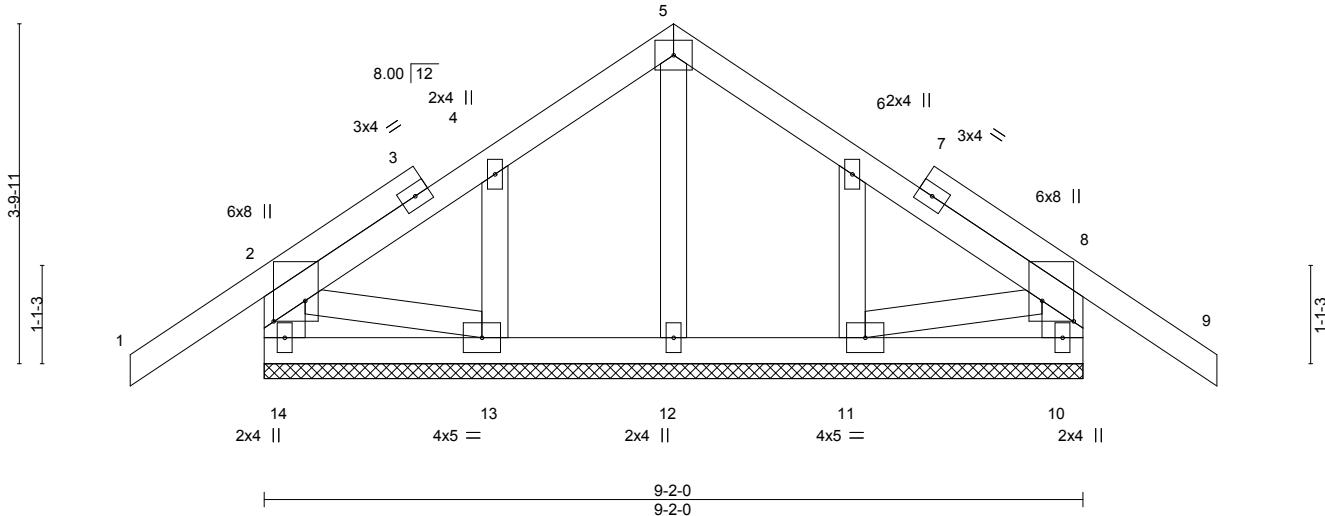


Plate Offsets (X,Y)-- [2:0-2-12,0-4-4], [8:0-2-12,0-4-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.35	Vert(LL)	-0.01	9	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.02	9	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S						Weight: 61 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
2-13,8-11: 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 6-0-0 oc bracing.

REACTIONS. All bearings 9-2-0.

(lb) - Max Horz 14=118(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 14, 10 except 13=-137(LC 12), 11=-132(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 14, 10, 12, 13, 11

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

TOP CHORD 2-14=-208/291, 8-10=-208/297

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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) 14, 10 except (jt=lb) 13=137, 11=132.

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:

October 24,2025

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Job 4894417	Truss T20	Truss Type Common	Qty 4	Ply 1	CURASCO RES.	T38959571
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Builders FirstSource (Lake City,FL)

