



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

73

RE: 3930685 - COLEMAN

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

Site Information:

Customer Info: RJ CONST. Project Name: Spec Hse Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 301 NW Coleman Place, N/A
City: Columbia Cty State: FL

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

Name: License #:
Address: State:
City:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-22 Wind Speed: 140 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 25 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.

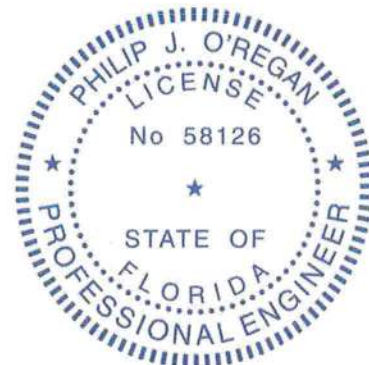
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T33302330	CJ01	3/21/24	15	T33302344	T06	3/21/24
2	T33302331	CJ03	3/21/24	16	T33302345	T07	3/21/24
3	T33302332	CJ05	3/21/24	17	T33302346	T08	3/21/24
4	T33302333	EJ01	3/21/24	18	T33302347	T09	3/21/24
5	T33302334	EJ02	3/21/24	19	T33302348	T10	3/21/24
6	T33302335	EJ03	3/21/24	20	T33302349	T11	3/21/24
7	T33302336	HJ05	3/21/24	21	T33302350	T12	3/21/24
8	T33302337	HJ08	3/21/24	22	T33302351	T13	3/21/24
9	T33302338	HJ10	3/21/24	23	T33302352	T14	3/21/24
10	T33302339	T01	3/21/24	24	T33302353	T15	3/21/24
11	T33302340	T02	3/21/24	25	T33302354	T16	3/21/24
12	T33302341	T03	3/21/24				
13	T33302342	T04	3/21/24				
14	T33302343	T05	3/21/24				



This item has been digitally signed and sealed by ORegan, Philip, 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: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2025.



Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

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

March 21, 2024

Job 3930685	Truss CJ01	Truss Type Jack-Open	Qty 14	Ply 1	COLEMAN	T33302330
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:28 2024 Page 1
 ID:NGSCqyJrgg3YcTcCG8pVgkzZR14-j0LvOFckl6hyHoYp6Q1pjCVtro1ofDcPwRYJ3IzZ3gz

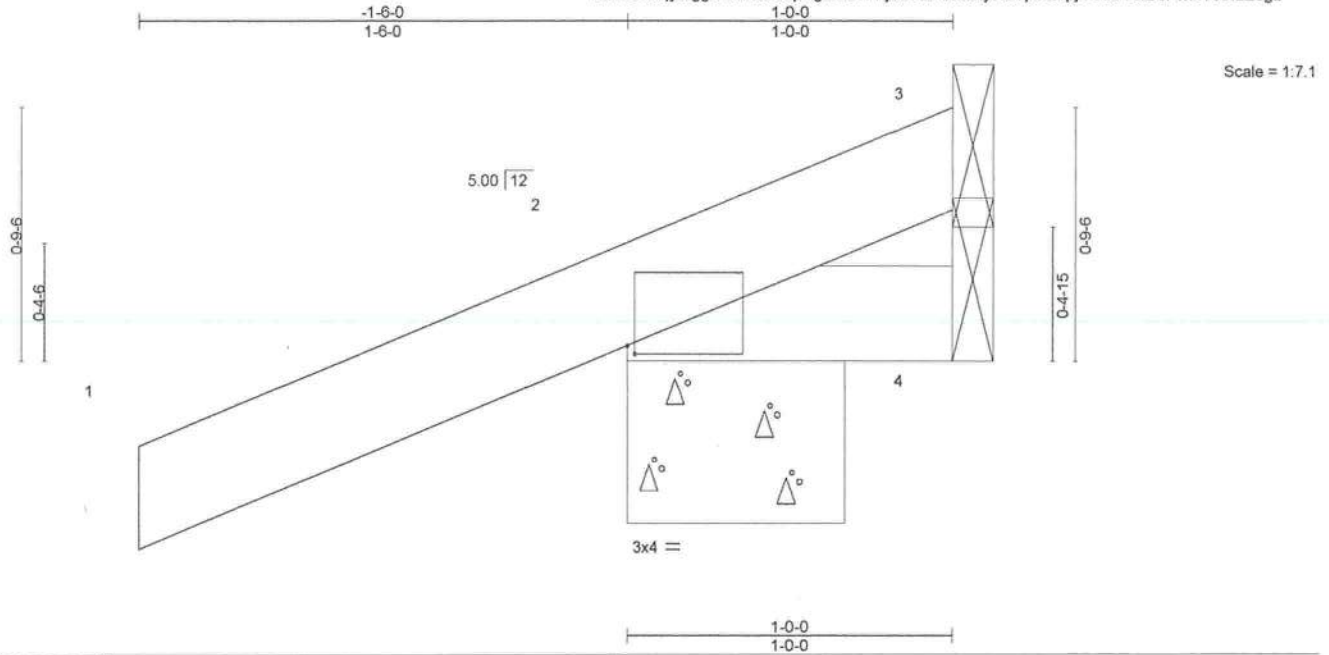


Plate Offsets (X,Y)-- [2:0-0-4,0-0-5]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.27	Vert(LL) -0.00	5	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.05	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: 6 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
 Max Horz 2=55(LC 8)
 Max Uplift 3=-6(LC 1), 2=-157(LC 8), 4=-19(LC 1)
 Max Grav 3=17(LC 8), 2=179(LC 1), 4=34(LC 8)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; 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
- 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=157.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

March 21,2024

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

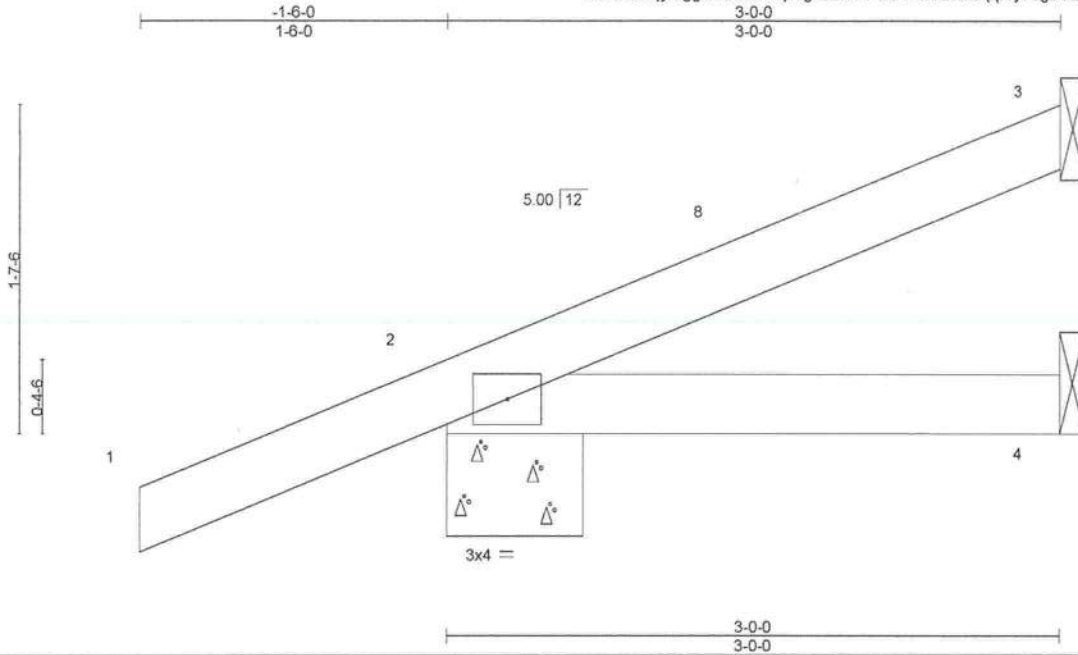
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

MiTek®

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

Job 3930685	Truss CJ03	Truss Type Jack-Open	Qty 10	Ply 1	COLEMAN	T33302331
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:29 2024 Page 1
 ID:NGSCqyJrgg3YcTcCG8pVgkzZR14-CCvHbbDM3Pppvy70g8Y2FP22bCmbOgsY94HsbkzZ3gy



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 0.27	Vert(LL)	-0.00	4-7	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.01	4-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MP					Weight: 12 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=0-8-0, 4=Mechanical
 Max Horz 2=102(LC 12)
 Max Uplift 3=60(LC 12), 2=-130(LC 8), 4=-1(LC 12)
 Max Grav 3=59(LC 1), 2=210(LC 1), 4=49(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; 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 2-11-4 zone;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=130.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

March 21, 2024

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

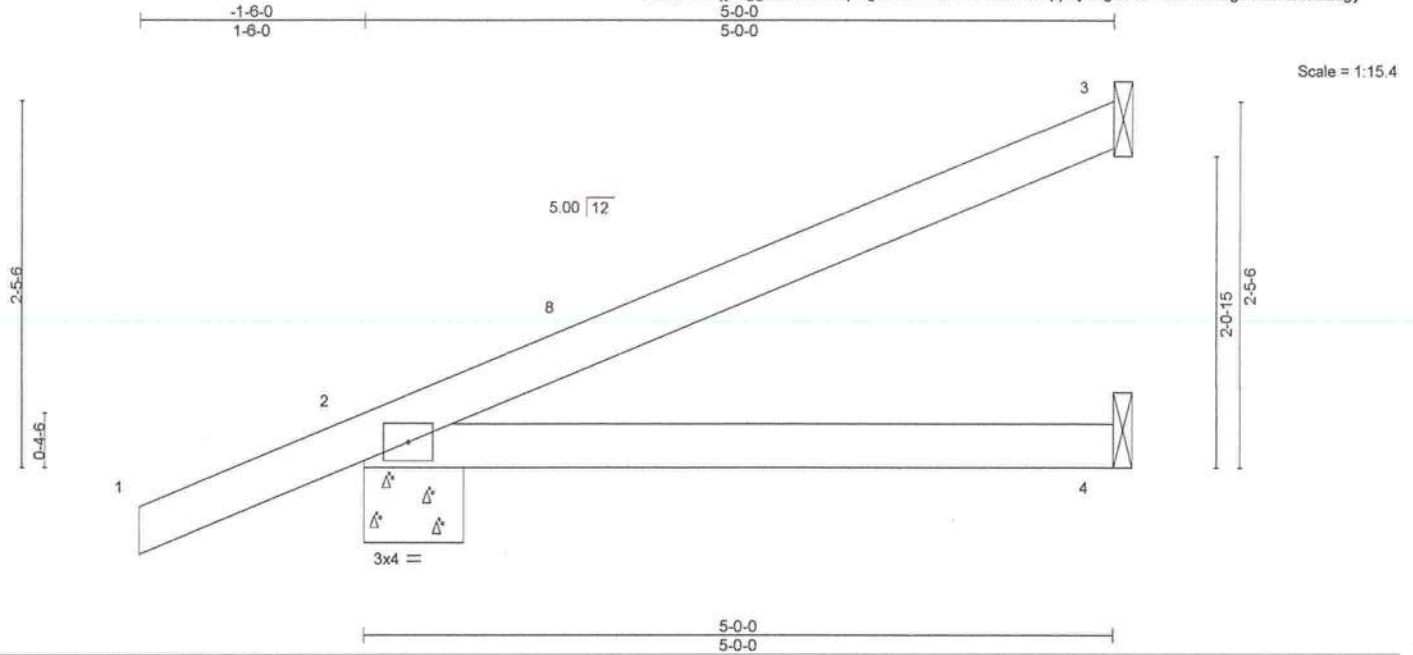
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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 314.434.1200 / MiTek-US.com

Job 3930685	Truss CJ05	Truss Type Jack-Open	Qty 6	Ply 1	COLEMAN	T33302332
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:29 2024 Page 1
 ID:NGSCqyJrgg3YcTcCG8pVgkzZR14-CCvHbbDM3Pppvy70g8Y2FP20TCfOgsY94HsbkzZ3gy



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	in (loc) l/def L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.33	Vert(LL) 0.05 4-7 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Vert(CT) -0.06 4-7 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) -0.00 3 n/a n/a		
	Code FBC2023/TPI2014			Weight: 18 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 5-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
 Max Horz 2=150(LC 12)
 Max Uplift 3=114(LC 12), 2=153(LC 12), 4=8(LC 12)
 Max Grav 3=112(LC 1), 2=276(LC 1), 4=87(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpj=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 4 except (jt=lb) 3=114, 2=153.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

