



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: B230062 -

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:

Customer Info: YASMANIS Project Name: NA Model: NA
Lot/Block: NA Subdivision: NA
Address: COLUMBIA, NA
City: LAKE CITY State: FL

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

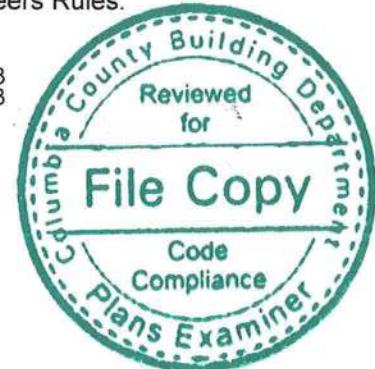
Name: License #:
Address:
City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 16 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	T30870827	A	6/22/23	15	T30870841	CJ71	6/22/23
2	T30870828	A1	6/22/23	16	T30870842	CJ72	6/22/23
3	T30870829	A2	6/22/23				
4	T30870830	A3	6/22/23				
5	T30870831	A4	6/22/23				
6	T30870832	AG	6/22/23				
7	T30870833	B1	6/22/23				
8	T30870834	CG	6/22/23				
9	T30870835	CG1	6/22/23				
10	T30870836	CGE	6/22/23				
11	T30870837	CJ1	6/22/23				
12	T30870838	CJ3	6/22/23				
13	T30870839	CJ5	6/22/23				
14	T30870840	CJ7	6/22/23				



This item has been electronically signed and sealed by Velez, Joaquin, PE using a Digital Signature.

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 American Truss of Chiefland.

Truss Design Engineer's Name: Velez, Joaquin

My license renewal date for the state of Florida is February 28, 2025.

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



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

June 22,2023

Velez, Joaquin

1 of 1

Job	Truss	Truss Type	Qty	Ply	
B230062	A	Common	5	1	T30870827

American Truss of Chiefland, Chiefland, FL - 32626,

8.710 s May 19 2023 MiTek Industries, Inc. Wed Jun 21 08:51:50 2023 Page 1
ID:ykrq8sFWpnnGZr5IBLnFg9z46cH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

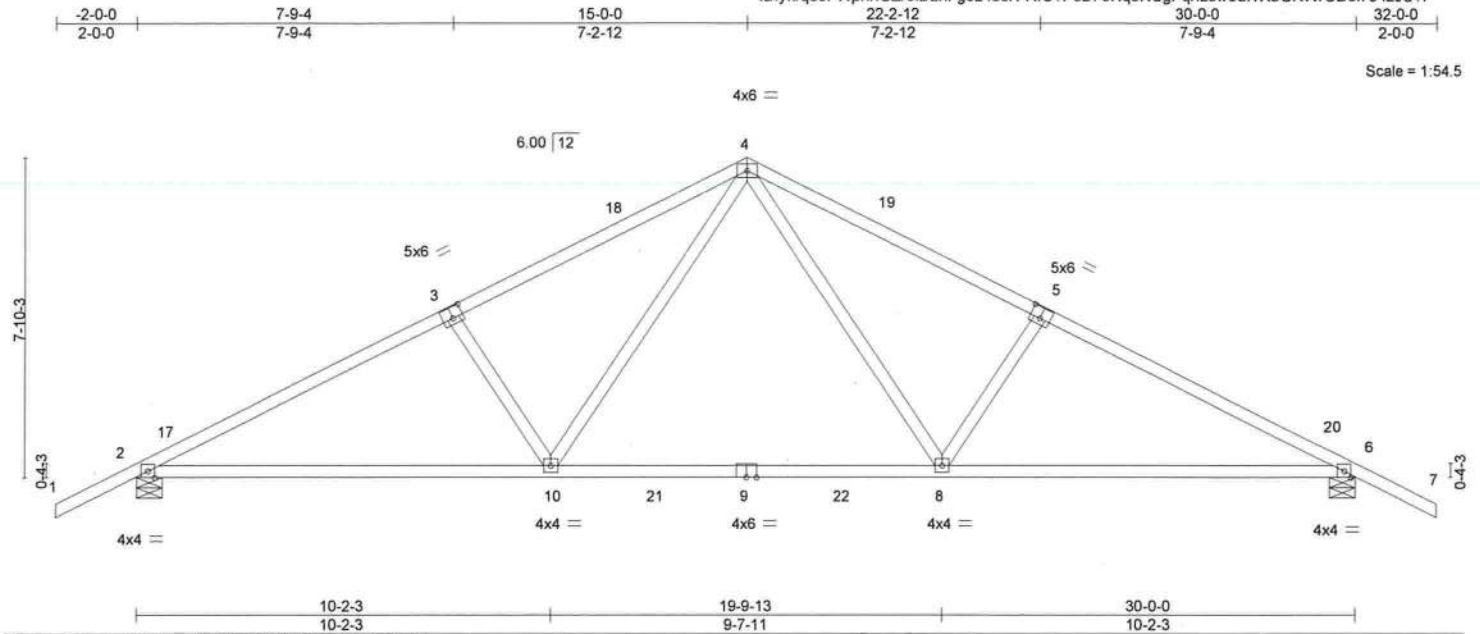


Plate Offsets (X,Y)--		[3:0-3-0,0-3-4], [5:0-3-0,0-3-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.41
TCDL 10.0	Lumber DOL	1.25	BC 0.69
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.24
BCDL 7.0	Code	FBC2020/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.27 8-10 >999 360
			Vert(CT) -0.38 8-10 >945 240
			Horz(CT) 0.07 6 n/a n/a
			Wind(LL) 0.10 8-16 >999 240
			PLATES GRIP
			MT20 244/190
			Weight: 140 lb FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-7-8, 6=0-7-8
Max Horz 2=-213(LC 10)
Max Uplift 2=-409(LC 12), 6=-409(LC 12)
Max Grav 2=1366(LC 17), 6=1366(LC 18)

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

TOP CHORD 2-3=-2156/611, 3-4=-1959/621, 4-5=-1959/621, 5-6=-2156/611
BOT CHORD 2-10=-388/2027, 8-10=-158/1303, 6-8=-417/1881
WEBS 4-8=-196/876, 5-8=-469/287, 4-10=-196/876, 3-10=-469/287

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 15-0-0, Exterior(2R) 15-0-0 to 18-0-0, Interior(1) 18-0-0 to 32-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 = 7.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=409, 6=409.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

This item has been electronically signed and sealed by Velez, Joaquin, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

June 22,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
B230062	A1	Roof Special	5	1	T30870828