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:15 2025 Page 1

ID:5r2frgbregYyojbgsmrYiDyVSr7-DTn225kQDXE65dhJpNMsteGk71rWZkPQv3JgzqyQXYc

-1-6-0 7-0-0 14-0-0 15-6-0
1-6-0 7-0-0 7-0-0 1-6-0

Scale = 1:36.5

4x5 =

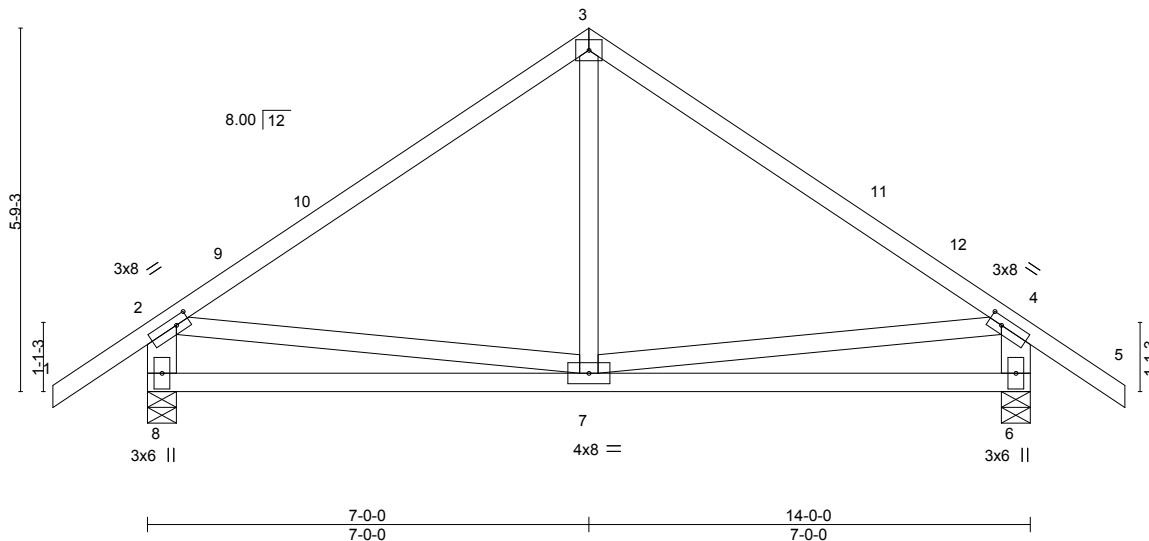


Plate Offsets (X,Y)-- [2:0-2-8,0-1-8], [4:0-2-8,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.57	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.41	Vert(CT)	-0.08	6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.01	6	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 82 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 2-8,4-6: 2x6 SP No.2

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) 8=0-5-8, 6=0-5-8

Max Horz 8=-224(LC 10)
 Max Uplift 8=-243(LC 12), 6=-243(LC 13)
 Max Grav 8=645(LC 1), 6=645(LC 1)

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

TOP CHORD 2-3=-557/278, 3-4=-557/278, 2-8=-586/455, 4-6=-586/455

BOT CHORD 7-8=-303/442, 6-7=-232/323

WEBS 3-7=-3/266, 2-7=-136/264, 4-7=-144/269

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 C; 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 15-6-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=243, 6=243.

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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 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 Date:

October 24,2025

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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 4894417	Truss T20G	Truss Type Common Supported Gable	Qty 1	Ply 1	CURASCO RES.	T38959572
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Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:16 2025 Page 1

ID:5r2frgbregYyojbgsnYiDyVSr7-hfLQGQI2_qMzjnGVN4t5Proz4RHIIChZ8j3DVGyQXYb

-1-6-0 7-0-0 14-0-0 15-6-0
1-6-0 7-0-0 7-0-0 1-6-0

Scale = 1:35.2

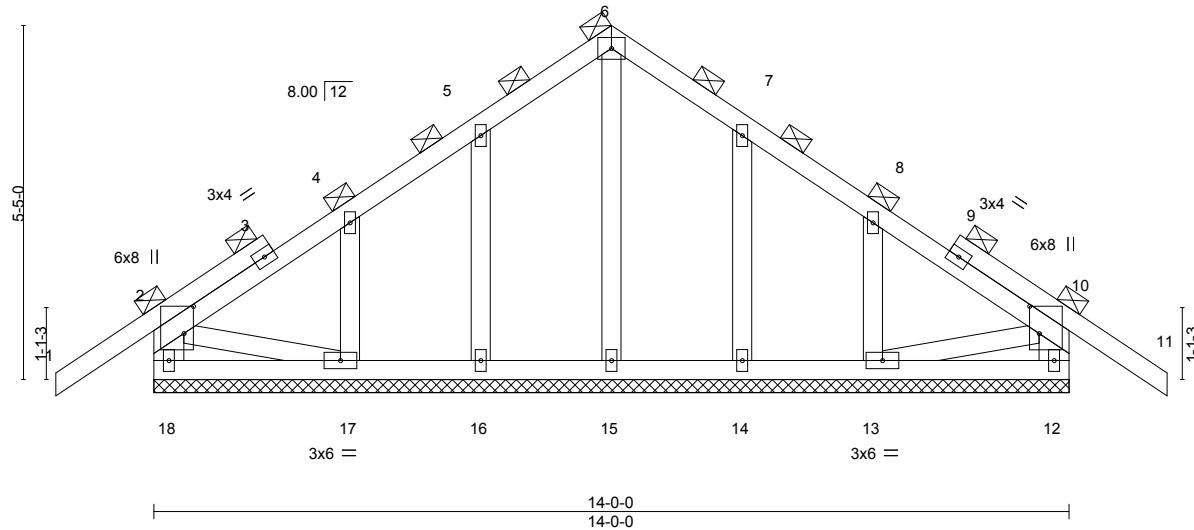


Plate Offsets (X,Y)-- [2:0-5-0,0-1-12], [10:0-5-0,0-1-12]

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2023/TPI2014	CSI. TC 0.30 BC 0.05 WB 0.06 Matrix-S	DEFL. Vert(LL) -0.01 Vert(CT) -0.02 Horz(CT) 0.00	in (loc) 11 11 12	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 244/190
							Weight: 92 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
2-17,10-13: 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 6-0-0 oc bracing.

REACTIONS. All bearings 14-0-0.