March 21, 2024

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

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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 3930685	Truss EJ01	Truss Type Jack-Partial	Qty 17	Ply 1	COLEMAN	T33302333
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:30 2024 Page 1
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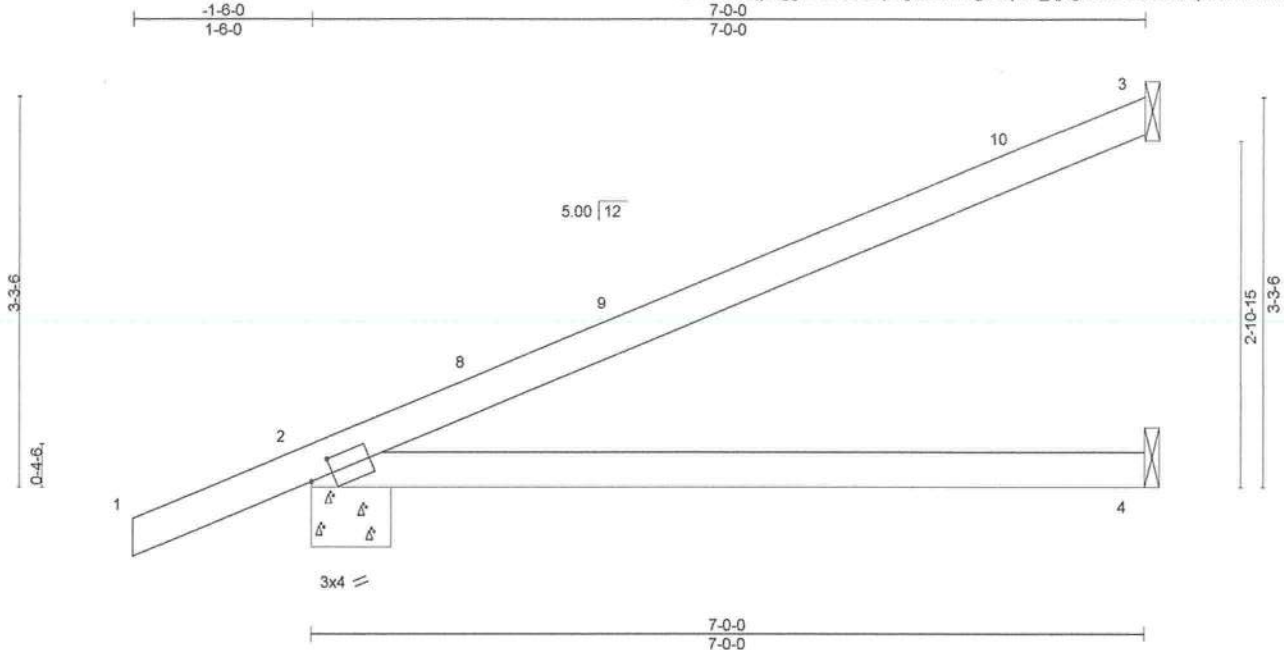


Plate Offsets (X,Y) - [2:0-2-5,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.81	Vert(LL) 0.16	4-7	>509	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.59	Vert(CT) -0.21	4-7	>392	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014	Matrix-MS					Weight: 24 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 3-2-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=191(LC 12)
Max Uplift 3=-149(LC 12), 2=-185(LC 12), 4=-11(LC 12)
Max Grav 3=163(LC 1), 2=346(LC 1), 4=125(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; 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 6-11-4 zone; 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) 4 except (jt=lb) 3=149, 2=185.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 21, 2024

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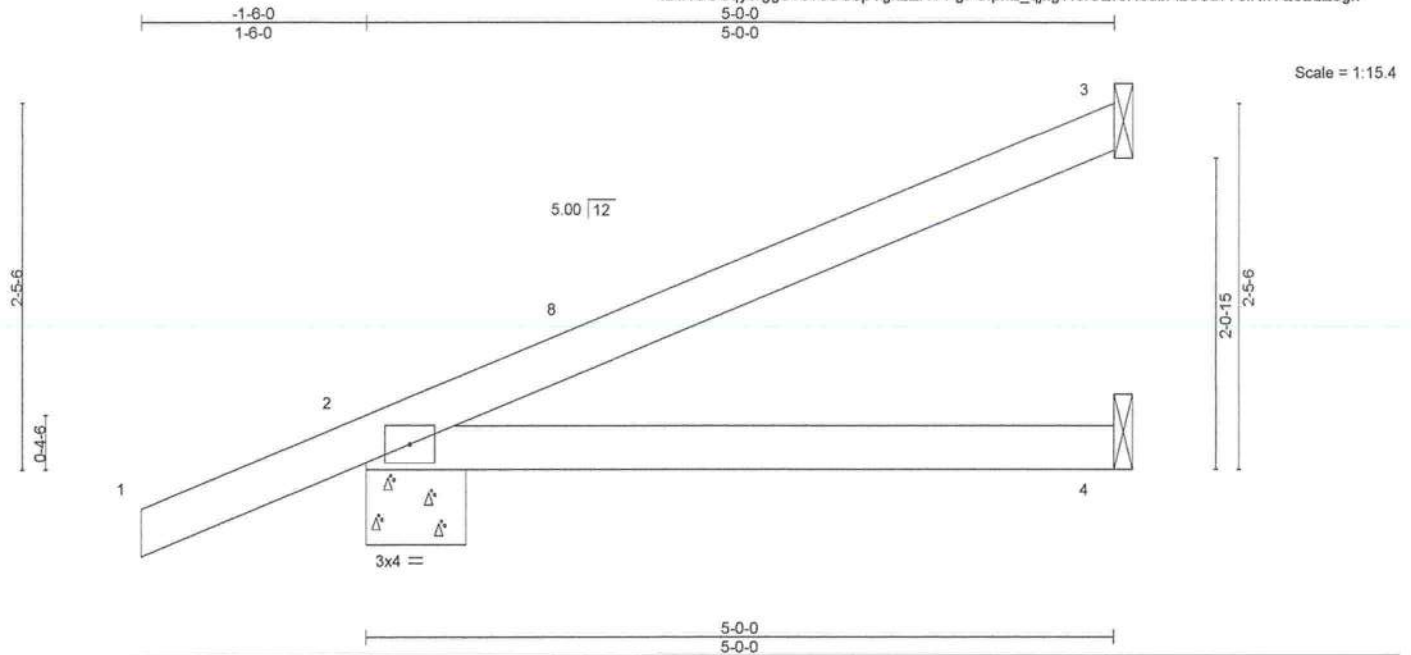
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MiTek®

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

Job 3930685	Truss EJ02	Truss Type Jack-Partial	Qty 3	Ply 1	COLEMAN	T33302334
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:30 2024 Page 1
 ID:NGSCqyJrgg3YcTcCG8pVgkzZR14-gPSfxE_qjxgVW5iCEr3HodbADbeu776iNk1Q8BzZ3gx



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/def L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.40	Vert(LL) 0.05 4-7 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.33	Vert(CT) -0.06 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: 18 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 5-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
 Max Horz 2=150(LC 12)
 Max Uplift 3=-114(LC 12), 2=-153(LC 12), 4=-8(LC 12)
 Max Grav 3=112(LC 1), 2=276(LC 1), 4=87(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=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 4-11-4 zone;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) 4 except (jt=lb) 3=114, 2=153.

This item has been digitally signed and sealed by O'Regan, Philip, 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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 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

March 21, 2024

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

Job 3930685	Truss EJ03	Truss Type Jack-Partial	Qty 2	Ply 1	COLEMAN	T33302335
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:30 2024 Page 1
 ID:NGSCqyJrgg3YcTcCG8pVgkzZR14-gP3fpxE_qjxgW5iCEr3HodbCLbin776iNk1Q8BzZ3gx

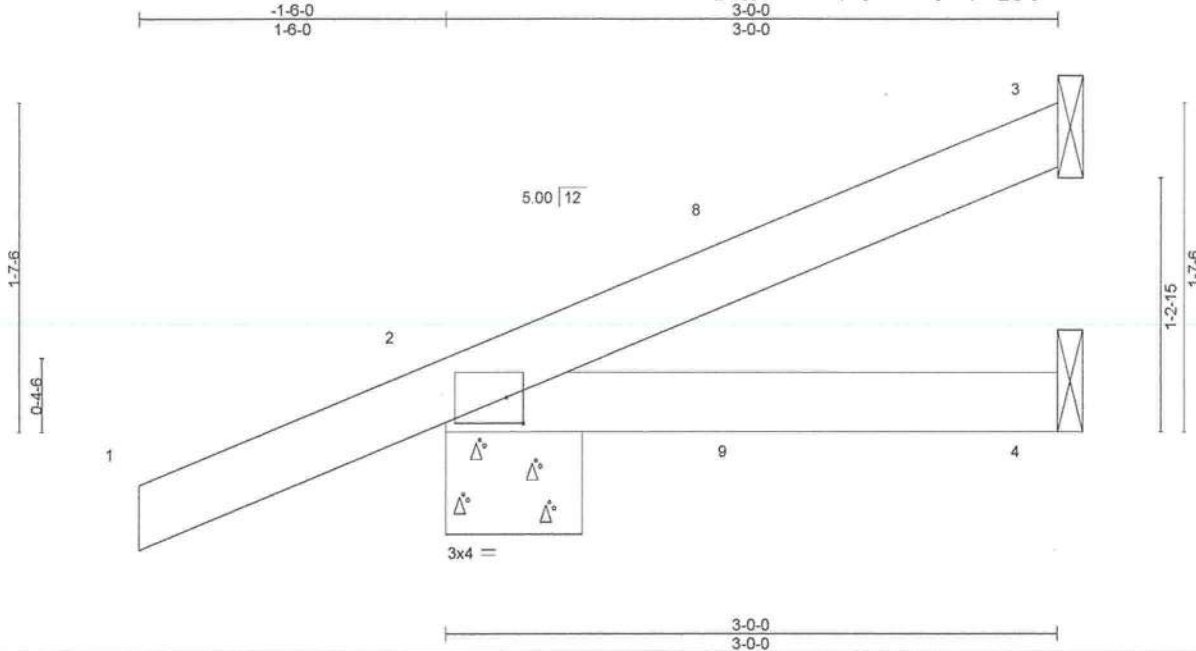


Plate Offsets (X,Y)--	[2:0-1-0,0-1-9]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.27	Vert(LL) 0.01 4-7 >999 240	MT20	244/190
TGDL 7.0	Lumber DOL 1.25	BC 0.08	Vert(CT) -0.01 4-7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP		Weight: 12 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
 Max Horz 2=102(LC 12)
 Max Uplift 3=-60(LC 12), 2=-171(LC 8), 4=-32(LC 9)
 Max Grav 3=59(LC 1), 2=210(LC 1), 4=49(LC 3)


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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=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 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=171.

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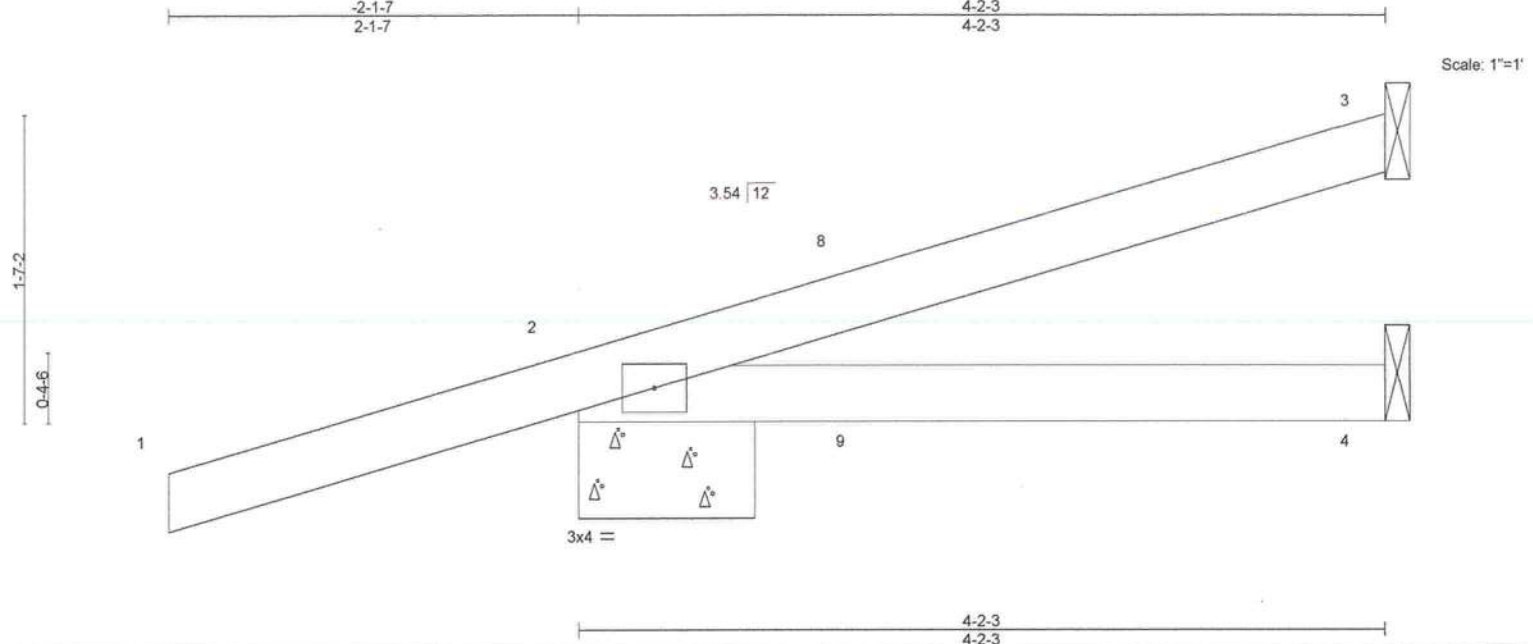
Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Ceri 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

March 21, 2024

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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/TPH 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)</p>	 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com
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Job 3930685	Truss HJ05	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	COLEMAN	T33302336
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:31 2024 Page 1
 ID:NGSCqyJrgg3YcTcCG8pVgkzZR14-8b010HFcb13X8FHOoZaVWLq7MH?csZMrcOmzgdzZ3gw