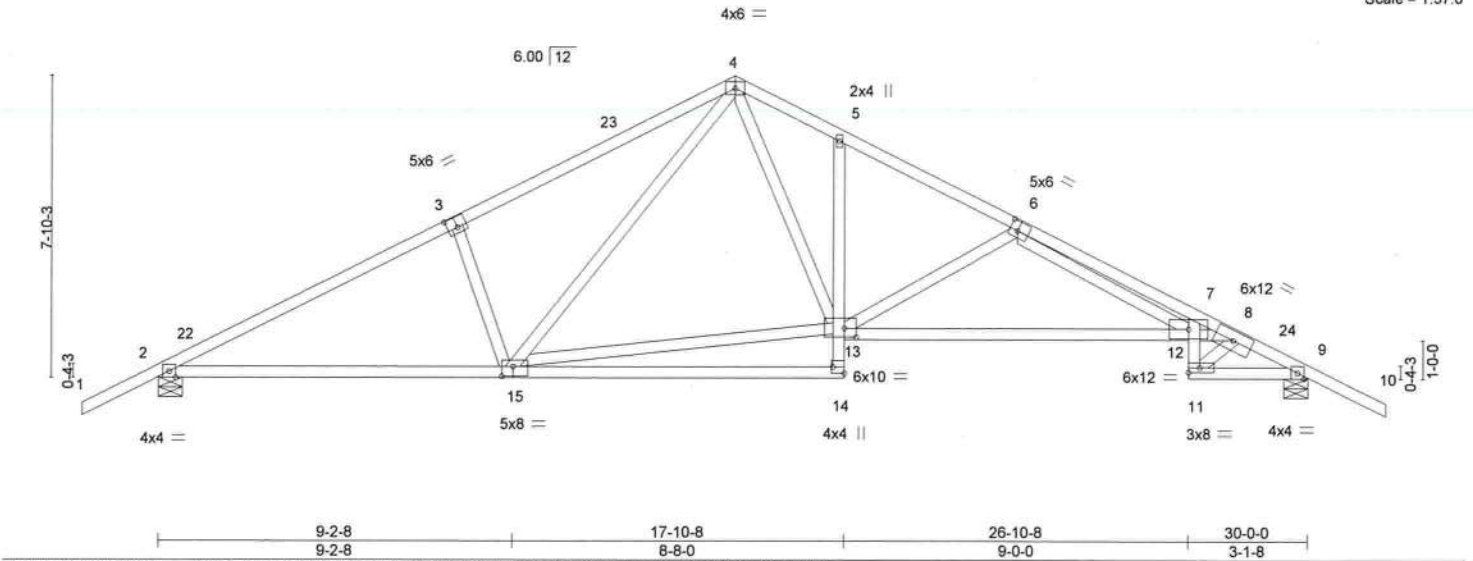
American Truss of Chiefland, Chiefland, FL - 32626,

8.710 s May 19 2023 MiTek Industries, Inc. Wed Jun 21 08:51:51 2023 Page 1

ID:ykrq8sFWpnnGZr5IBLnFg9z46cH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-2-0-0	7-9-4	15-0-0	17-10-8	22-4-8	26-10-8	30-0-0	32-0-0
2-0-0	7-9-4	7-2-12	2-10-8	4-6-0	4-6-0	3-1-8	2-0-0

Scale = 1:57.8



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 0.88	Vert(LL)	-0.32 12-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.78	Vert(CT)	-0.71 12-13	>510	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.53	Horz(CT)	0.24 9	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-AS	Wind(LL)	0.30 12-13	>999	240	Weight: 173 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-7-8, 9=0-7-8
Max Horz 2=213(LC 11)
Max Uplift 2=409(LC 12), 9=409(LC 12)
Max Grav 2=1230(LC 1), 9=1230(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1968/606, 3-4=-1816/672, 4-5=-1721/654, 5-6=-1829/588, 6-7=-5075/1345,
7-8=-4521/1216, 8-9=-2114/605
BOT CHORD 2-15=-385/1688, 12-13=-538/2220, 11-12=-298/1325, 9-11=-459/1823
WEBS 3-15=-452/293, 4-15=-234/577, 13-15=-152/1184, 4-13=-265/848, 6-13=-767/312,
6-12=-619/2723, 8-12=-844/3446, 8-11=-1861/438

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 15-0-0, Exterior(2R) 15-0-0 to 17-9-9, Interior(1) 17-9-9 to 32-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and 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=409, 9=409.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

June 22,2023

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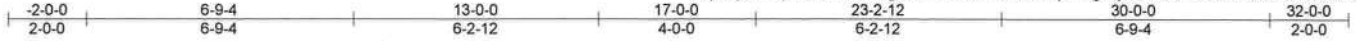
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
B230062	A2	Hip	2	1	T30870829

American Truss of Chiefland, Chiefland, FL - 32626,

8.710 s May 19 2023 MiTek Industries, Inc. Wed Jun 21 08:51:52 2023 Page 1

ID:ykrq8sFWpnnGZr5IBLnFg9z46cH-RfC?PsB7OHq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:56.3