(lb) - Max Horz 18=-205(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 18, 12 except 16=-119(LC 12), 17=-154(LC 12), 14=-119(LC 13),
13=-149(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 18, 12, 15, 16, 17, 14, 13

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 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) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 12 except (jt=lb) 16=119, 17=154, 14=119, 13=149.
- 12) 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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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

October 24,2025

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Job 4894417	Truss T21	Truss Type Common Girder	Qty 1	Ply 2	CURASCO RES.	T38959573
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:17 2025 Page 2
ID:5r2frgbregYyojbgsnrYiDyVSr7-9svoTmmgl8UqLwrixnOKy3L6FrR1YDjMMon2jyQXYa

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-5=-60, 5-8=-60, 12-16=-20

Concentrated Loads (lb)

Vert: 9=-1493(F) 20=-1312(F) 21=-1493(F)



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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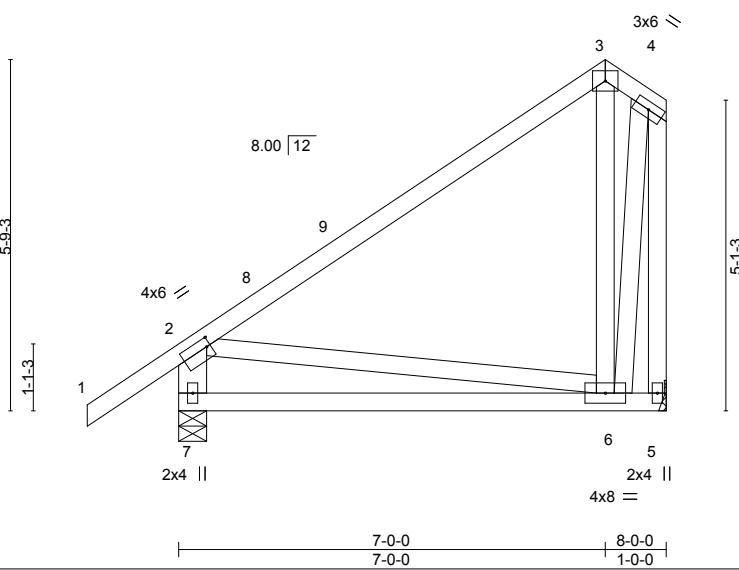
Job 4894417	Truss T22	Truss Type Common	Qty 3	Ply 1	CURASCO RES.	T38959574
Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:18 2025 Page 1 ID:5r2frgbregYyojbgsnrYiDyVSr7-d2TAh6nlWSchz4QuUVvZUGuDvEukm0msb0YKa9yQXYZ						
-1-6-0 7-0-0 8-0-0 1-6-0 7-0-0 1-0-0						
Scale = 1:37.8						
						

Plate Offsets (X,Y)-- [2:0-0-12,0-1-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.66	Vert(LL)	-0.05	6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.37	Vert(CT)	-0.11	6-7	>844	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.41	Horz(CT)	-0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 63 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-7: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-7 oc bracing.

REACTIONS. (size) 7=0-5-8, 5=Mechanical

Max Horz 7=242(LC 12)
Max Uplift 7=-115(LC 12), 5=-195(LC 12)
Max Grav 7=421(LC 1), 5=319(LC 19)

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

TOP CHORD 2-7=-356/368, 4-5=-440/286
BOT CHORD 6-7=-675/549
WEBS 3-6=-269/394, 2-6=-468/609, 4-6=-393/506

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 C; 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, Zone3 7-0-0 to 7-10-4 zone; end vertical left 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) except (jt=lb) 7=115, 5=195.

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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:

October 24,2025

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Job 4894417	Truss T22G	Truss Type GABLE	Qty 1	Ply 1	CURASCO RES.	T38959575
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Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:18 2025 Page 1