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.32	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.30	Vert(LL) -0.04 4-7 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Vert(CT) -0.05 4-7 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MP	Horz(CT) 0.00 2 n/a n/a		
	Code FBC2023/TP12014			Weight: 16 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 4-2-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-10-15, 4=Mechanical
 Max Horz 2=118(LC 4)
 Max Uplift 3=-51(LC 8), 2=-197(LC 4), 4=-17(LC 5)
 Max Grav 3=83(LC 1), 2=296(LC 1), 4=76(LC 33)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; 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
 - 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=197.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 106 lb down and 63 lb up at 1-6-1, and 106 lb down and 63 lb up at 1-6-1 on top chord, and 78 lb down and 35 lb up at 1-6-1, and 78 lb down and 35 lb up at 1-6-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-3=-54, 4-5=-20

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Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

March 21, 2024

Job 3930685	Truss HJ08	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	COLEMAN	T33302337
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,					Job Reference (optional)	

8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:32 2024 Page 1
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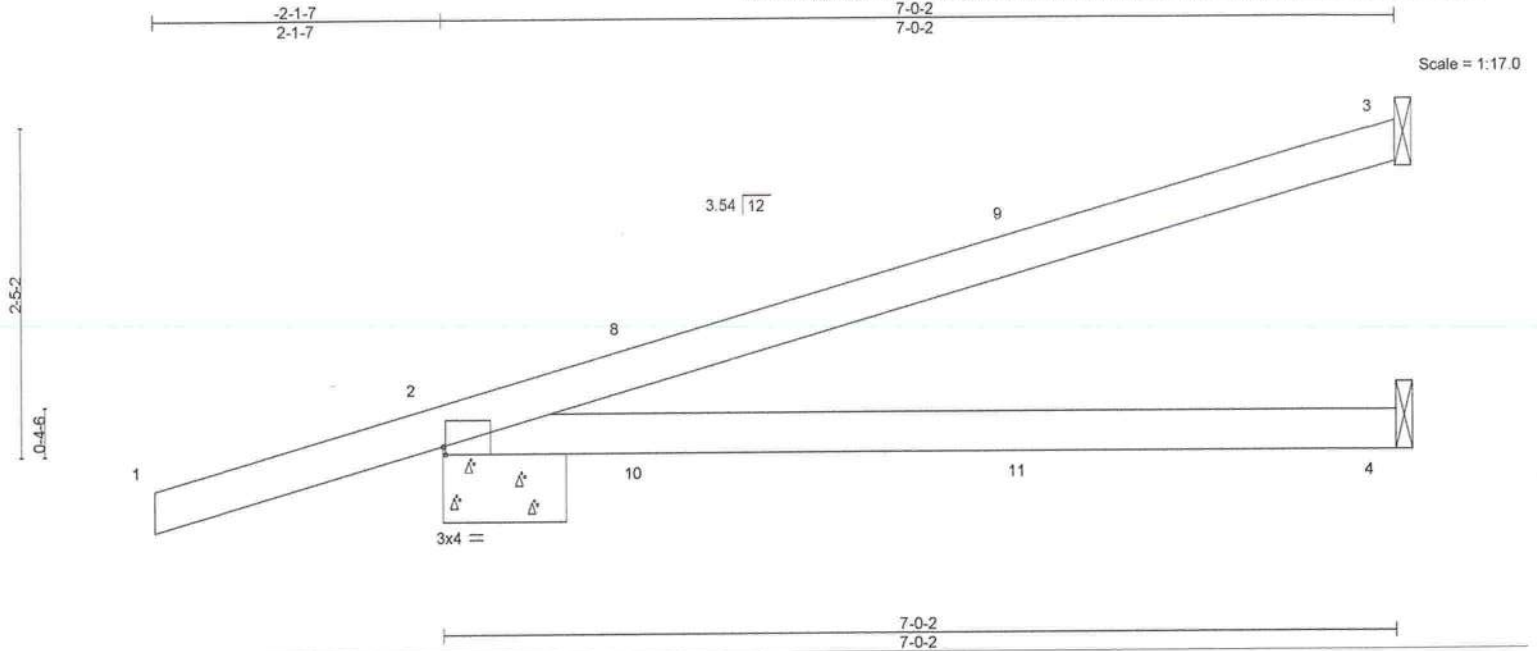


Plate Offsets (X,Y)-- [2:0-0-4,Edge]		CSI.		DEFL.				PLATES	GRIP
LOADING (psf)	SPACING-	2-0-0	TC 0.67	in	(loc)	l/defl	L/d	MT20	244/190
TCLL 20.0	Plate Grip DOL 1.25		BC 0.55	Vert(LL) -0.10	4-7	>870	240		
TCDL 7.0	Lumber DOL 1.25		WB 0.00	Vert(CT) -0.21	4-7	>397	180		
BCLL 0.0 *	Rep Stress Incr NO		Matrix-MS	Horz(CT) 0.01	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014							Weight: 25 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=0-10-15, 4=Mechanical
Max Horz 2=166(LC 4)
Max Uplift 3=-136(LC 8), 2=-217(LC 4), 4=-7(LC 9)
Max Grav 3=160(LC 1), 2=392(LC 1), 4=124(LC 3)

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


- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; 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
 - 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) 4 except (jt=lb) 3=136, 2=217.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 106 lb down and 63 lb up at 1-6-1, 106 lb down and 63 lb up at 1-6-1, and 31 lb down and 62 lb up at 4-4-0, and 31 lb down and 62 lb up at 4-4-0 on top chord, and 40 lb down and 35 lb up at 1-6-1, 40 lb down and 35 lb up at 1-6-1, and 22 lb down and 9 lb up at 4-4-0, and 22 lb down and 9 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 4-5=-20
Concentrated Loads (lb)
Vert: 11=-8(F=-4, B=-4)

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 21, 2024

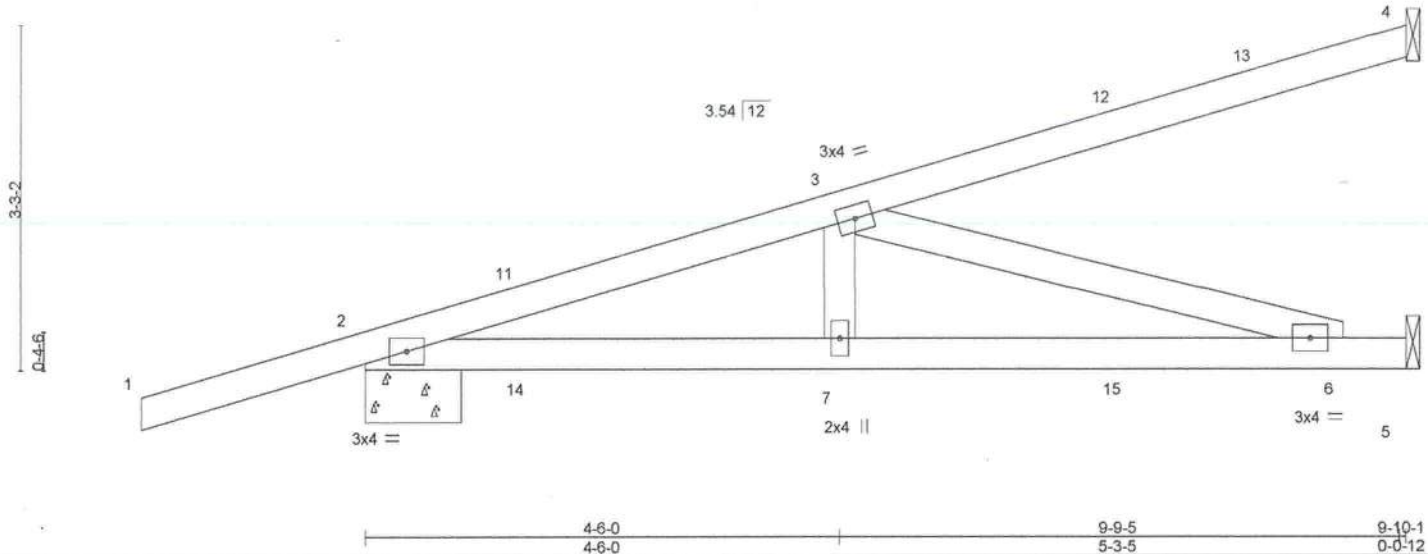
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 3930685	Truss HJ10	Truss Type Diagonal Hip Girder	Qty 3	Ply 1	COLEMAN	T33302338
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:32 2024 Page 1
 ID:NGSCqyJrgg3YcTcCG8pVgkzZR14-cnaPEdFELKBomPsalG5It2gTfPDMbvU?r2VWVC3zZ3gv



Scale = 1:21.8



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 0.60	Vert(LL) 0.10	6-7 >999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.72	Vert(CT) -0.15	6-7 >773	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.46	Horz(CT) 0.01	5 n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS				Weight: 42 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 5-11-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 7-9-7 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-10-15, 5=Mechanical
 Max Horz 2=208(LC 25)
 Max Uplift 4=141(LC 4), 2=-294(LC 4), 5=-145(LC 8)
 Max Grav 4=152(LC 1), 2=528(LC 1), 5=297(LC 1)

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

TOP CHORD 2-3=-927/476
 BOT CHORD 2-7=-536/869, 6-7=-536/869
 WEBS 3-7=-5/295, 3-6=-905/559

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; 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
- 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) except (jt=lb) 4=141, 2=294, 5=145.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 106 lb down and 63 lb up at 1-6-1, 106 lb down and 63 lb up at 1-6-1, 31 lb down and 62 lb up at 4-4-0, 31 lb down and 62 lb up at 4-4-0, and 55 lb down and 121 lb up at 7-1-15, and 55 lb down and 121 lb up at 7-1-15 on top chord, and 40 lb down and 35 lb up at 1-6-1, 40 lb down and 35 lb up at 1-6-1, 22 lb down and 9 lb up at 4-4-0, 22 lb down and 9 lb up at 4-4-0, and 37 lb down and 23 lb up at 7-1-15, and 37 lb down and 23 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-4=-54, 5-8=-20
 Concentrated Loads (lb)
 Vert: 7=-8(F=-4, B=-4) 12=-72(F=-36, B=-36) 15=-60(F=-30, B=-30)

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

March 21, 2024

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 Chesterfield, MO 63017
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Job 3930685	Truss T01	Truss Type Hip Girder	Qty 1	Ply 1	COLEMAN	T33302339
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:33 2024 Page 1

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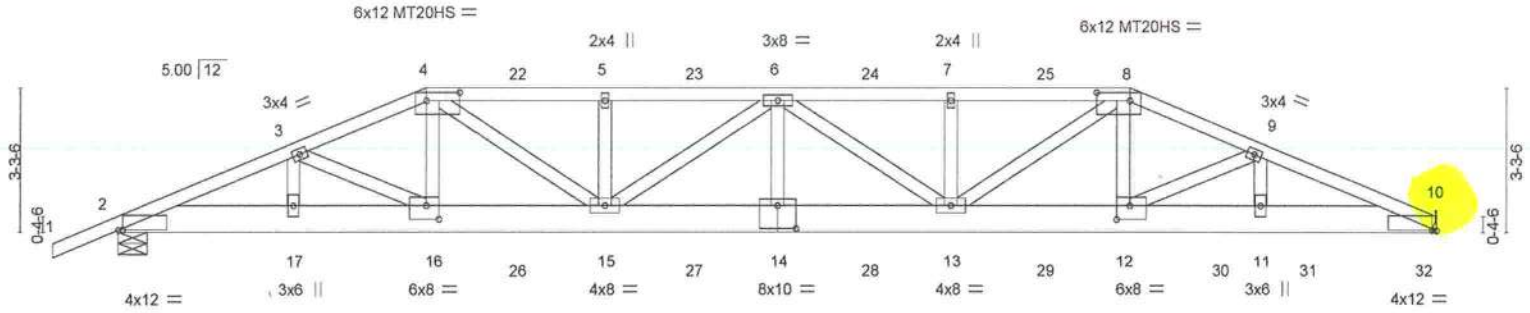


Plate Offsets (X,Y)--	[2:0-1-4,0-0-2], [4:0-9-0,0-2-4], [8:0-9-0,0-2-4], [10:0-1-4,0-0-2], [12:0-3-8,0-3-12], [14:0-5-0,0-6-4], [16:0-3-8,0-3-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.85	Vert(LL)	0.51	14	>706	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.44	Vert(CT)	-0.63	14	>574	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.58	Horz(CT)	0.10	10	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS						
								Weight: 198 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-8: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 1-11-3 oc purlins.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 5-10-11 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 10=Mechanical, 2=0-8-0
 Max Horz 2=105(LC 8)
 Max Uplift 10=1701(LC 9), 2=1361(LC 8)
 Max Grav 10=2604(LC 1), 2=2252(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-5066/3037, 3-4=-5168/3143, 4-5=-5993/3739, 5-6=-5993/3739, 6-7=-6026/3827,
 7-8=-6026/3827, 8-9=-5248/3340, 9-10=-5668/3650
 BOT CHORD 2-17=-2810/4655, 16-17=-2810/4655, 15-16=-2854/4790, 14-15=-4049/6609,
 13-14=-4049/6609, 12-13=-3008/4875, 11-12=-3300/5199, 10-11=-3300/5199
 WEBS 3-16=-254/283, 4-16=-395/791, 4-15=-974/1521, 5-15=-445/414, 6-15=-799/583,
 6-14=-165/474, 6-13=-767/484, 7-13=-444/412, 8-13=-860/1467, 8-12=-632/960,
 9-12=-423/391

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wnd: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; 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) 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.
 - 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 (it=lb) 10=1701, 2=1361.
 - 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 147 lb up at 7-0-0, 109 lb down and 147 lb up at 9-0-12, 109 lb down and 147 lb up at 11-0-12, 109 lb down and 147 lb up at 13-0-12, 109 lb down and 135 lb up at 15-0-12, 109 lb down and 147 lb up at 17-0-12, and 109 lb down and 147 lb up at 19-0-12, and 109 lb down and 147 lb up at 21-0-12 on top chord, and 333 lb down and 205 lb up at 7-0-0, 85 lb down and 31 lb up at 9-0-12, 85 lb down and 31 lb up at 11-0-12, 85 lb down and 31 lb up at 13-0-12, 85 lb down and 31 lb up at 15-0-12, 85 lb down and 31 lb up at 17-0-12, 85 lb down and 31 lb up at 19-0-12, 85 lb down and 31 lb up at 21-0-12, 225 lb down and 196 lb up at 23-0-12, 225 lb down and 196 lb up at 25-0-12, and 225 lb down and 196 lb up at 27-0-12, and 226 lb down and 195 lb up at 29-0-12 on bottom

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No. 88126
 MiTek, Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

March 21, 2024

Continued on page design selection of such connection device(s) is the responsibility of others.