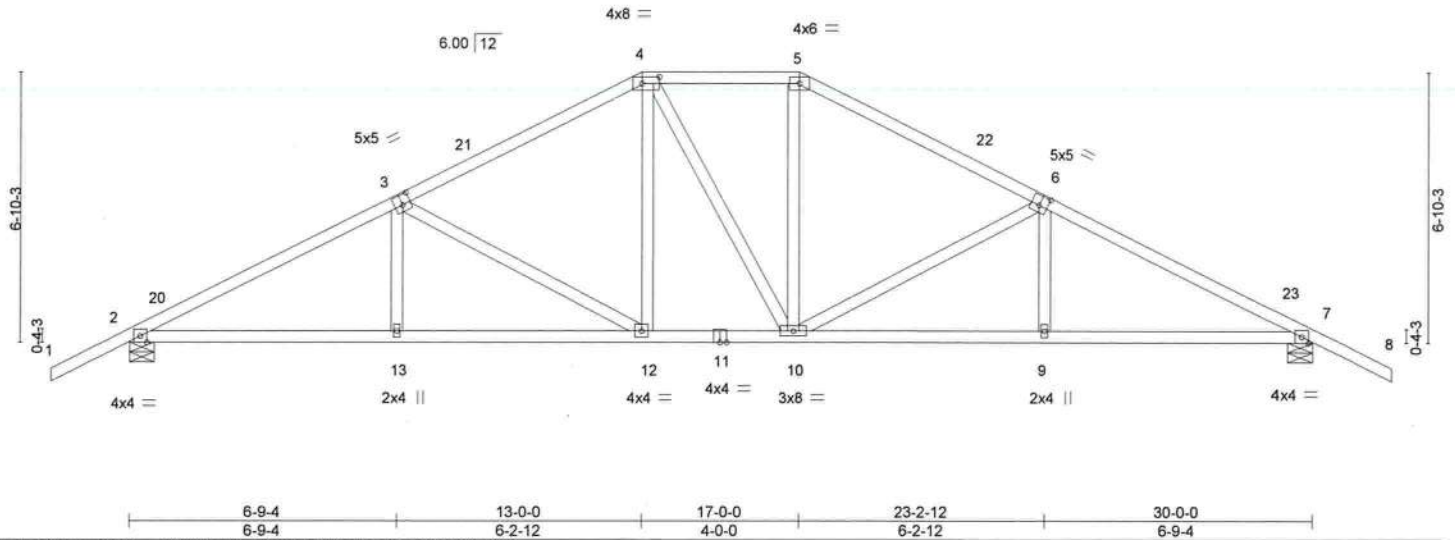


Plate Offsets (X,Y)--		[3:0-2-8,0-3-0], [4:0-5-4,0-2-0], [6:0-2-8,0-3-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29	Vert(LL)	-0.08	12	>999	360	MT20	244/190	
TCDL 10.0	Lumber DOL	1.25	BC 0.35	Vert(CT)	-0.17	12-13	>999	240			
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.46	Horz(CT)	0.07	7	n/a	n/a			
BCDL 7.0	Code FBC2020/TPI2014		Matrix-AS	Wind(LL)	0.08	12	>999	240	Weight: 160 lb	FT = 0%	

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-7-8, 7=0-7-8
Max Horz 2=189(LC 11)
Max Uplift 2=409(LC 12), 7=409(LC 12)
Max Grav 2=1230(LC 1), 7=1230(LC 1)

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

TOP CHORD 2-3=-2022/637, 3-4=-1481/547, 4-5=-1249/545, 5-6=-1481/547, 6-7=-2021/637
BOT CHORD 2-13=-415/1741, 12-13=-416/1738, 10-12=-214/1248, 9-10=-452/1738, 7-9=-451/1740
WEBS 3-12=-579/259, 4-12=-82/365, 5-10=-86/365, 6-10=-579/258

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 13-0-0, Exterior(2E) 13-0-0 to 17-0-0, Exterior(2R) 17-0-0 to 21-2-15, Interior(1) 21-2-15 to 32-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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=409, 7=409.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

June 22,2023

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Scale = 1.55 4

Job	Truss	Truss Type	Qty	Ply	
B230062	A4	Hip	2	1	T30870831

American Truss of Chiefland, Chiefland, FL - 32626,

8.710 s May 19 2023 MiTek Industries, Inc. Wed Jun 21 08:51:54 2023 Page 1
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Scale = 1:55.4

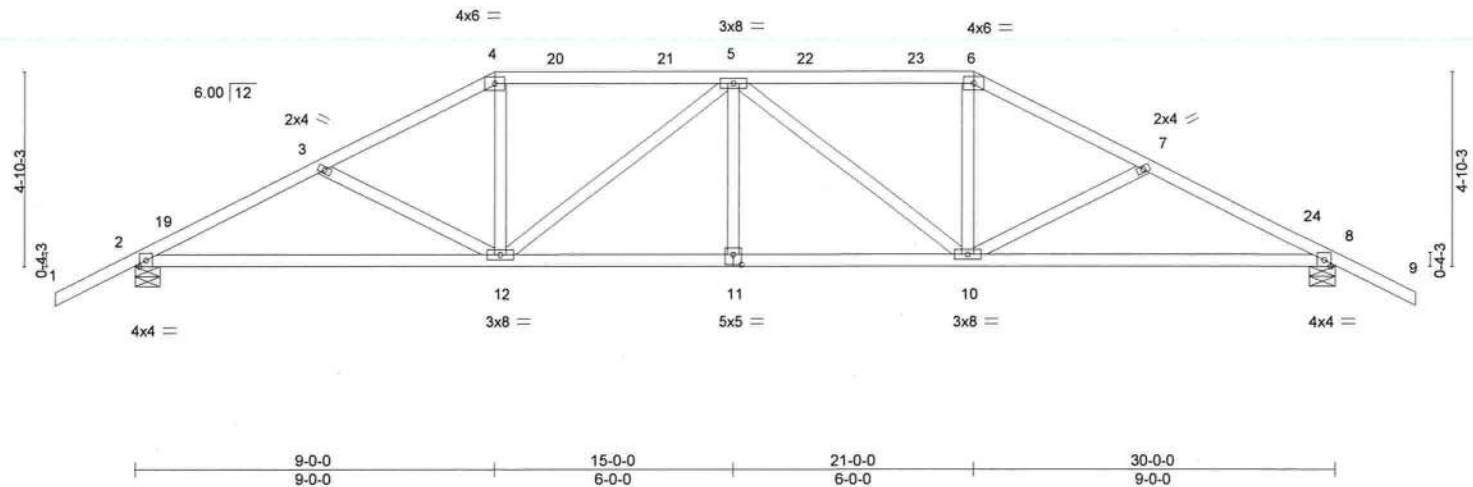


Plate Offsets (X,Y)--		[11:0-2-8,0-3-0]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.27		Vert(LL)	-0.13 12-15	>999	360	MT20	244/190
TCDL 10.0		Lumber DOL	1.25	BC 0.47		Vert(CT)	-0.26 12-15	>999	240		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.38		Horz(CT)	0.07 8	n/a	n/a		
BCDL 7.0		Code FBC2020/TPI2014		Matrix-AS		Wind(LL)	0.10 11	>999	240	Weight: 154 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-7-8, 8=0-7-8
Max Horz 2=139(LC 11)
Max Uplift 2=409(LC 12), 8=409(LC 12)
Max Grav 2=1230(LC 1), 8=1230(LC 1)

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

TOP CHORD 2-3=-2063/684, 3-4=-1781/590, 4-5=-1555/575, 5-6=-1555/575, 6-7=-1781/590, 7-8=-2063/684
BOT CHORD 2-12=-477/1801, 11-12=-435/1849, 10-11=-435/1849, 8-10=-513/1801
WEBS 3-12=-307/200, 4-12=-98/490, 5-12=-464/147, 5-10=-464/147, 6-10=-98/490, 7-10=-308/199

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 21-0-0, Exterior(2R) 21-0-0 to 25-4-11, Interior(1) 25-4-11 to 32-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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=409, 8=409.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Chesterfield, MO 63017

Date:

June 22,2023



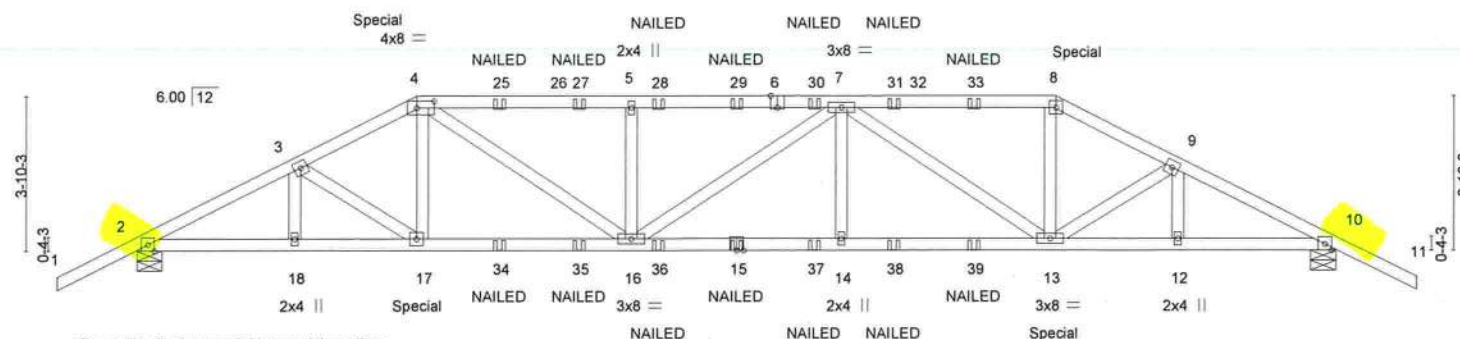
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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American Truss of Chiefland, Chiefland, FL - 32626, 8.710 s May 19 2023 MiTek Industries, Inc. Wed Jun 21 08:51:57 2023 Page 1
ID:ykrq8sFWpnnGZr5fBLnFg9z46cH-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC7f
-2-0-0 | 3-11-4 | 7-0-0 | 12-4-9 | 17-7-7 | 23-0-0 | 26-0-12 | 30-0-0 | 32-0-0
2-0-0 | 3-11-4 | 3-0-12 | 5-4-9 | 5-2-13 | 5-4-9 | 3-0-12 | 3-11-4 | 2-0-0
Scale = 1:55



"Special" indicates special hanger(s) or other connection device(s) required at location(s) shown. The design/selection of such special connection device(s) is the responsibility of others. This applies to all applicable truss designs in this job.

	3-11-4	7-0-0	12-4-9	17-7-7	23-0-0	26-0-12	30-0-0		
	3-11-4	3-0-12	5-4-9	5-2-13	5-4-9	3-0-12	3-11-4		
Plate Offsets (X,Y)--	[4:0-5-4,0-2-0], [6:0-2-0,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 0.32	Vert(LL)	-0.13 14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.37	Vert(CT)	-0.22 14-16	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.21	Horz(CT)	0.07 10	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MS	Wind(LL)	0.15 14-16	>999	240	Weight: 320 lb	FT = 0%

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

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 9-6-8 oc bracing.

REACTIONS. (size) 2=0-7-8, 10=0-7-8
 Max Horz 2=-113(LC 6)
 Max Uplift 2=-902(LC 8), 10=-1042(LC 8)
 Max Grav 2=1993(LC 1), 10=1737(LC 37)

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

TOP CHORD 2--3729/1594, 3-4--3583/1626, 4-5--4130/2074, 5-7--4130/2074, 7-8--2762/1796, 8-9--3057/1954, 9-10--3223/1890

BOT CHORD 2-18--1301/3353, 12-18--1301/3353, 16-17--1281/3266, 14-16--2060/3934, 13-14--2060/3934, 17-13--1566/2826, 10-12--1566/2826

WEBS 3-17--262/161, 4-17--50/59, 4-16--703/1147, 5-16--665/368, 7-16=0/584, 7-13--1607/567, 8-13--456/921, 9-13--308/142

NOTES.

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=4.2psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are 4x4 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=902, 10=1042.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 220 lb down and 241 lb up at 7-0-0, and 298 lb down and 402 lb up at 23-0-0 on top chord, and 355 lb down and 85 lb up at 7-0-0, and 20 lb down and 133 lb up at 22-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

June 22, 2023

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	T30870832
B230062	AG	Hip Girder	2	2	Job Reference (optional)

American Truss of Chiefland, Chiefland, FL - 32626,

8.710 s May 19 2023 MiTek Industries, Inc. Wed Jun 21 08:51:57 2023 Page 2
ID:ykrq8sFWpnnGZr5iBLnFg9z46cH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-8=-60, 8-11=-60, 19-22=-14

Concentrated Loads (lb)

Vert: 4=-173(F) 8=32(F) 15=-48(F) 17=-265(F) 13=80(F) 25=-118(F) 27=-118(F) 28=-118(F) 29=-118(F) 30=-107(F) 31=-107(F) 33=-107(F) 34=-48(F) 35=-48(F) 36=-48(F) 37=53(F) 38=53(F) 39=53(F)

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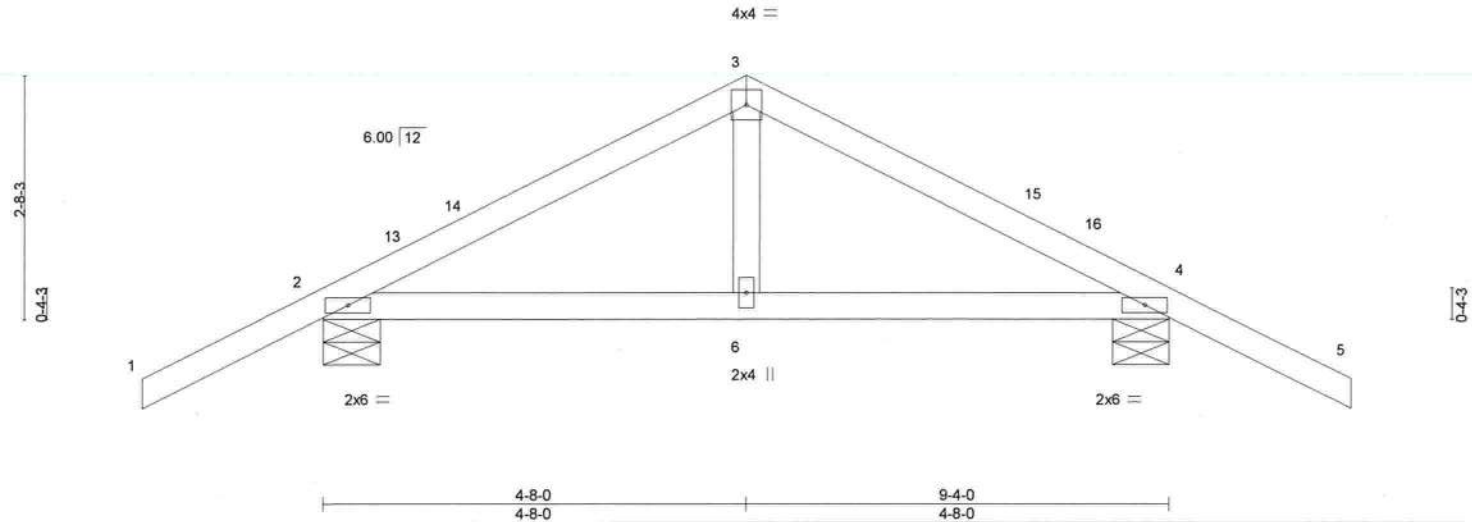
Job	Truss	Truss Type	Qty	Ply	
B230062	B1	Common	3	1	T30870833
Job Reference (optional)					