ID:5r2frggregYyojbgsnrYiDyVSr7-d2TAh6nIWSchz4QuUVvZUGuHEEzmm5gsb0YKa9yQXYZ

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Scale = 1:35.9

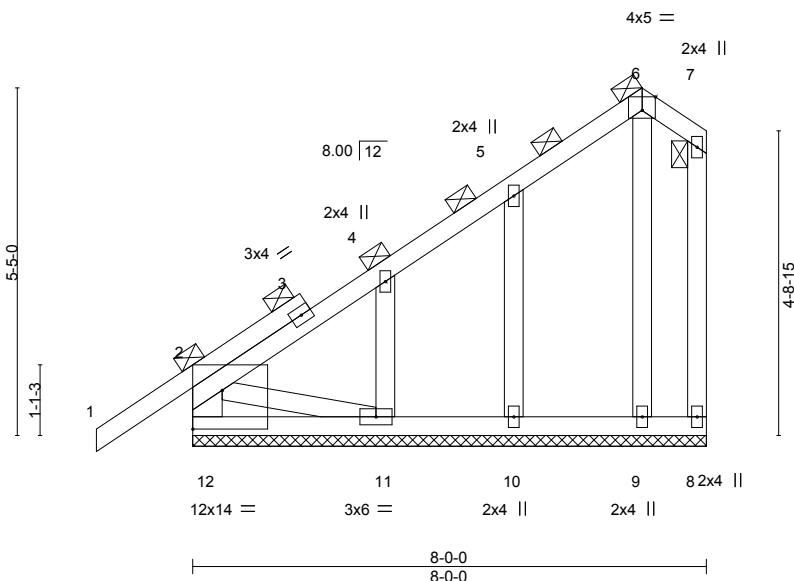


Plate Offsets (X,Y)-- [6:0-2-7,Edge], [12:Edge,0-7-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.38	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	-0.01	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	-0.00	8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S						Weight: 59 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-12: 2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 11-12.

REACTIONS. All bearings 8-0-0.

(lb) - Max Horz 12=241(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 12, 8, 9 except 10=-121(LC 12), 11=-174(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 12, 8, 9, 10, 11

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

TOP CHORD 2-4=-318/152
BOT CHORD 11-12=-297/154
WEBS 5-10=-161/263, 4-11=-178/266, 2-11=-159/307

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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) 12, 8, 9 except (jt=lb) 10=121, 11=174.
- 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
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Chesterfield, MO 63017
Date:

October 24,2025

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Job 4894417	Truss T23	Truss Type Jack-Closed	Qty 1	Ply 1	CURASCO RES.	T38959576
Builders FirstSource (Lake City,FL),	Lake City, FL - 32055,					
8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:19 2025 Page 1 ID:5r2frgbregYyojbgsrnYiDyVSr7-5E1ZuSnwHlkYaE?42CRo1UQSUelaVY_0qgHt6byQXY						
-1-6-0 2-0-0 1-6-0 2-0-0						
Scale = 1:15.2						

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 0.42	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.00	6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP						Weight: 15 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 2-7: 2x6 SP No.2

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

REACTIONS. (size) 7=0-5-8, 5=Mechanical
 Max Horz 7=90(LC 12)
 Max Uplift 7=-65(LC 12), 5=-54(LC 12)
 Max Grav 7=225(LC 1), 5=49(LC 10)

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

WEBS 2-6=-66/293

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 1-6-12, Zone1 1-6-12 to 2-0-0 zone; end vertical left 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) 7, 5.

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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:

October 24, 2025

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Job 4894417	Truss T23G	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	CURASCO RES.	T38959577
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Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:20 2025 Page 1
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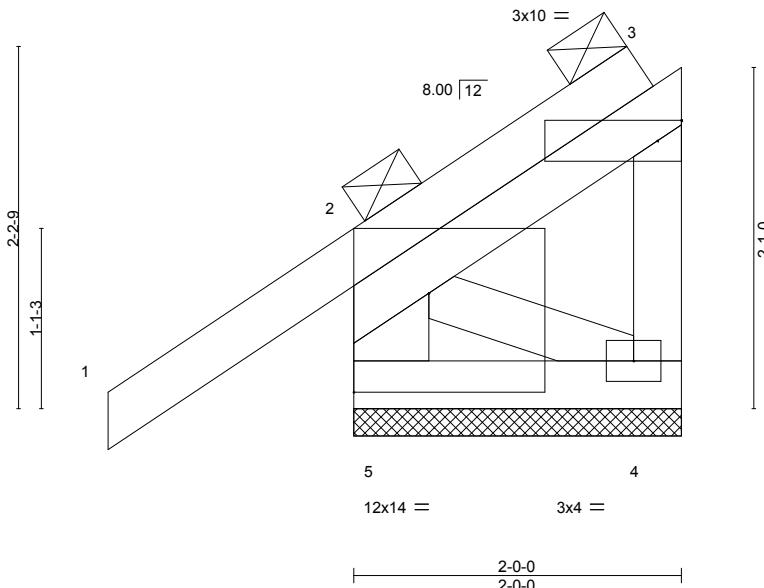


Plate Offsets (X,Y)-- [5:Edge,0-7-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.44	Vert(LL)	-0.01	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	-0.01	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P						Weight: 18 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 2-5: 2x6 SP No.2

BRACING-

TOP CHORD 2-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=2-0-0, 4=2-0-0

Max Horz 5=95(LC 12)
 Max Uplift 5=-70(LC 12), 4=-46(LC 12)
 Max Grav 5=224(LC 1), 4=35(LC 10)

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

TOP CHORD 2-5=-208/313
 BOT CHORD 4-5=-251/81
 WEBS 2-4=-90/277

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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) 5, 4.
- 11) 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:

October 24, 2025

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Job 4894417	Truss T24	Truss Type Half Hip Girder	Qty 2	Ply 1	CURASCO RES.	T38959578
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Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:20 2025 Page 1