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

Job	Truss	Truss Type	Qty	Ply	COLEMAN	T33302339
3930685	T01	Hip Girder	1	1		

Job Reference (optional)

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

8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:33 2024 Page 2
ID:NGSCqyJrgg3YcTcCG8pVgkzZR14-4_8oRzGs6eJFNZRrvzc_QFDaYperKKo84IF4IVzZ3gu

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: 1-4=-54, 4-8=-54, 8-10=-54, 2-10=-20

Concentrated Loads (lb)

Vert: 4=-109(F) 16=-333(F) 15=-65(F) 5=-109(F) 14=-65(F) 6=-109(F) 7=-109(F) 13=-65(F) 12=-225(F) 22=-109(F) 23=-109(F) 24=-109(F) 25=-109(F) 26=-65(F) 27=-65(F) 28=-65(F) 29=-65(F) 30=-225(F) 31=-225(F) 32=-226(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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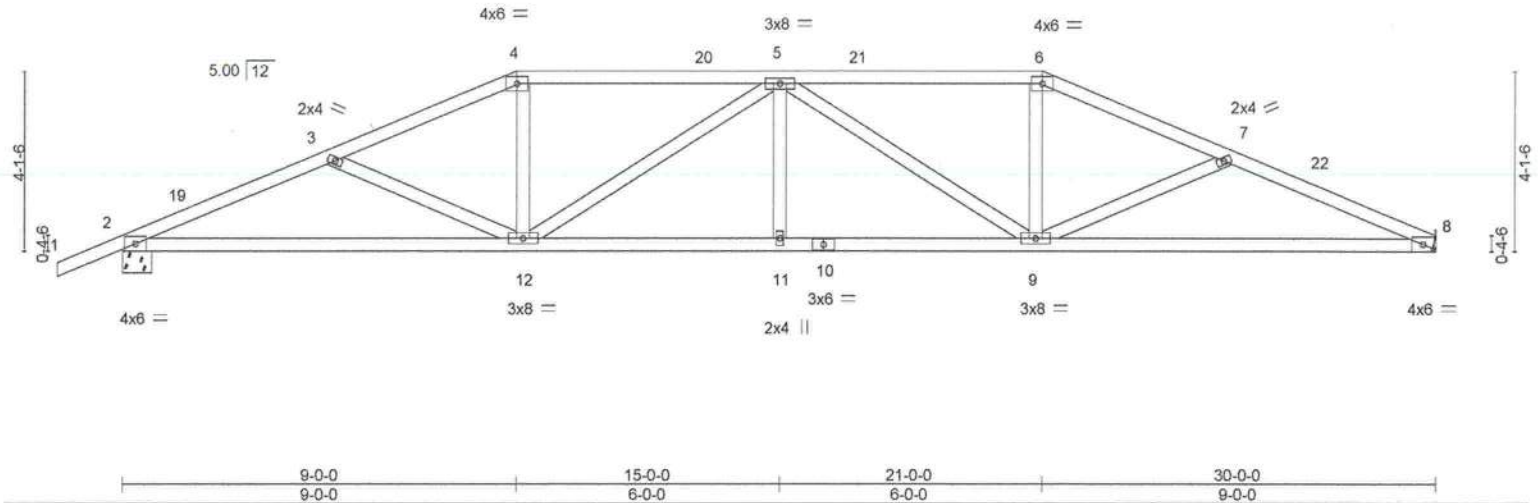
Job 3930685	Truss T02	Truss Type Hip	Qty 1	Ply 1	COLEMAN	T33302340
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:34 2024 Page 1
ID:NGSCqyJrgg3YcTcCG8pVgkzZR14-YAiAeJHUtyR6?j?zTh8DyTlspDuG3pcHIM?dHyZ3gt



Scale = 1:52.8



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 0.43	Vert(LL)	0.20	11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.82	Vert(CT)	-0.36	9-15	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.10	8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 143 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-7-6 oc bracing.

REACTIONS.

(size) 8=Mechanical, 2=0-8-0
Max Horz 2=125(LC 16)
Max Uplift 8=-550(LC 13), 2=-614(LC 12)
Max Grav 8=1108(LC 1), 2=1193(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2352/1174, 3-4=-2057/1002, 4-5=-1875/965, 5-6=-1882/976, 6-7=-2066/1016,
7-8=-2373/1196
BOT CHORD 2-12=-1107/2147, 11-12=-1055/2226, 9-11=-1055/2226, 8-9=-1037/2170
WEBS 3-12=-323/314, 4-12=-192/522, 5-12=-521/325, 5-9=-517/320, 6-9=-192/527,
7-9=-340/330

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; 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 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 21-0-0, Zone2 21-0-0 to 25-4-3, Zone1 25-4-3 to 30-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) except (jt=lb) 8=550, 2=614.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 21,2024

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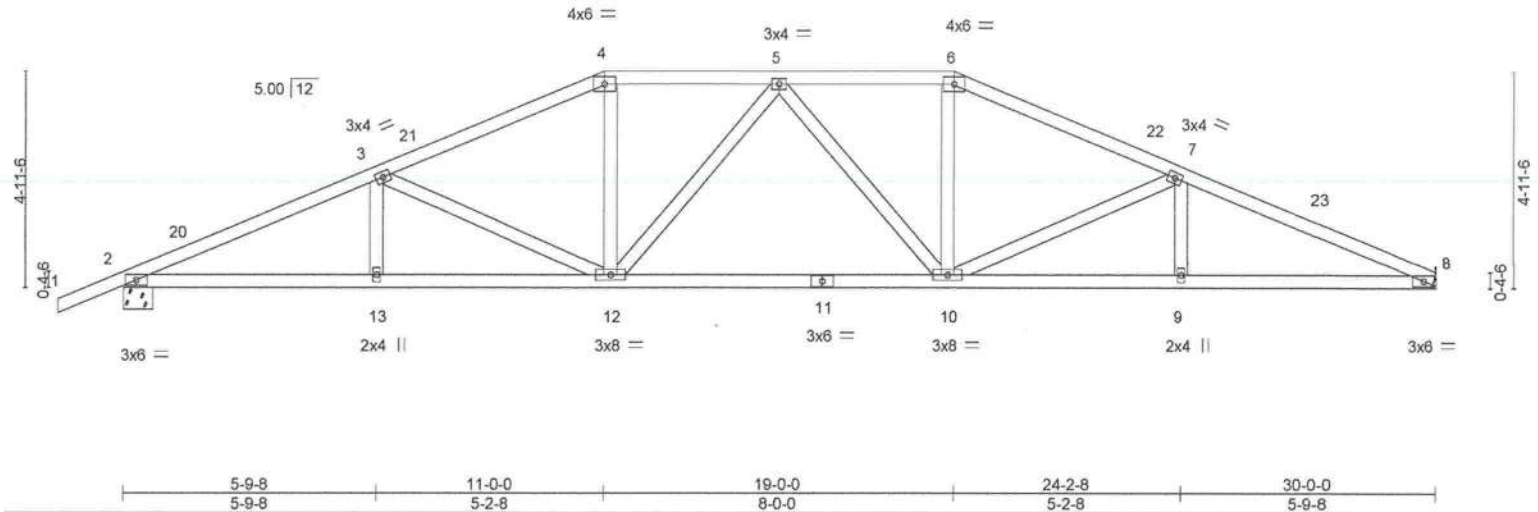
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 3930685	Truss T03	Truss Type Hip	Qty 1	Ply 1	COLEMAN	T33302341
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:35 2024 Page 1
 ID:NGSCqyJrgg3YcTcCG8pVgkzZR14-0MGYsfl7eFZzdt91OfSVgl1hcG2oloRX0kBPozZ3gs



Scale = 1:52.8



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)	0.15 10-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.65	Vert(CT)	-0.32 10-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.36	Horz(CT)	0.09 8	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS					Weight: 148 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 5-7-15 oc bracing.

REACTIONS.

(size) 8=Mechanical, 2=0-8-0
 Max Horz 2=146(LC 12)
 Max Uplift 8=-547(LC 13), 2=-611(LC 12)
 Max Grav 8=1108(LC 1), 2=1193(LC 1)

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

TOP CHORD 2-3=-2364/1125, 3-4=-1875/918, 4-5=-1689/898, 5-6=-1692/892, 6-7=-1878/919,
 7-8=-2384/1146
 BOT CHORD 2-13=-1073/2136, 12-13=-1073/2136, 10-12=-745/1782, 9-10=-980/2157, 8-9=-980/2157
 WEBS 3-12=-515/401, 4-12=-191/469, 5-12=-260/203, 5-10=-258/200, 6-10=-191/472,
 7-10=-535/420

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; 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 1-6-0, Zone1 1-6-0 to 11-0-0, Zone2 11-0-0 to 15-0-0, Zone1 15-0-0 to 19-0-0, Zone2 19-0-0 to 23-2-15, Zone1 23-2-15 to 30-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) except (jt=lb) 8=547, 2=611.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6654
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

March 21,2024

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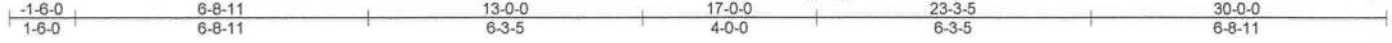
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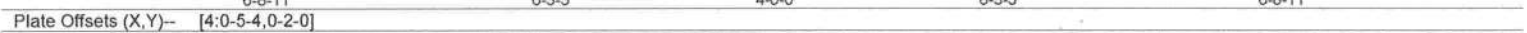
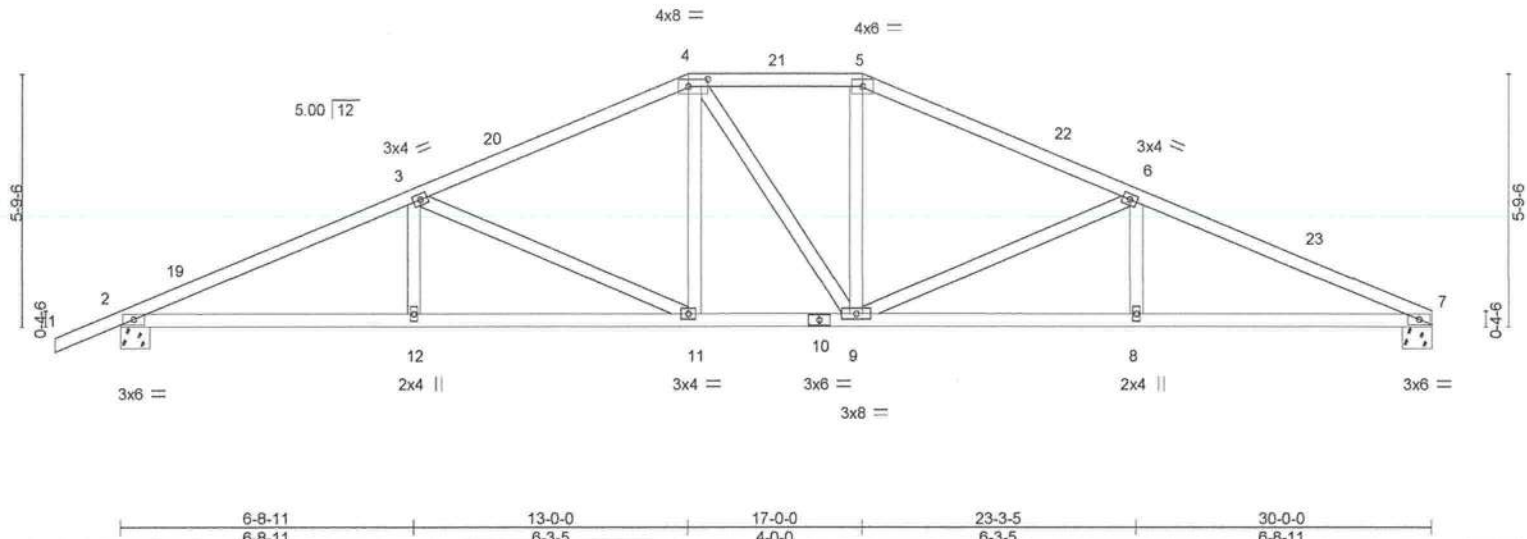
Job 3930685	Truss T04	Truss Type Hip	Qty 1	Ply 1	COLEMAN	T33302342
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:35 2024 Page 1