American Truss of Chiefland, Chiefland, FL - 32626,

8.710 s May 19 2023 MiTek Industries, Inc. Wed Jun 21 08:51:58 2023 Page 1
ID:ykrq8sFWpnnGZr5IBLnFg9z46cH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC7f



Scale = 1:24.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.25	Vert(LL)	-0.01	6-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.13	Vert(CT)	-0.02	6-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-AS	Wind(LL)	0.01	6-12	>999	240	Weight: 40 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-7-8, 4=0-7-8
Max Horz 2=78(LC 11)
Max Uplift 2=-196(LC 12), 4=-196(LC 12)
Max Grav 2=465(LC 1), 4=465(LC 1)

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

TOP CHORD 2-3=-426/291, 3-4=-426/291
BOT CHORD 2-6=-67/332, 4-6=-67/332

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-8-0, Exterior(2R) 4-8-0 to 7-8-0, Interior(1) 7-8-0 to 11-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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=196, 4=196.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

Date:

June 22,2023

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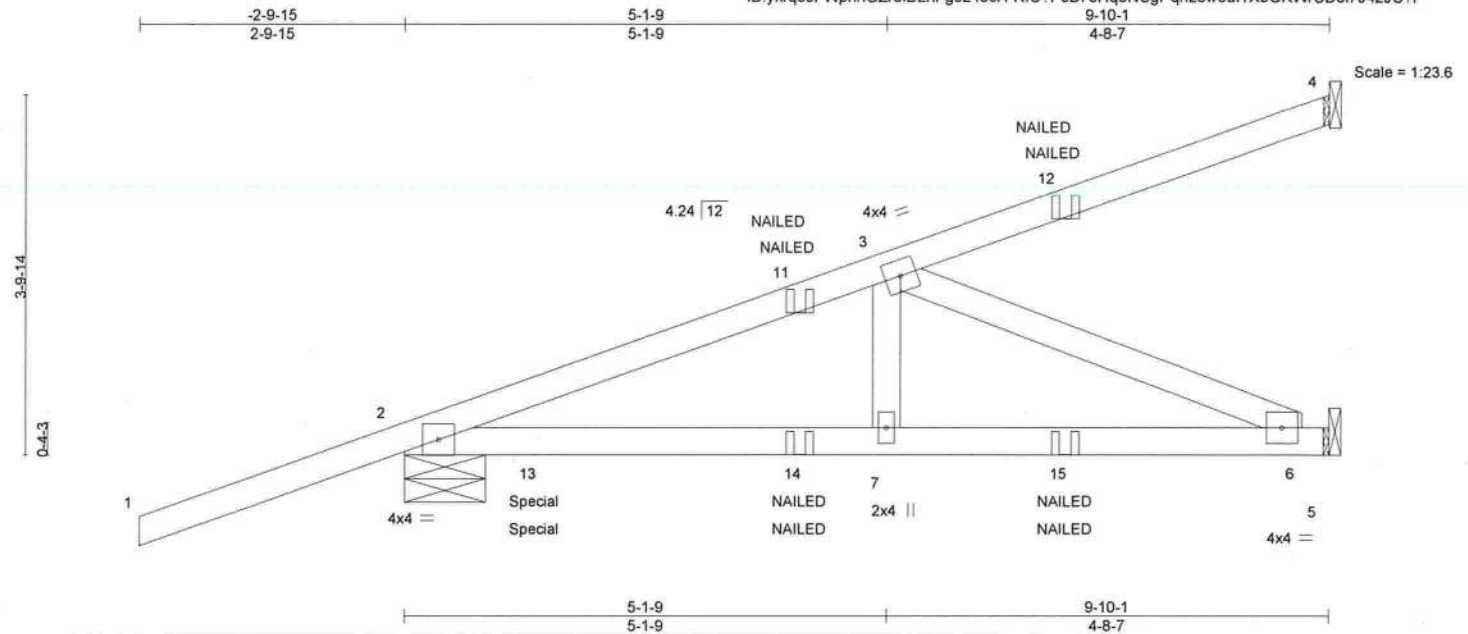


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
B230062	CG	Diagonal Hip Girder	3	1	T30870834

American Truss of Chiefland, Chiefland, FL - 32626,

8.710 s May 19 2023 MiTek Industries, Inc. Wed Jun 21 08:51:59 2023 Page 1
ID:ykrq8sFWpnnGZr5iBLnFg9z46cH-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwvRCDoi7J4zJC?f



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 0.55	Vert(LL)	-0.14 7-10	>813	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	0.09 7-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.31	Horz(CT)	0.01 5	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 44 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-10-4, 5=Mechanical
Max Horz 2=204(LC 8)
Max Uplift 4=-75(LC 8), 2=-431(LC 8), 5=-80(LC 8)
Max Grav 4=140(LC 1), 2=836(LC 28), 5=341(LC 28)

FORCES.

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

TOP CHORD 2-3=-866/192
BOT CHORD 2-7=-261/792, 6-7=-261/792
WEBS 3-7=-41/293, 3-6=-859/283

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical 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) 4, 5 except (jt=lb) 2=431.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 280 lb down and 275 lb up at 1-4-9, and 280 lb down and 275 lb up at 1-4-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 5-8=-14
Concentrated Loads (lb)
Vert: 12=-61(F=-30, B=-30) 13=210(F=105, B=105) 14=6(F=3, B=3) 15=-39(F=-20, B=-20)