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1-0-0 5-0-0 1-0-0

Scale = 1:13.9

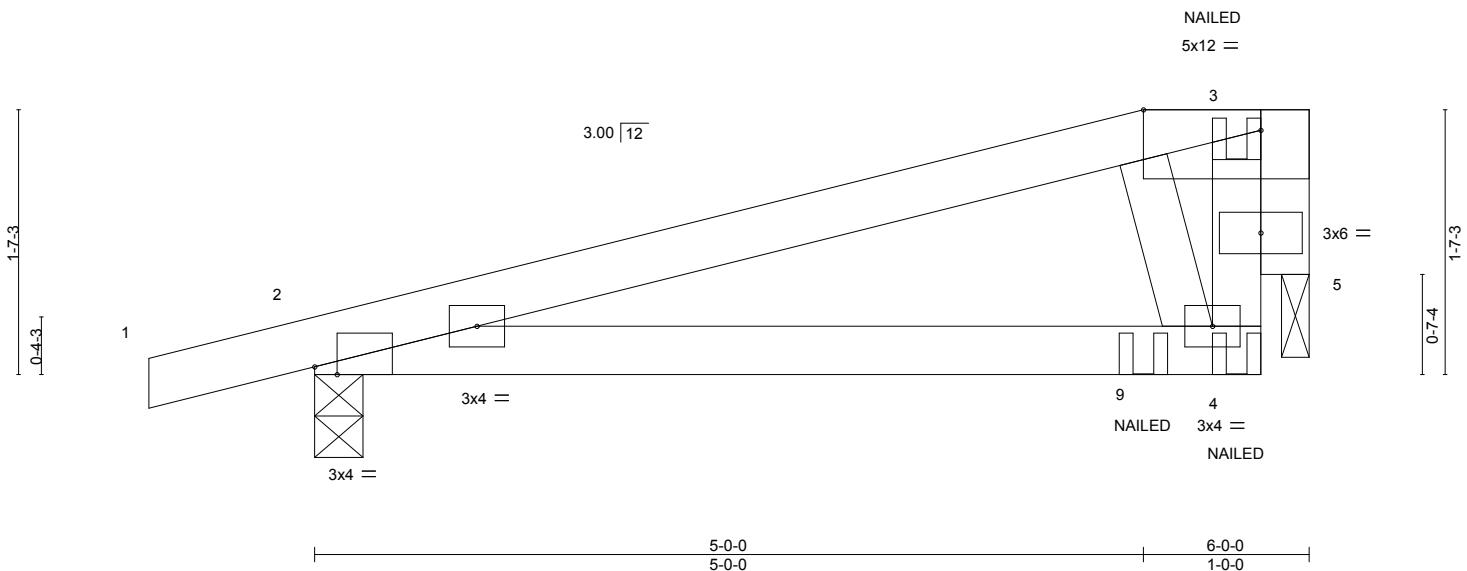


Plate Offsets (X,Y)-- [2:0-1-10,Edge], [3:0-8-8,Edge]

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 0.43	Vert(LL)	0.08	4-8	>857	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.36	Vert(CT)	-0.08	4-8	>819	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.01	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP						Weight: 24 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 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, 5=0-2-0

Max Horz 2=86(LC 4)

Max Uplift 2=-225(LC 4), 5=-350(LC 4)

Max Grav 2=296(LC 1), 5=432(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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=225, 5=350.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=60, 4-6=20

Concentrated Loads (lb)

Vert: 3=-93(B) 4=-51(B) 9=-79(B)

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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:

October 24,2025

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

Job 4894417	Truss T25	Truss Type KINGPOST	Qty 15	Ply 1	CURASCO RES.	T38959579
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Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:21 2025 Page 1