ID:NGSCqyJrgg3YcTcCG8pVgkzZR14-0MGysf17eFZzdtA91OfSVgl?xcGsoDHRX0kBPozZ3gs



Scale = 1:52.8



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 0.53	Vert(LL)	0.15 11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.26 11-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.09 7	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 148 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-5-1 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-7-10 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 7=0-8-0, 2=0-8-0
 Max Horz 2=166(LC 12)
 Max Uplift 7=-543(LC 13), 2=-607(LC 12)
 Max Grav 7=1108(LC 1), 2=1193(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2332/1091, 3-4=-1695/861, 4-5=-1507/844, 5-6=-1697/858, 6-7=-2349/1109
 BOT CHORD 2-12=-1053/2101, 11-12=-1053/2101, 9-11=-606/1506, 8-9=-936/2118, 7-8=-936/2118
 WEBS 3-12=0/277, 3-11=-668/494, 4-11=-169/392, 5-9=-162/393, 6-9=-685/511, 6-8=0/278

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; 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 13-0-0, Zone3 13-0-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 30-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=543, 2=607.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.88126
 MiTek Inc. DBA MITek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

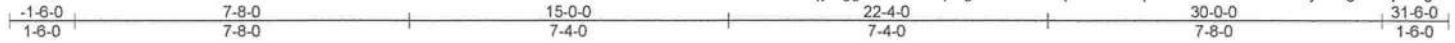
March 21, 2024

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Job 3930685	Truss T05	Truss Type Common	Qty 6	Ply 1	COLEMAN	T33302343
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:36 2024 Page 1
 ID:NGSCqyJrgg3YcTcCG8pVgkzZR14-UZqw3?IPZhqE09Ma6Ah1ur8IOZQXjsamgUkLqzZ3gr



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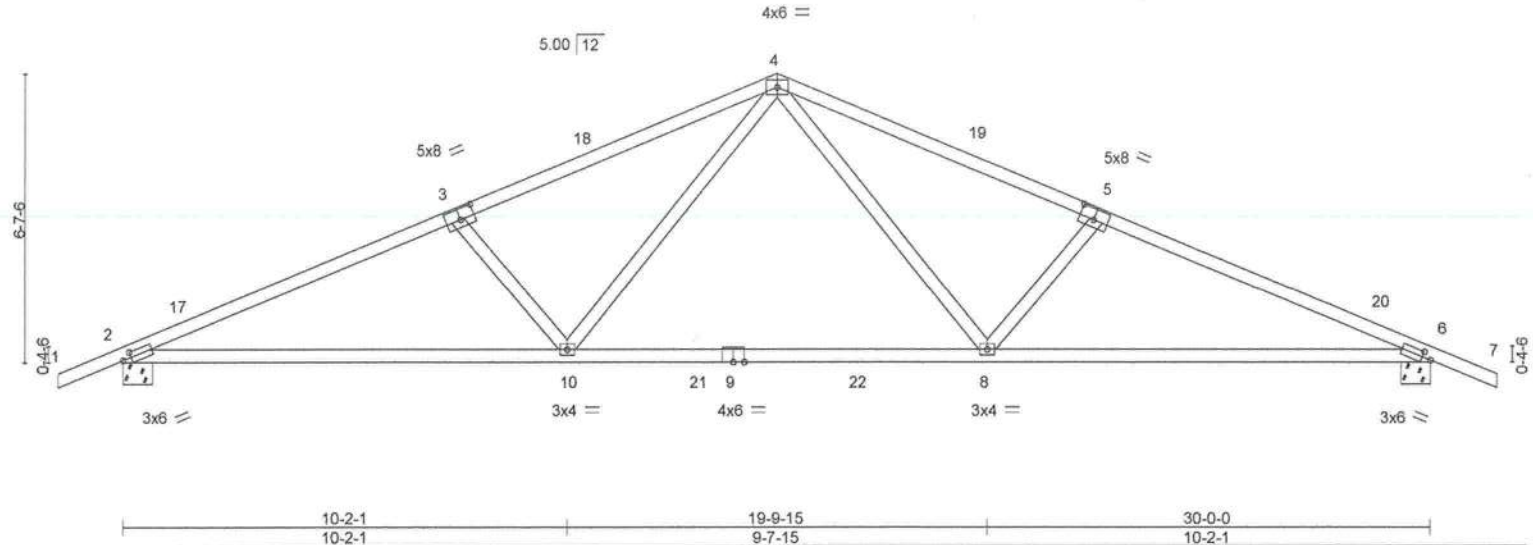


Plate Offsets (X,Y) - [2:0-2-6,0-1-8], [3:0-4-0,0-3-0], [5:0-4-0,0-3-0], [6:0-2-6,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.66	Vert(LL) -0.28	8-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.84	Vert(CT) -0.47	8-16	>760	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.50	Horz(CT) 0.07	6	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS					Weight: 133 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-14 oc bracing.

REACTIONS. (size) 2=0-8-0, 6=0-8-0
 Max Horz 2=-172(LC 13)
 Max Uplift 2=-603(LC 12), 6=-603(LC 13)
 Max Grav 2=1278(LC 2), 6=1278(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2408/1061, 3-4=-2207/989, 4-5=-2207/989, 5-6=-2408/1061
 BOT CHORD 2-10=-1014/2193, 8-10=-488/1449, 6-8=-875/2193
 WEBS 4-8=-402/872, 5-8=-443/462, 4-10=-402/872, 3-10=-443/461

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpj=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 31-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=603, 6=603.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA, FL Cert 6634
 16023 Swingley Ridge Rd, Chesterfield, MO 63017
 Date:

March 21, 2024

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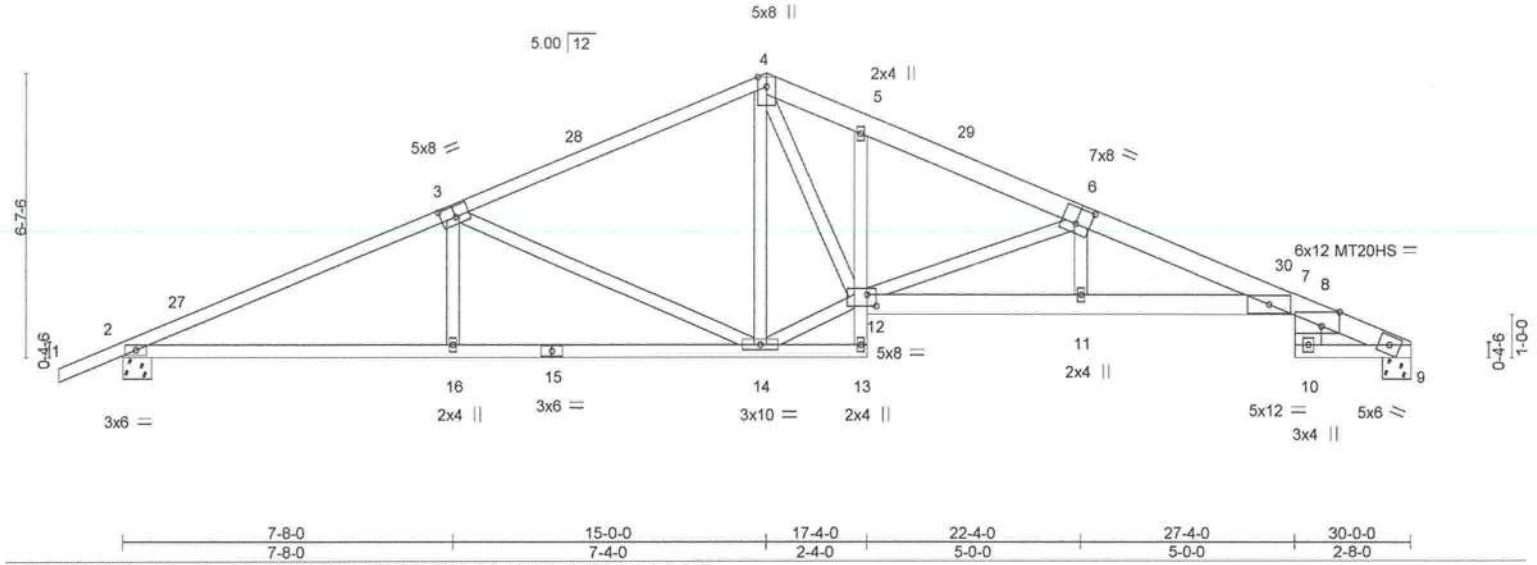
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Job 3930685	Truss T06	Truss Type Roof Special	Qty 8	Ply 1	COLEMAN	T33302344
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:36 2024 Page 1
 ID:NGSCqyJrgg3YcTcCG8pVgkzZR14-UZqw3?IPZhqE09Ma6Ah1ur7i0bSXcGamgUkLqz3gr



Scale = 1:53.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.71	Vert(LL) 0.32 11-22 >999 240	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.25	WB 0.92	Vert(CT) -0.48 11-22 >745 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.26 9 n/a n/a		
	Code FBC2023/TPI2014			Weight: 173 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-6: 2x6 SP No.2, 6-9: 2x6 SP M 26	TOP CHORD Structural wood sheathing directly applied or 3-3-14 oc purlins.
BOT CHORD 2x4 SP No.2 *Except* 5-13: 2x4 SP No.3, 7-12: 2x6 SP M 26, 8-10: 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 5-7-5 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS.
(size) 2=0-8-0, 9=0-8-0 Max Horz 2=188(LC 12) Max Uplift 2=-599(LC 12), 9=-531(LC 13) Max Grav 2=1180(LC 1), 9=1096(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2252/1058, 3-4=-1518/794, 4-5=-2008/1093, 5-6=-2075/1042, 6-7=-3312/1580, 7-8=-362/234, 8-9=-1710/901
BOT CHORD	2-16=-1019/2020, 14-16=-1019/2020, 11-12=-1364/3109, 7-11=-1367/3117, 9-10=-707/1395
WEBS	3-16=0/315, 3-14=-775/572, 12-14=-487/1340, 4-12=-652/1311, 6-12=-1362/775, 6-11=-155/478

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; 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 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-8-0 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) All plates are MT20 plates unless otherwise indicated.
 - 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) except (jt=lb) 2=599, 9=531.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

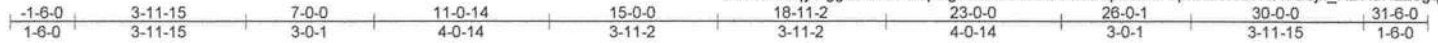
March 21, 2024

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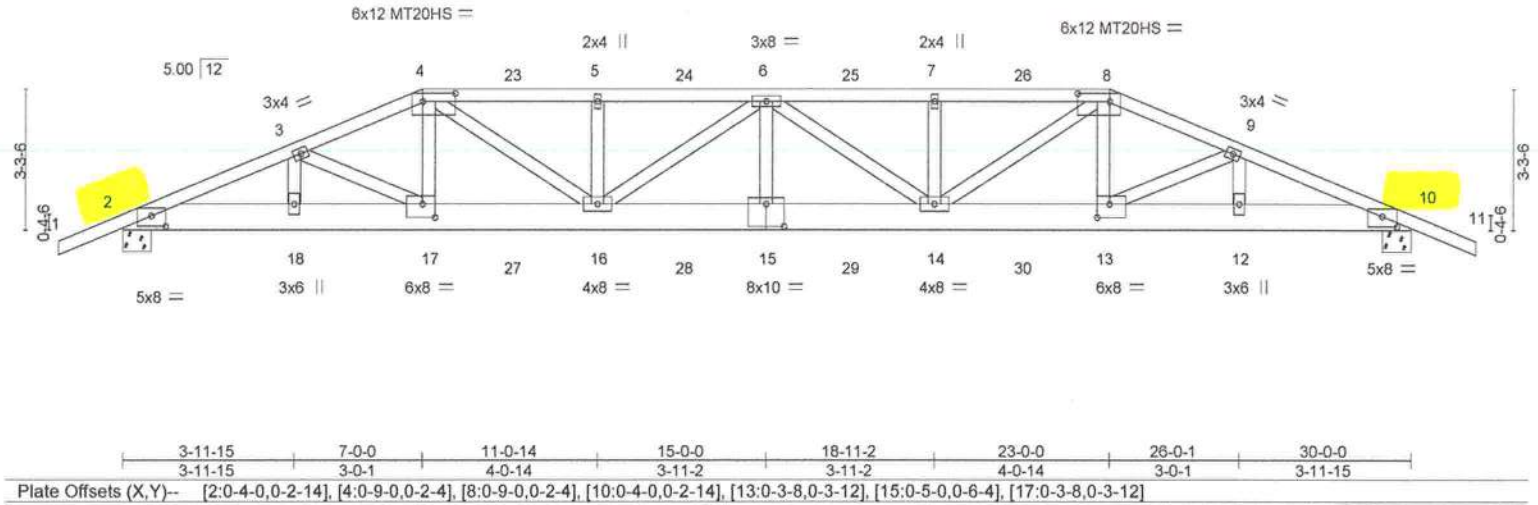
16023 Swingley Ridge Rd.
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 314.434.1200 / MiTek-US.com

Job 3930685	Truss T07	Truss Type Hip Girder	Qty 1	Ply 1	COLEMAN	T33302345
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:37 2024 Page 1
 ID:NGSCqyJrgg3YcTcCG8pVgkzZR14-zlOIHkJNAtpshAkY8phwa5NGNQ1rG8jk_KDHuHz3gq



Scale = 1:53.8



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 0.86	Vert(LL)	0.50	15	>713	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.38	Vert(CT)	-0.63	15	>569	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.58	Horz(CT)	0.11	10	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS							
									Weight: 200 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 *Except*
 4-8: 2x4 SP No.1
 BOT CHORD 2x8 SP 2400F 2.0E
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 1-10-14 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 5-11-4 oc bracing.