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

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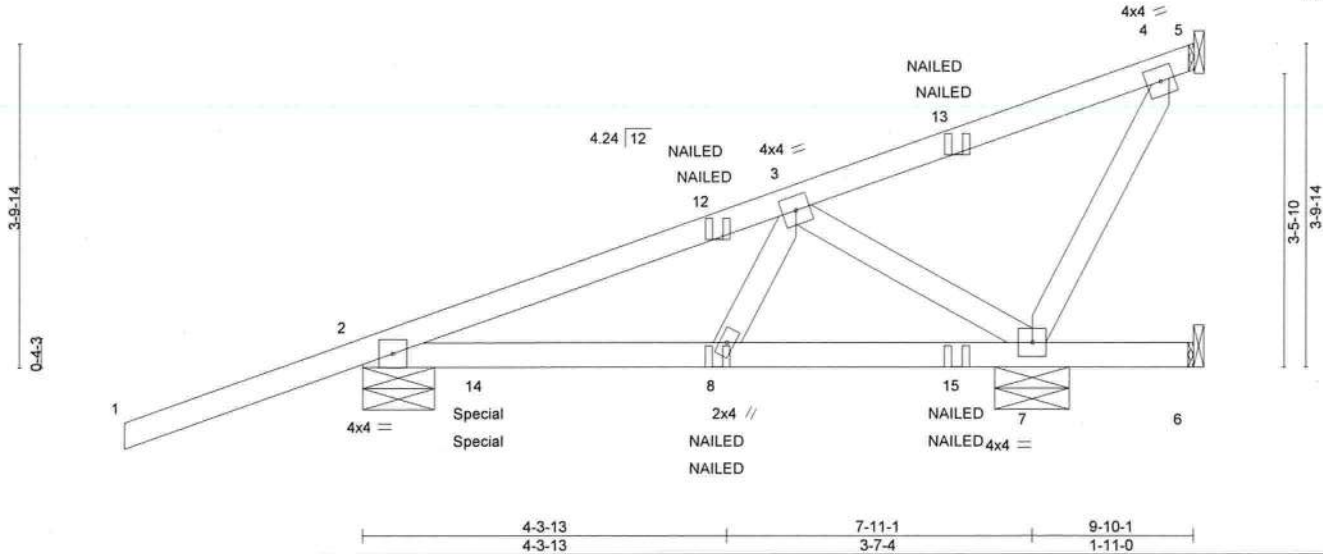


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
B230062	CG1	Diagonal Hip Girder	1	1	T30870835

American Truss of Chiefland, Chiefland, FL - 32626, 8.710 s May 19 2023 MiTek Industries, Inc. Wed Jun 21 08:52:00 2023 Page 1
ID:ykrq8sFWpnnGZr5iBLnFg9z46cH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC7f
-2-9-15 5-1-9 9-10-1
2-9-15 5-1-9 4-8-7

Scale = 1:26.3



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 0.48	Vert(LL)	-0.10 8-11	>938	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.59	Vert(CT)	0.07 8-11	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.13	Horz(CT)	0.01 6	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 47 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.1

BRACING-

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

REACTIONS.

All bearings Mechanical except (jt=length) 2=0-10-4, 7=0-10-10.

(lb) - Max Horz 2=204(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 6 except 5=268(LC 1), 2=365(LC 8), 7=348(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 5, 6 except 2=675(LC 28), 7=848(LC 28)

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

TOP CHORD 2-3=-617/218, 3-4=-171/306

BOT CHORD 2-8=-181/494, 7-8=-114/349

WEBS 3-8=-157/336, 3-7=-608/248, 4-7=-574/291

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical 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) 6 except (jt=lb) 5=268, 2=365, 7=348.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 280 lb down and 275 lb up at 1-4-9, and 280 lb down and 275 lb up at 1-4-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-60, 6-9=-14

Concentrated Loads (lb)

Vert: 8=6(F=3, B=3) 13=-61(F=-30, B=-30) 14=210(F=105, B=105) 15=-39(F=-20, B=-20)

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Date:

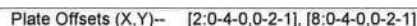
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

T30870836

LUMBER-

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
OTHERS	2x4 SP No.1

BRACING-

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

REACTIONS.

All bearings 9-4-0.

(lb) - Max Horz 2=-63(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 12, 10 except 2=-120(LC 12), 8=-120(LC 12)

Max Gray All reactions 250 lb or less at joint(s) 2, 8, 11, 12, 10

FORCES.

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDF=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Encl. GCp=0.18; MWFRS (directional) and C-C Corner(3E) 1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 4-8-0, Corner(3R) 4-8-0 to 7-8-0, Exterior(2N) 7-8-0 to 10-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2'-0" oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 10 except (ft=lb) 2=120. 8=120.

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

June 22, 2023



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

WARNING – verify design parameters. READ NOTES ON THIS AND INCLUDED LITERATURE REFERENCE PAGE MH-1473 (REV. 3/19/2020) 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 26750 Crain Highway, Suite 203 Waldorf, MD 20601

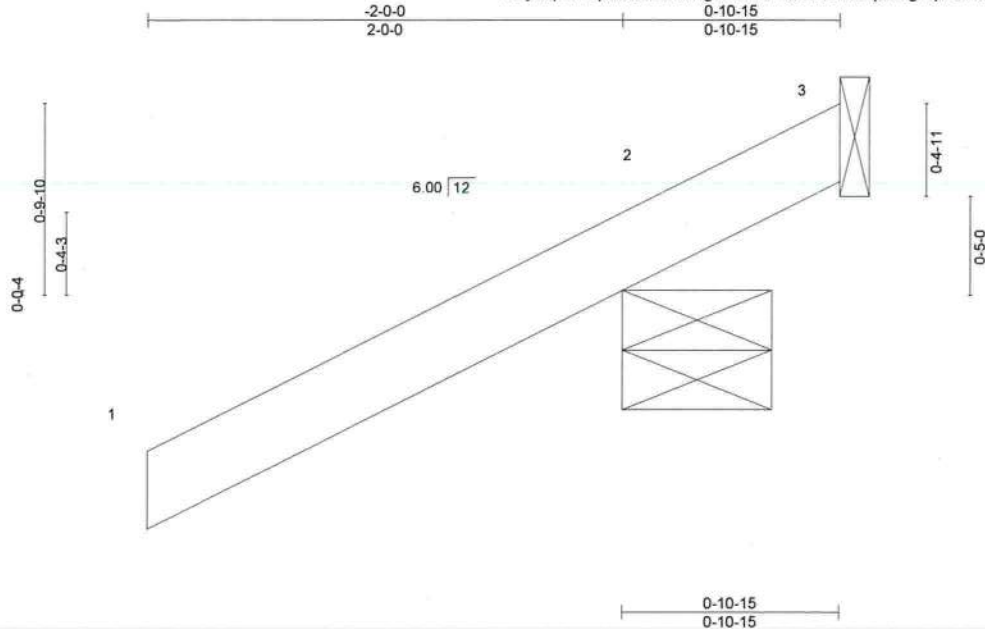


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
B230062	CJ1	Jack-Open	8	1	T30870837