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6-0-0

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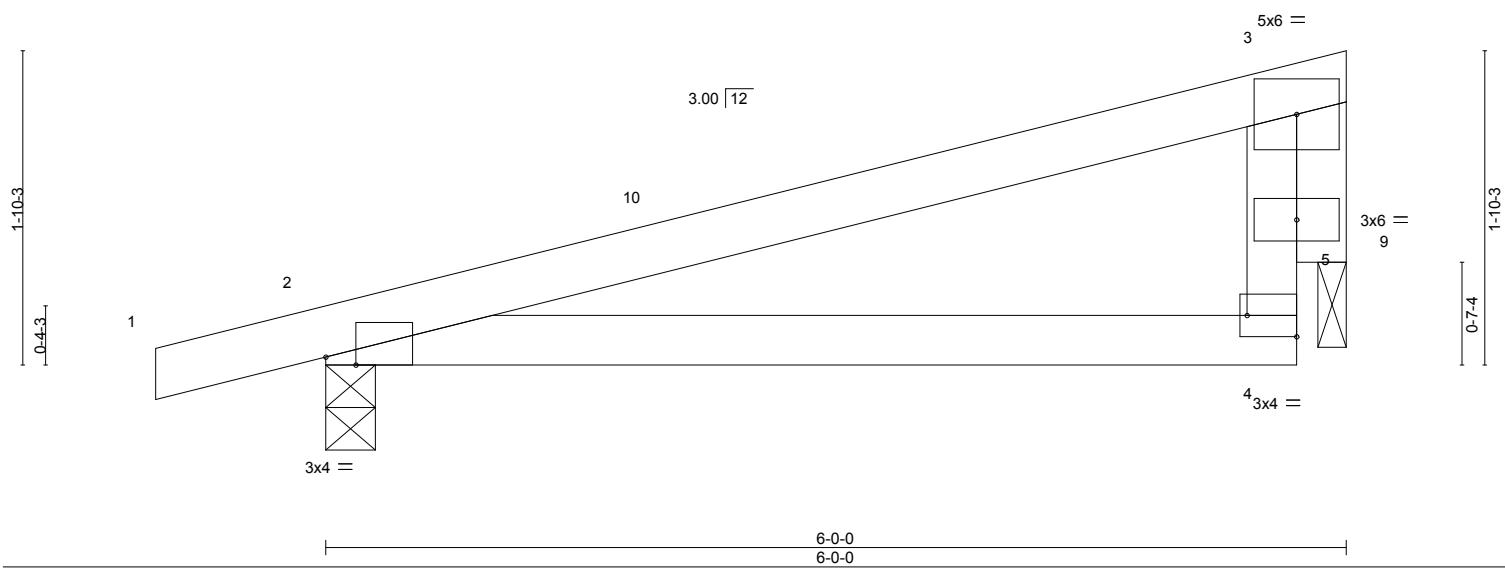


Plate Offsets (X,Y)-- [2:0-2-2,Edge], [4:Edge,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.42	Vert(LL)	0.06	4-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.28	Vert(CT)	0.05	4-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.36	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MR						Weight: 22 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 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-0-13 oc bracing.

REACTIONS. (size) 2=0-3-8, 9=0-2-0

Max Horz 2=86(LC 8)
 Max Uplift 2=-228(LC 8), 9=-158(LC 8)
 Max Grav 2=301(LC 1), 9=204(LC 1)

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

TOP CHORD 2-3=-253/306
 BOT CHORD 2-4=-356/229

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 5-6-12 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=228, 9=158.

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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:

October 24,2025

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Job 4894417	Truss V01	Truss Type GABLE	Qty 2	Ply 1	CURASCO RES.	T38959580				
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,			8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:21 2025 Page 1 ID:5r2frgbregYyojbgsnrYiDyVSr7-1d8JJ8pBpN_GqY9TAdTG6vWrwSz?zS9IH_m_BUyQXYW 6-9-12 6-9-12							
2x4										
Scale = 1:25.8										

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 0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P						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) 1=6-9-12, 4=6-9-12, 5=6-9-12

Max Horz 1=188(LC 12)
Max Uplift 4=-55(LC 12), 5=-203(LC 12)
Max Grav 1=104(LC 21), 4=86(LC 19), 5=317(LC 19)

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

TOP CHORD 1-2=-284/140
WEBS 2-5=-246/362

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-0-1 to 4-0-0, Zone1 4-0-0 to 6-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 100 lb uplift at joint(s) 4 except (jt=lb) 5=203.
- 8) 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.
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Date:

October 24,2025



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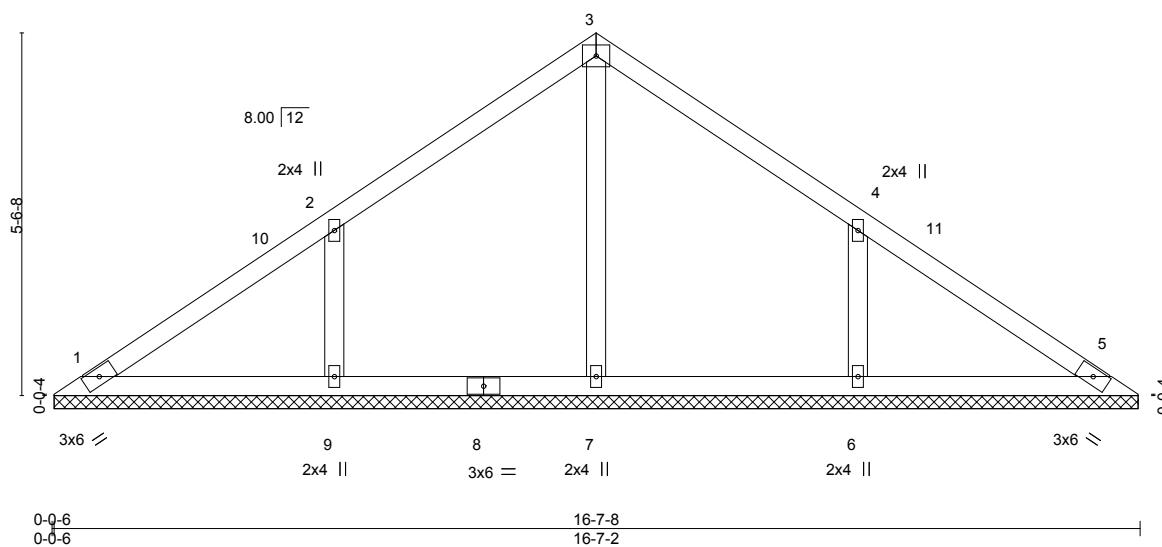
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