REACTIONS. (size) 2=0-8-0, 10=0-8-0
 Max Horz 2=89(LC 12)
 Max Uplift 2=-1362(LC 8), 10=-1392(LC 9)
 Max Grav 2=2260(LC 1), 10=2300(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-5085/3039, 3-4=-5189/3140, 4-5=-6023/3708, 5-6=-6023/3708, 6-7=-6071/3758, 7-8=-6071/3758, 8-9=-5294/3234, 9-10=-5188/3111
 BOT CHORD 2-18=-2796/4672, 17-18=-2796/4672, 16-17=-2840/4810, 15-16=-3989/6650, 14-15=-3989/6650, 13-14=-2893/4907, 12-13=-2774/4767, 10-12=-2774/4767
 WEBS 3-17=-255/296, 4-17=-395/792, 4-16=-959/1533, 5-16=-444/413, 6-16=-814/559, 6-15=-164/478, 6-14=-744/489, 7-14=-444/413, 8-14=-894/1462, 8-13=-392/790, 9-13=-261/298


- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; 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) 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.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1362, 10=1392.
 - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 147 lb up at 7-0-0, 109 lb down and 147 lb up at 9-0-12, 109 lb down and 147 lb up at 11-0-12, 109 lb down and 147 lb up at 13-0-12, 109 lb down and 135 lb up at 15-0-0, 109 lb down and 147 lb up at 16-11-4, 109 lb down and 147 lb up at 18-11-4, and 109 lb down and 147 lb up at 20-11-4, and 232 lb down and 285 lb up at 23-0-0 on top chord, and 333 lb down and 205 lb up at 7-0-0, 85 lb down and 31 lb up at 9-0-12, 85 lb down and 31 lb up at 11-0-12, 85 lb down and 31 lb up at 13-0-12, 85 lb down and 31 lb up at 15-0-0, 85 lb down and 31 lb up at 16-11-4, 85 lb down and 31 lb up at 18-11-4, and 85 lb down and 31 lb up at 20-11-4, and 333 lb down and 205 lb up at 22-11-4 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).

This item has been digitally signed and sealed by O'Regan, Philip, 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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 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

March 21, 2024

Continued on page 2
LOAD CASE(S). Standard
WARNING: Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 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.sbcsccomponents.com)


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Job 3930685	Truss T07	Truss Type Hip Girder	Qty 1	Ply 1	COLEMAN Job Reference (optional)	T33302345
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:37 2024 Page 2
ID:NGSCqyJrgg3YcTcCG8pVgkzZR14-zlOIHKJNAtphsAkY8phwa5NGNQ1rG8jk_KDHuHzZ3gg

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-8=-54, 8-11=-54, 2-10=-20

Concentrated Loads (lb)

Vert: 4=-109(B) 8=-185(B) 17=-333(B) 16=-65(B) 5=-109(B) 15=-65(B) 6=-109(B) 7=-109(B) 14=-65(B) 13=-333(B) 23=-109(B) 24=-109(B) 25=-109(B) 26=-109(B) 27=-65(B) 28=-65(B) 29=-65(B) 30=-65(B)

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

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Job 3930685	Truss T08	Truss Type Hip	Qty 1	Ply 1	COLEMAN	T33302346
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:38 2024 Page 1
ID:NGSCqyJrgg3YcTcCG8pVgkzZR14-RxxhUgK?xAXYUKJkXC97JwYqqFH?dftD_zrQjz3gp



Scale = 1:53.8

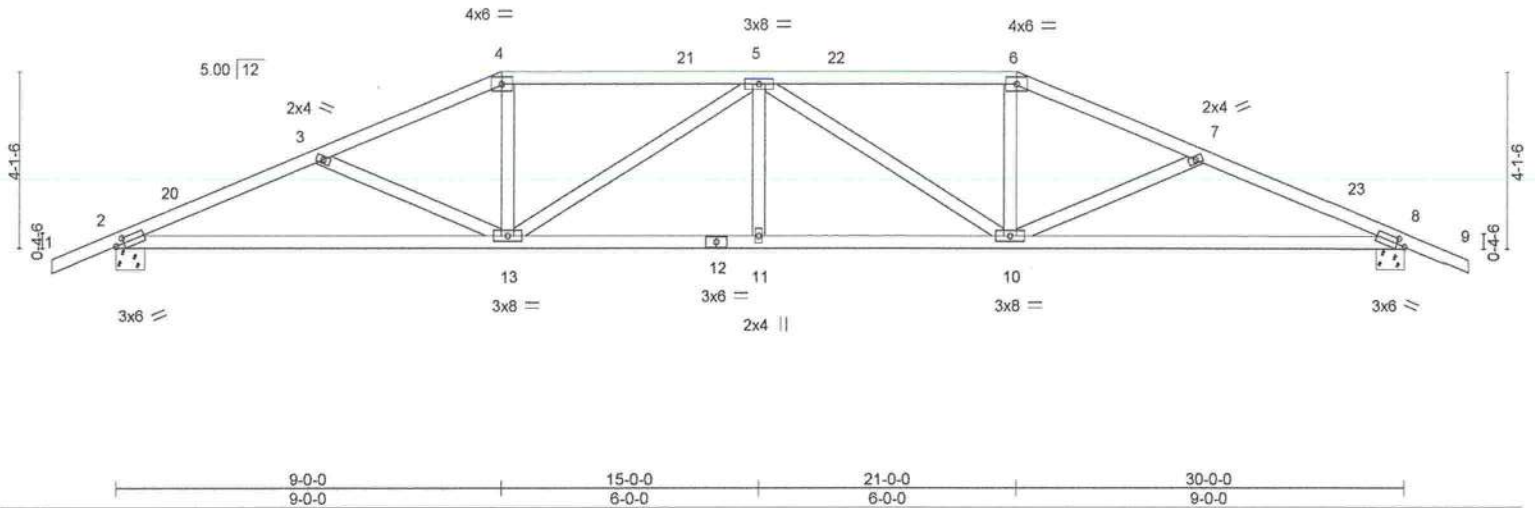


Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [8:0-2-6,0-1-8]

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 0.43	Vert(LL)	0.20	11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.81	Vert(CT)	-0.35	10-19	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.10	8	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 146 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-8 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-7-15 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-8-0, 8=0-8-0
 Max Horz 2=109(LC 12)
 Max Uplift 2=-613(LC 12), 8=-613(LC 13)
 Max Grav 2=1191(LC 1), 8=1191(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2347/1172, 3-4=-2052/1000, 4-5=-1870/963, 5-6=-1870/963, 6-7=-2052/1000, 7-8=-2347/1173
 BOT CHORD 2-13=-1090/2142, 11-13=-1033/2218, 10-11=-1033/2218, 8-10=-981/2142
 WEBS 3-13=-323/314, 4-13=-190/522, 5-13=-518/322, 5-10=-518/322, 6-10=-190/522, 7-10=-323/315

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; 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 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 21-0-0, Zone2 21-0-0 to 25-4-3, Zone1 25-4-3 to 31-6-0 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.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=613, 8=613.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

March 21, 2024

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Job 3930685	Truss T09	Truss Type Hip	Qty 1	Ply 1	COLEMAN	T33302347
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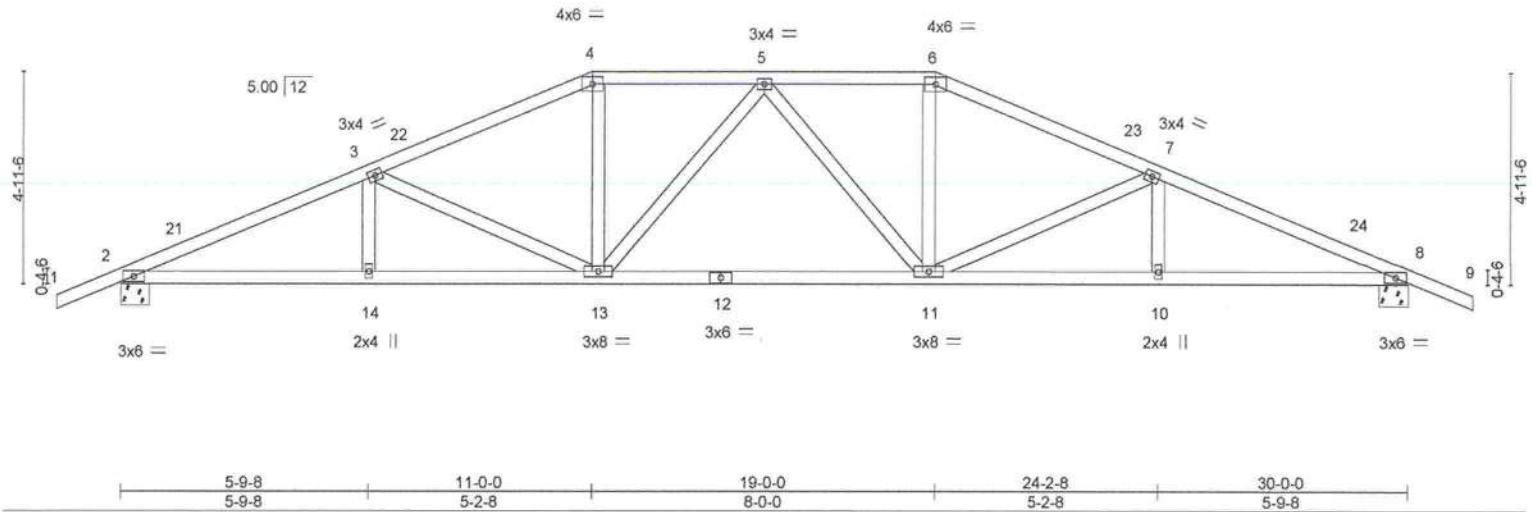
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:39 2024 Page 1

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Scale = 1:53.8



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 0.41	Vert(LL)	0.15 13	>999 240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.65	Vert(CT)	-0.32 11-13	>999 180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.09 8	n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS				Weight: 150 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-8-8 oc bracing.

REACTIONS. (size) 2=0-8-0, 8=0-8-0
Max Horz 2=-130(LC 13)
Max Uplift 2=-610(LC 12), 8=-610(LC 13)
Max Grav 2=1191(LC 1), 8=1191(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2359/1123, 3-4=-1869/906, 4-5=-1684/887, 5-6=-1684/887, 6-7=-1869/906,
7-8=-2359/1124
BOT CHORD 2-14=-1056/2131, 13-14=-1056/2131, 11-13=-723/1776, 10-11=-927/2131,
8-10=-927/2131
WEBS 3-13=-515/401, 4-13=-190/467, 5-13=-258/201, 5-11=-258/201, 6-11=-189/467,
7-11=-515/402

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; 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 11-0-0, Zone2 11-0-0 to 15-0-0, Zone1 15-0-0 to 19-0-0, Zone2 19-0-0 to 23-2-15, Zone1 23-2-15 to 31-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=610, 8=610.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

March 21,2024

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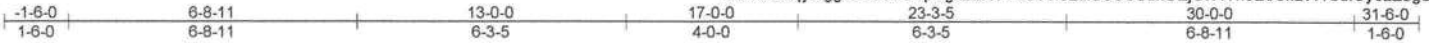
Job 3930685	Truss T10	Truss Type Hip	Qty 1	Ply 1	COLEMAN	T33302348
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

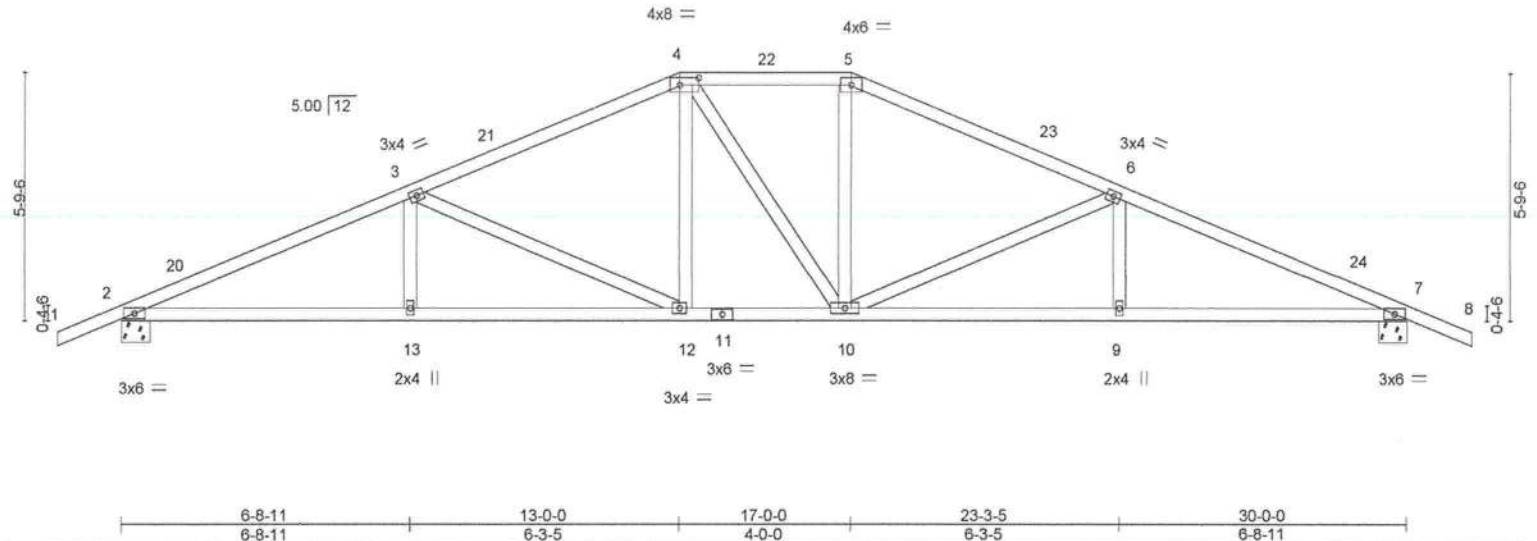
8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:39 2024 Page 1

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Job Reference (optional)



Scale = 1:53.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.52	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.62	Vert(LL) 0.15 12 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.63	Vert(CT) -0.26 12-13 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.09 7 n/a n/a		
	Code FBC2023/TPI2014			Weight: 150 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-6-6 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-8-2 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-8-0, 7=0-8-0
 Max Horz 2=-151(LC 13)
 Max Uplift 2=-607(LC 12), 7=-607(LC 13)
 Max Grav 2=1191(LC 1), 7=1191(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2327/1089, 3-4=-1690/849, 4-5=-1502/841, 5-6=-1691/849, 6-7=-2327/1090
 BOT CHORD 2-13=-1036/2097, 12-13=-1036/2097, 10-12=-589/1501, 9-10=-895/2096, 7-9=-895/2096
 WEBS 3-13=0/277, 3-12=-668/494, 4-12=-169/391, 5-10=-161/392, 6-10=-667/495, 6-9=0/276

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpj=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 13-0-0, Zone3 13-0-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 31-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=607, 7=607.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
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 Date:

March 21, 2024

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

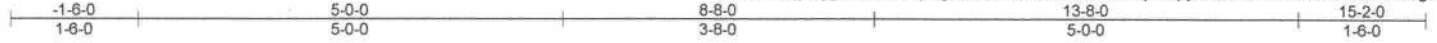
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 ANSII/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 3930685	Truss T11	Truss Type Hip Girder	Qty 1	Ply 1	COLEMAN	T33302349
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:40 2024 Page 1

ID:NGSCqyJrgg3YcTcCG8pVgkzZR14-NK3RvMMFtNBfjeT7pyEdCk7vVd1OTdeAhISxUczZ3gn



Scale = 1:27.1

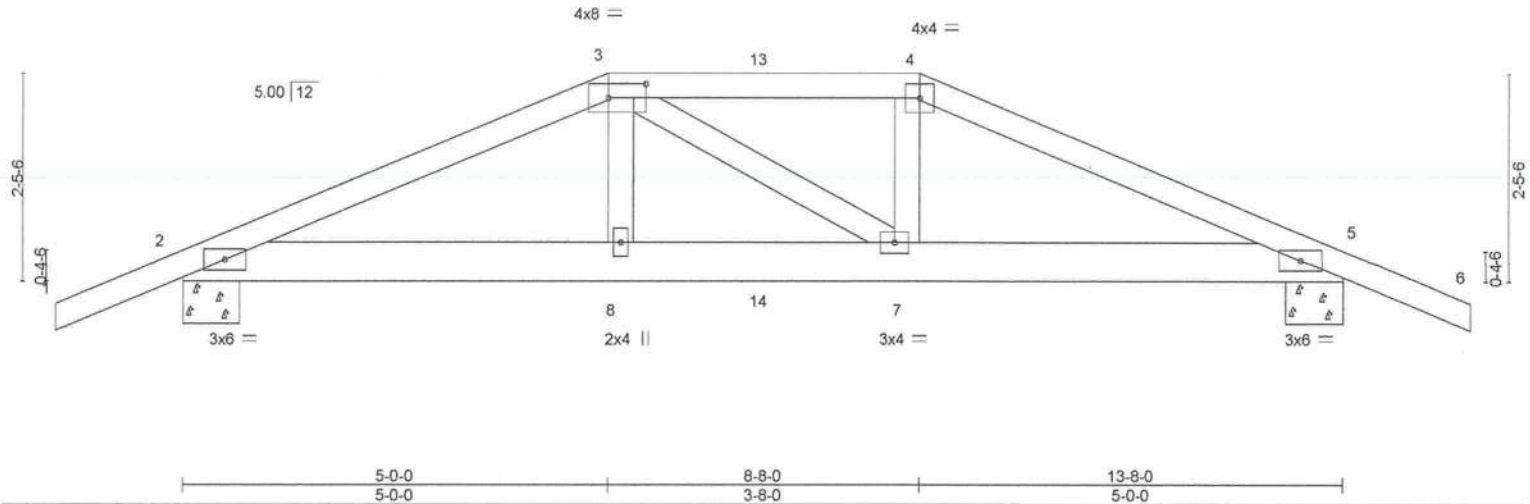


Plate Offsets (X,Y)--	[3:0-5-4,0-2-0]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.35	Vert(LL) 0.06 7-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.39	Vert(CT) -0.07 7-8	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.12	Horz(CT) 0.02 5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS				Weight: 69 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-6-6 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-2-13 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-8-0, 5=0-8-0
 Max Horz 2=68(LC 12)
 Max Uplift 2=-502(LC 8), 5=-507(LC 9)
 Max Grav 2=818(LC 1), 5=840(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1485/884, 3-4=-1393/862, 4-5=-1536/905
 BOT CHORD 2-8=-774/1332, 7-8=-777/1349, 5-7=-773/1379
 WEBS 3-8=-55/326, 4-7=-16/306

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=502, 5=507.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 112 lb up at 5-0-0, and 58 lb down and 103 lb up at 6-10-0, and 201 lb down and 245 lb up at 8-8-0 on top chord, and 116 lb down and 48 lb up at 5-0-0, and 47 lb down and 23 lb up at 6-10-0, and 116 lb down and 48 lb up at 8-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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=-54, 3-4=-54, 4-6=-54, 2-5=-20
 Concentrated Loads (lb)
 Vert: 3=-58(F) 4=-142(F) 8=-94(F) 7=-94(F) 13=-58(F) 14=-38(F)

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

March 21, 2024

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

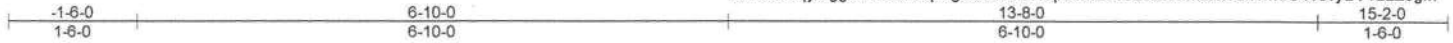
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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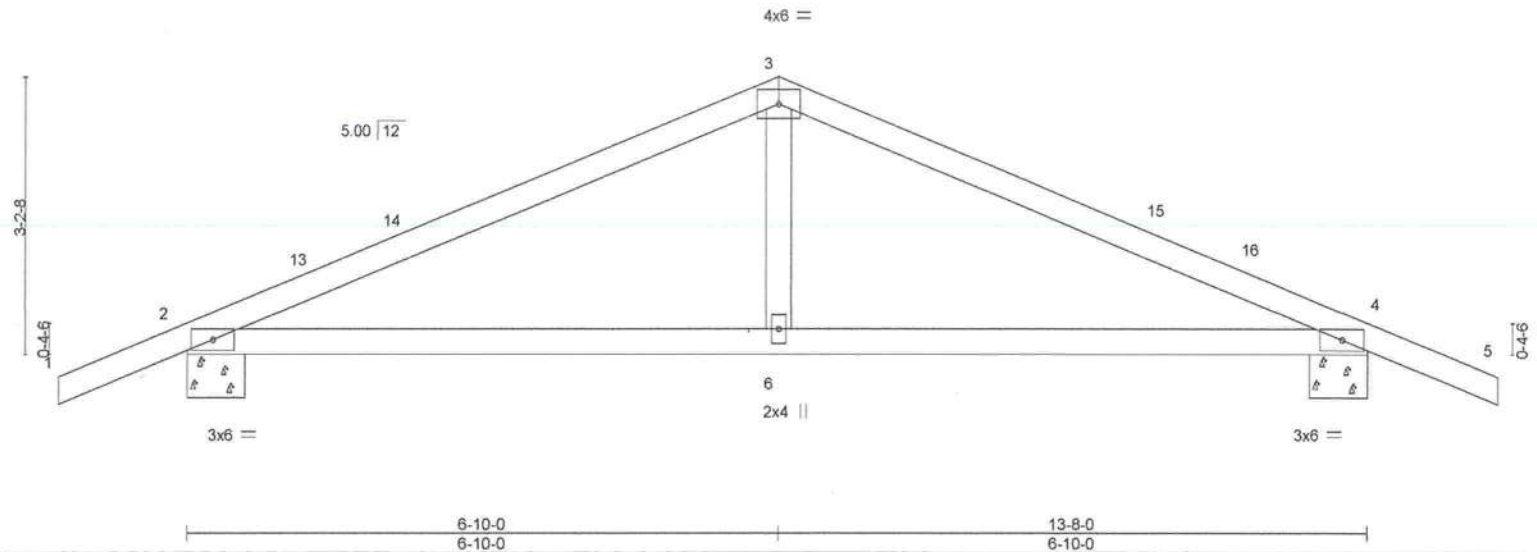
Job 3930685	Truss T12	Truss Type Common	Qty 1	Ply 1	COLEMAN	T33302350
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:41 2024 Page 1
ID:NGSCqyJrgg3YcTcCG8pVgkzZR14-rWdp6iME5J6Lo2JNfmskxY2n1MOC4?JvyBV12zZ3gm



Scale = 1:26.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.51	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.49	Vert(LL) 0.10 6-9 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.12	Vert(CT) -0.12 6-9 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 4 n/a n/a		
	Code FBC2023/TPI2014			Weight: 51 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-9-6 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-2-13 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-8-0, 4=0-8-0
 Max Horz 2=-87(LC 13)
 Max Uplift 2=-310(LC 12), 4=-310(LC 13)
 Max Grav 2=587(LC 1), 4=587(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-787/523, 3-4=-787/523
 BOT CHORD 2-6=-321/669, 4-6=-321/669
 WEBS 3-6=-27/309

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=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 6-10-0, Zone2 6-10-0 to 11-0-15, Zone1 11-0-15 to 15-2-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=310, 4=310.

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Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

March 21, 2024

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Job 3930685	Truss T13	Truss Type Common Girder	Qty 1	Ply 2	COLEMAN	T33302351
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:41 2024 Page 1
 ID:NGSCqyJrgg3YcTcCG8pVgkzZR14-rWdp6iMIE5J6Lo2JNfmskxY3p1OQCvXJyBV12zZ3gm



Scale = 1:24.3

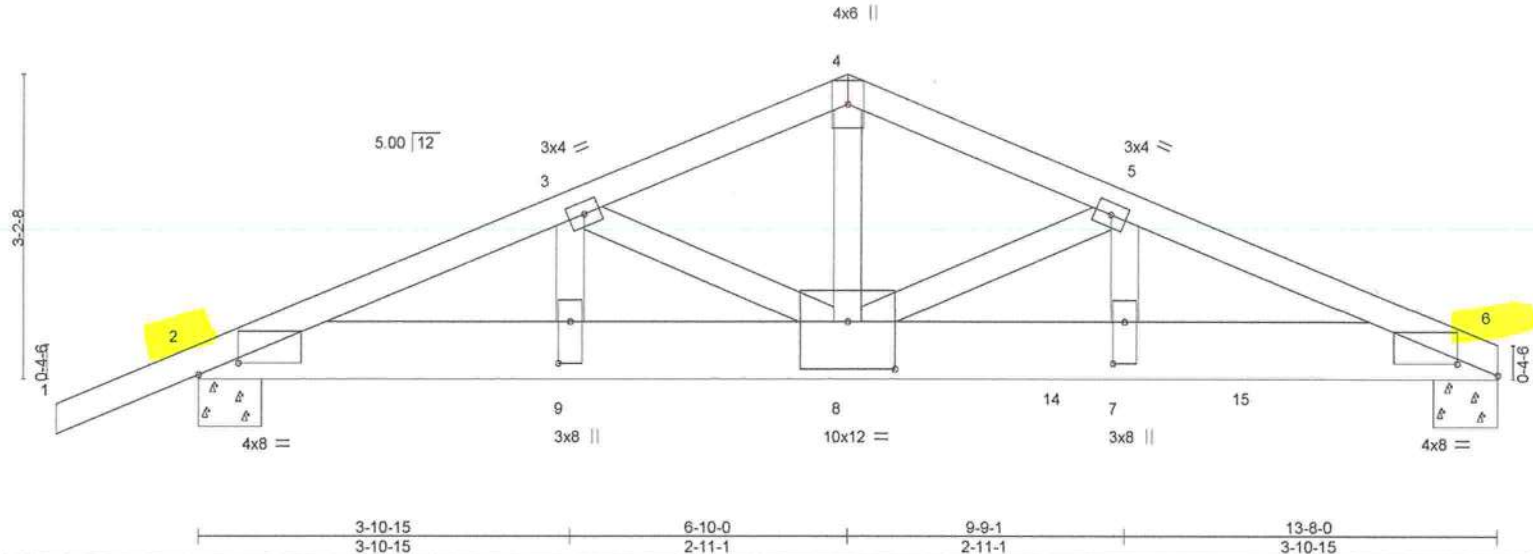


Plate Offsets (X,Y)-- [2:0-5-0,0-1-7], [6:0-5-0,0-1-8], [7:0-5-4,0-1-8], [8:0-6-0,0-6-0], [9:0-5-4,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.33	Vert(LL) 0.11 7-8 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.79	Vert(CT) -0.15 7-8 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.03 6 n/a n/a		
	Code FBC2023/TPI2014			Weight: 164 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x8 SP 2400F 2.0E
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-4-5 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-8-0, 2=0-8-0
 Max Horz 2=102(LC 12)
 Max Uplift 6=-1914(LC 9), 2=-1458(LC 8)
 Max Grav 6=3396(LC 1), 2=2457(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-5579/3282, 3-4=-5678/3371, 4-5=-5676/3367, 5-6=-7477/4262
 BOT CHORD 2-9=-3034/5126, 8-9=-3034/5126, 7-8=-3871/6884, 6-7=-3871/6884
 WEBS 4-8=-2448/4135, 5-8=-1887/1017, 5-7=-690/1447, 3-8=-280/298