Job 4894417	Truss V02	Truss Type Valley	Qty 1	Ply 1	CURASCO RES.	T38959581
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:22 2025 Page 1 ID:5r2frgbregYyojbgsnrYiDyVSr7-VpihWUqpag67RijfjL_Vf62?xrJVivhSWeWXjwyQXYV

8-3-12 16-7-8
8-3-12 8-3-12

Scale = 1:35.2



LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2023/TPI2014	CSI. TC 0.21 BC 0.13 WB 0.09 Matrix-S	DEFL. Vert(LL) n/a (loc) l/defl L/d Vert(CT) n/a - n/a 999 Horz(CT) 0.00 5 n/a n/a	PLATES MT20	GRIP 244/190
				Weight: 67 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-6-12.
(lb) - Max Horz 1=166(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=272(LC 12), 6=272(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=416(LC 19), 6=416(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=320/289, 4-6=320/289

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 8-3-12, Zone2 8-3-12 to 12-3-12, Zone1 12-3-12 to 16-1-11 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 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=272, 6=272.

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Date:

October 24,2025

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Job 4894417	Truss V04	Truss Type Valley	Qty 1	Ply 1	CURASCO RES.	T38959583
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Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:23 2025 Page 1

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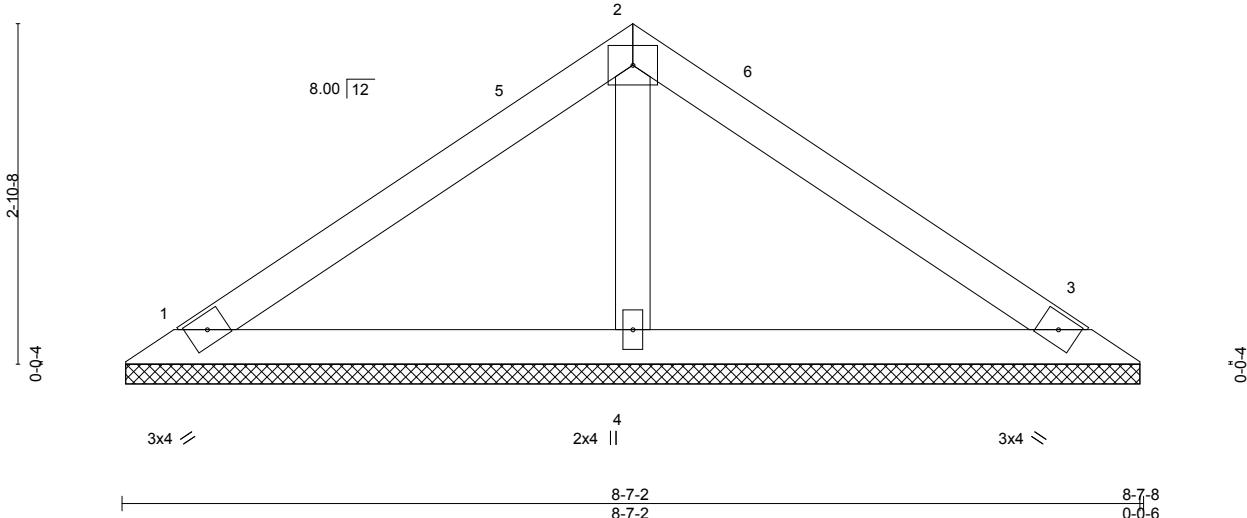
4-3-12

8-7-8

4-3-12

Scale = 1:19.4

4x5 =



LOADING (psf)	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2023/TPI2014	2-0-0 1.25 1.25 YES	CSI. TC 0.27 BC 0.15 WB 0.06 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 3	I/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0									Weight: 30 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=8-6-12, 3=8-6-12, 4=8-6-12

Max Horz 1=81(LC 8)

Max Uplift 1=64(LC 12), 3=75(LC 13), 4=83(LC 12)

Max Grav 1=151(LC 1), 3=153(LC 20), 4=311(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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 4-3-12, Zone3 4-3-12 to 8-1-11 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 100 lb uplift at joint(s) 1, 3, 4.