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-4-0 oc, Except member 8-5 2x4 - 1 row at 0-9-0 oc, member 5-7 2x4 - 1 row at 0-9-0 oc, member 8-3 2x4 - 1 row at 0-9-0 oc, member 3-9 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=1914, 2=1458.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2584 lb down and 1721 lb up at 7-0-12, and 1088 lb down and 570 lb up at 9-0-12, and 1088 lb down and 567 lb up at 11-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

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Philip J. O'Regan PE No.58126
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 16023 Swingley Ridge Rd, Chesterfield, MO 63017
 Date:

March 21, 2024

Continued on page 2

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Job 3930685	Truss T13	Truss Type Common Girder	Qty 1	Ply 2	COLEMAN Job Reference (optional)	T33302351
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:41 2024 Page 2
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-54, 4-6=-54, 2-6=-20

Concentrated Loads (lb)

Vert: 8=-2584(B) 14=-1088(B) 15=-1088(B)

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Job 3930685	Truss T14	Truss Type Common	Qty 4	Ply 1	COLEMAN	T33302352
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:42 2024 Page 1
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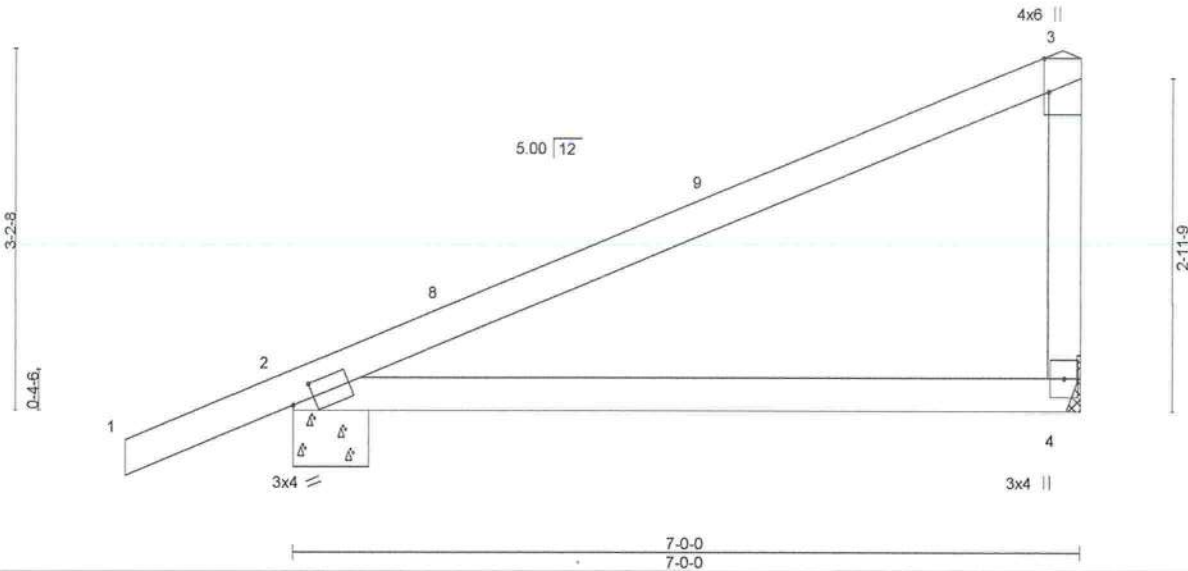


Plate Offsets (X,Y)--	[2:0-2-5,0-1-8], [3:0-3-9,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.74	Vert(LL) 0.12 4-7 >688 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.57	Vert(CT) -0.15 4-7 >551 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 2 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 28 lb	FT = 20%

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

REACTIONS. (size) 2=0-8-0, 4=Mechanical
 Max Horz 2=196(LC 12)
 Max Uplift 2=-182(LC 12), 4=-176(LC 12)
 Max Grav 2=343(LC 1), 4=245(LC 1)


FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=-165/358

- NOTES-**
- 1) Wnd: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; 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 6-10-4 zone; 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) except (jt=lb) 2=182, 4=176.

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Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

March 21, 2024

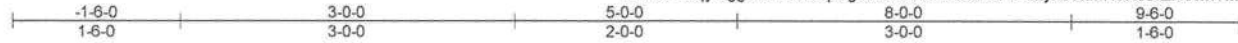
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Job 3930685	Truss T15	Truss Type Hip Girder	Qty 1	Ply 1	COLEMAN	T33302353
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:42 2024 Page 1

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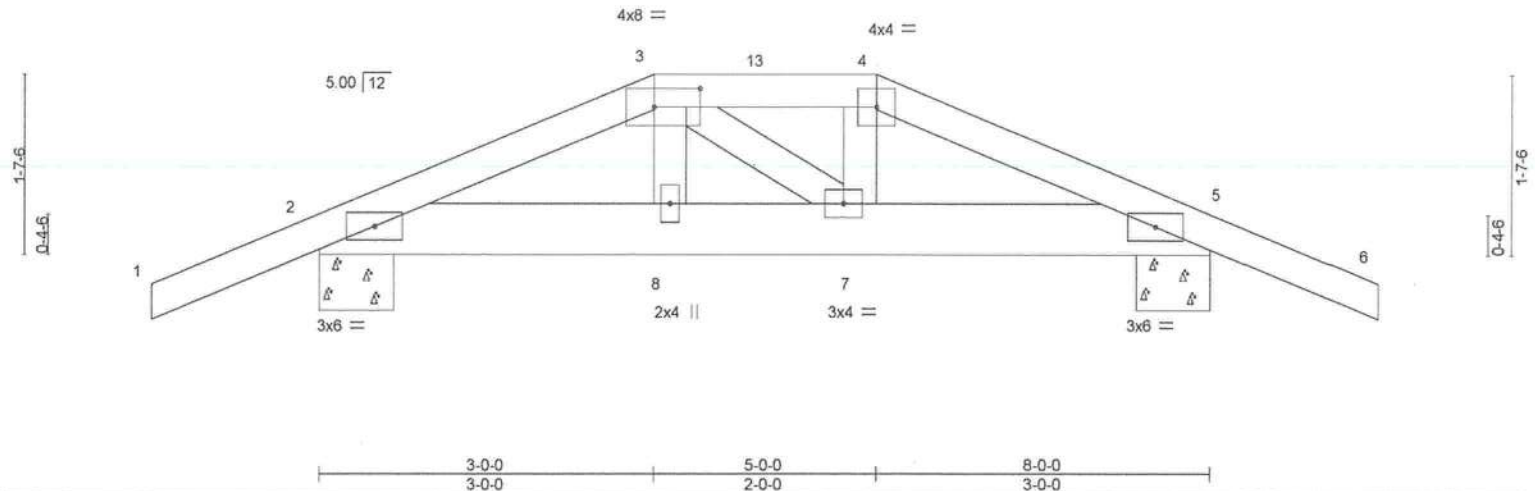


Plate Offsets (X,Y)-- [3:0-5-0,0-2-0]

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 0.15	Vert(LL)	0.01	8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.13	Vert(CT)	-0.01	8	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 42 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-8-0, 5=0-8-0
 Max Horz 2=-47(LC 9)
 Max Uplift 2=-350(LC 4), 5=-351(LC 5)
 Max Grav 2=406(LC 21), 5=408(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-516/449, 3-4=-470/434, 4-5=-517/447
 BOT CHORD 2-8=-350/491, 7-8=-357/503, 5-7=-359/506

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; 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.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=350, 5=351.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 31 lb down and 58 lb up at 3-0-0, and 161 lb down and 103 lb up at 5-0-0 on top chord, and 129 lb down and 60 lb up at 3-0-0, and 129 lb down and 60 lb up at 4-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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=-54, 3-4=-54, 4-6=-54, 2-5=-20
 Concentrated Loads (lb)
 Vert: 3=-5(F) 4=-13(F) 8=-21(F) 7=-21(F)

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

March 21, 2024

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

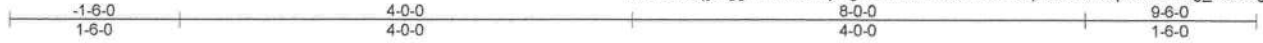
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 ANSITPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job 3930685	Truss T16	Truss Type Common	Qty 1	Ply 1	COLEMAN	T33302354
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 20 10:35:43 2024 Page 1
ID:NGSCqyJrgg3YcTcCG8pVgkzZR14-nvlaXOO8miaqa5Civ4oKqMdrSr7Vg_KcNGgc5wzZ3gk



Scale = 1:20.3

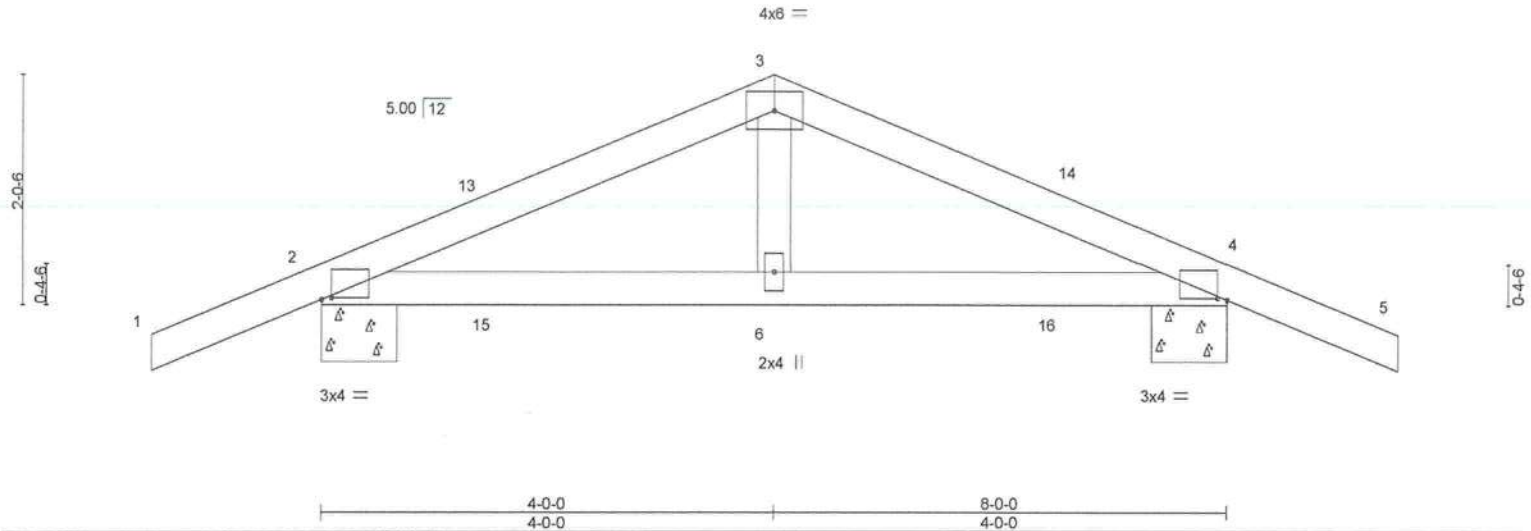


Plate Offsets (X,Y)--	[2:0-1-0,0-0-3], [4:0-1-0,0-0-3]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.31	Vert(LL) 0.03 6-12 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.17	Vert(CT) 0.02 6-12 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 32 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-7-12 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-8-0, 4=0-8-0
 Max Horz 2=57(LC 16)
 Max Uplift 2=-298(LC 8), 4=-298(LC 9)
 Max Grav 2=377(LC 1), 4=377(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-413/639, 3-4=-413/639
 BOT CHORD 2-6=-425/349, 4-6=-425/349

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; 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 4-0-0, Zone2 4-0-0 to 8-0-0, Zone1 8-0-0 to 9-6-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=298, 4=298.

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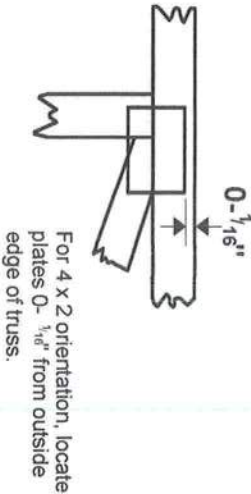
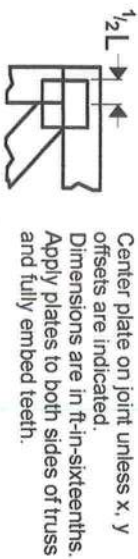
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Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

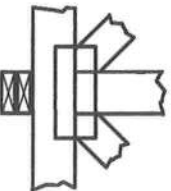
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

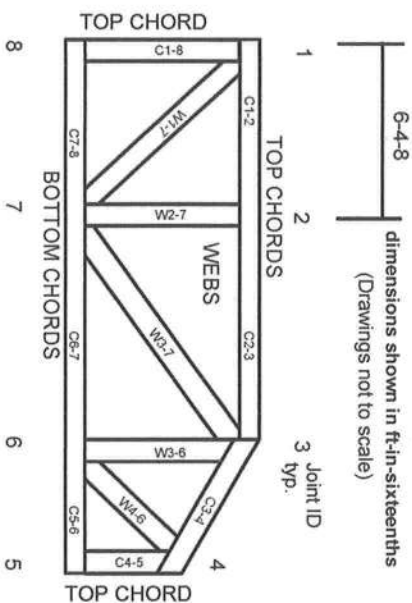


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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