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Date:

October 24,2025

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Job 4894417	Truss V05	Truss Type Valley	Qty 1	Ply 1	CURASCO RES.	T38959584
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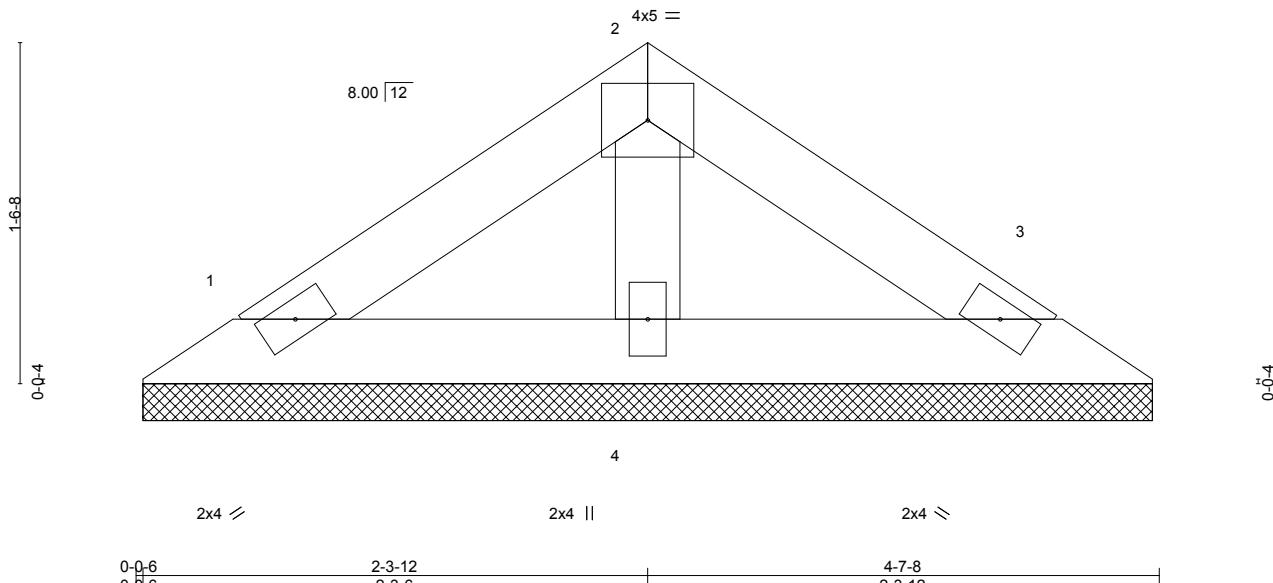
Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:24 2025 Page 1
ID:5r2frgbregYyojbgsnrYIdyVSr7-SCqSxAr36IMrh?2rl0zkX7N2f0QAq1lzy?eopyQXYT

2-3-12 2-3-12 4-7-8 2-3-12

Scale = 1:10.4



LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2023/TPI2014	CSI. TC 0.11 BC 0.03 WB 0.04 Matrix-P	DEFL. Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 3 n/a n/a	PLATES MT20	GRIP 244/190
				Weight: 15 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-6-12, 3=4-6-12, 4=4-6-12

Max Horz 1=39(LC 8)

Max Uplift 1=37(LC 12), 3=42(LC 13), 4=28(LC 12)

Max Grav 1=79(LC 1), 3=79(LC 1), 4=135(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 C; 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 100 lb uplift at joint(s) 1, 3, 4.

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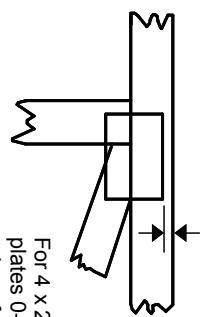
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Symbols

PLATE LOCATION AND ORIENTATION

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



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

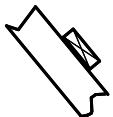
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 X 4

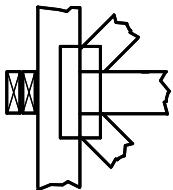
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

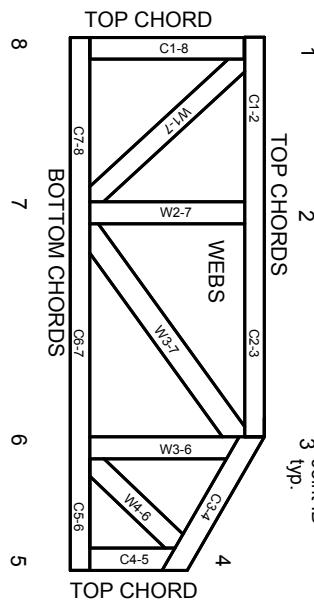


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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)



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

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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! 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.

7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.

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 Quality Criteria.

21. The design does not take into account any dynamic or other loads other than those expressly stated.

General Safety Notes

MiTek®