American Truss of Chiefland, Chiefland, FL - 32626,

8.710 s May 19 2023 MiTek Industries, Inc. Wed Jun 21 08:52:02 2023 Page 1
ID:ykrq8sFWpnnGZr5IBLnFg9z46cH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwvCDoi7J4zJC?f



Scale = 1:9.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.39	Vert(LL)	0.00	2	>999	360		
TCDL 10.0	Lumber DOL	1.25	BC 0.00	Vert(CT)	0.00	2	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MP	Wind(LL)	-0.00	2-3	>999	240		
									Weight: 5 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.1

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

REACTIONS. (size) 3=Mechanical, 3=Mechanical, 2=0-7-8
Max Horz 2=84(LC 12)
Max Uplift 3=256(LC 1), 3=256(LC 1), 2=418(LC 12)
Max Grav 3=286(LC 12), 2=430(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=256, 2=418.
- 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

This item has been electronically signed and sealed by Velez, Joaquin, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

June 22, 2023

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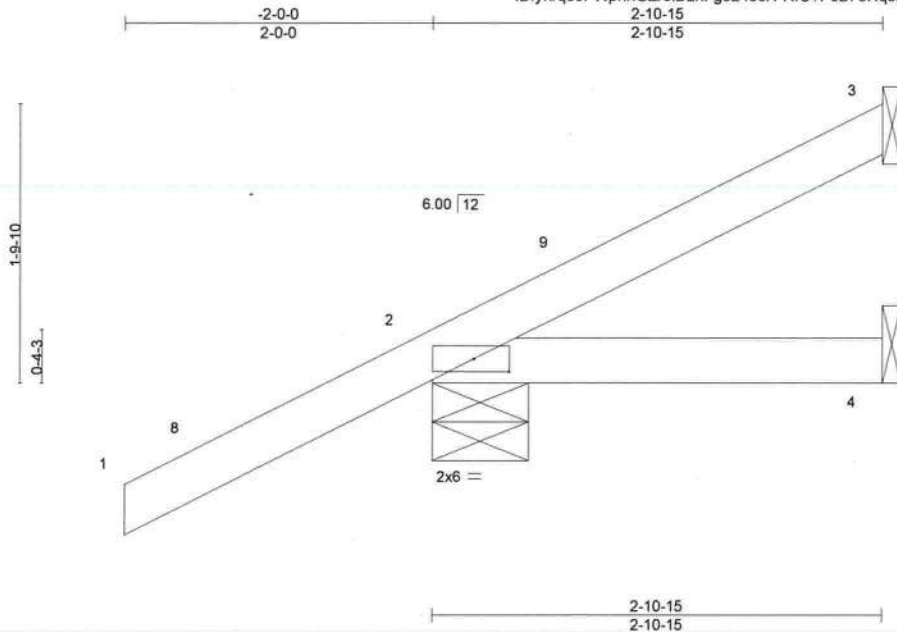


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
B230062	CJ3	Jack-Open	8	1	T30870838
Job Reference (optional)					

American Truss of Chiefland, Chiefland, FL - 32626,

8.710 s May 19 2023 MiTek Industries, Inc. Wed Jun 21 08:52:03 2023 Page 1
ID:ykrq8sFWpnnGZr5IBLnFg9z46cH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f



Scale = 1:14.3

Plate Offsets (X,Y)--		[2-0-2-12,0-1-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	-0.00	4-7	>999	360	MT20	244/190	
TCDL 10.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	-0.00	4-7	>999	240			
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a			
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MP	Wind(LL)	-0.01	4-7	>999	240			
										Weight: 13 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-7-8, 4=Mechanical
Max Horz 2=120(LC 12)
Max Uplift 3=22(LC 12), 2=159(LC 12)
Max Grav 3=54(LC 17), 2=268(LC 1), 4=38(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 except (jt=lb) 2=159.

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

Date:

June 22,2023

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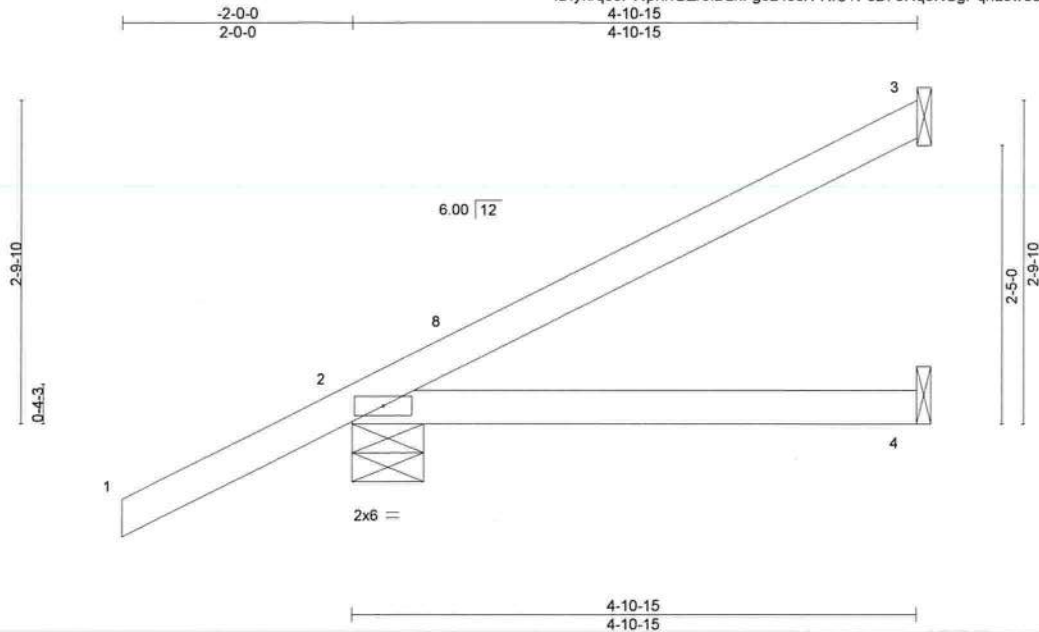


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
B230062	CJ5	Jack-Open	8	1	T30870839
Job Reference (optional)					

American Truss of Chiefland, Chiefland, FL - 32626,

8.710 s May 19 2023 MiTek Industries, Inc. Wed Jun 21 08:52:03 2023 Page 1
ID:ykrq8sFWpnnGZr5IBLnFg9z46cH-RfC?PsB7OHq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:19.3

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 0.28	Vert(LL)	-0.02	4-7	>999	360	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.17	Vert(CT)	-0.04	4-7	>999	240	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 7.0	Code FBC2020/TPI2014		Matrix-AS	Wind(LL)	0.03	4-7	>999	240	
									Weight: 19 lb FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 3=Mechanical, 2=0-7-8, 4=Mechanical
Max Horz 2=161(LC 12)
Max Uplift 3=-64(LC 12), 2=-150(LC 12)
Max Grav 3=115(LC 1), 2=324(LC 1), 4=73(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 except (jt=lb) 2=150.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Date:

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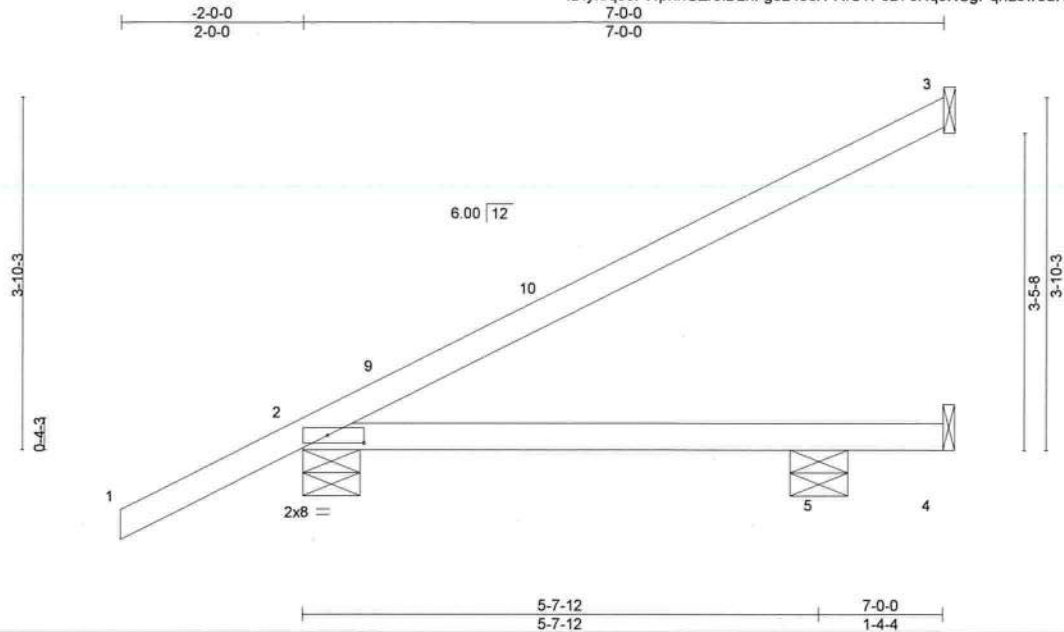


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
B230062	CJ7	Jack-Open	4	1	T30870840
Job Reference (optional)					

American Truss of Chiefland, Chiefland, FL - 32626,

8.710 s May 19 2023 MiTek Industries, Inc. Wed Jun 21 08:52:04 2023 Page 1
ID:ykrq8sFWpnnGZr5IBLnFg9z46cH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWfCDoi7J4zJC?f



Scale: 1/2"=1'

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

LOADING (psf)	SPACING-	2:0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.45	Vert(LL)	-0.03 5-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.37	Vert(CT)	-0.06 5-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-AS	Wind(LL)	0.06 5-8	>999	240	Weight: 26 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. All bearings Mechanical except (jt=length) 2=0-7-8, 5=0-7-8.
(lb) - Max Horz 2=204(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 4, 5 except 3=103(LC 12), 2=152(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 3, 4, 5 except 2=359(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, 5 except (jt=lb) 3=103, 2=152.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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MiTek Inc. DBA MiTek USA FL Cert 6634
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Chesterfield, MO 63017

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June 22,2023



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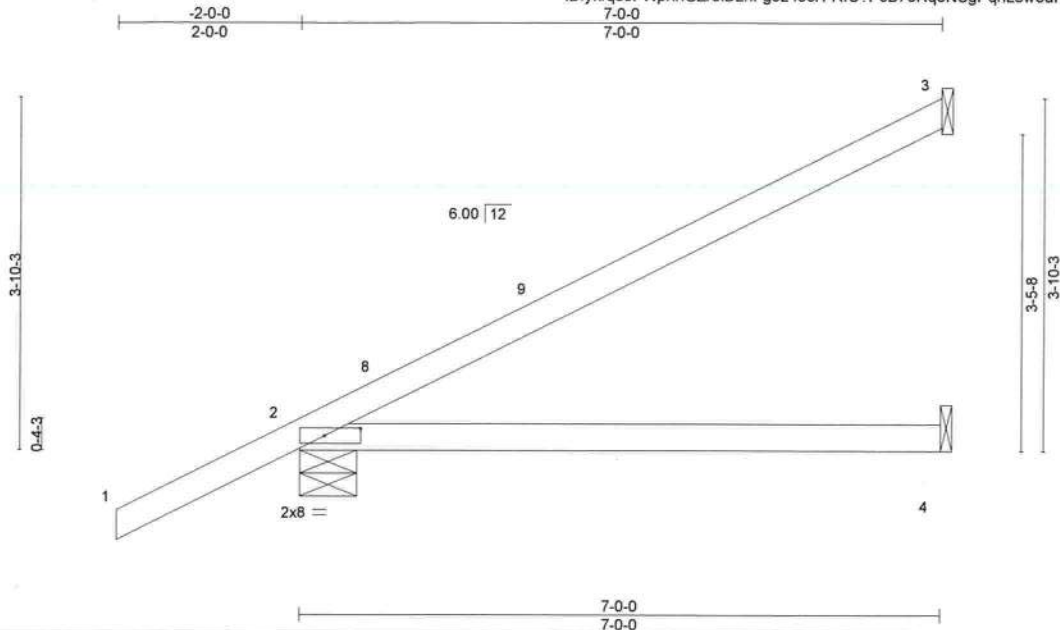


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
B230062	CJ71	Jack-Open	7	1	T30870841
Job Reference (optional)					

American Truss of Chiefland, Chiefland, FL - 32626,

8.710 s May 19 2023 MiTek Industries, Inc. Wed Jun 21 08:52:05 2023 Page 1
ID:ykrq8sFWpnnGZr5IBLnFg9z46cH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale: 1/2"=1'

Plate Offsets (X,Y)--	[2:0-4-12,0-1-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.47	Vert(LL)	-0.08	4-7	>999	360	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.34	Vert(CT)	-0.16	4-7	>529	240	
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 7.0	Code FBC2020/TPI2014		Matrix-AS	Wind(LL)	0.11	4-7	>750	240	
								Weight: 26 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 3=Mechanical, 2=0-7-8, 4=Mechanical
Max Horz 2=204(LC 12)
Max Uplift 3=-103(LC 12), 2=-153(LC 12)
Max Grav 3=178(LC 1), 2=394(LC 1), 4=106(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 3=103, 2=153.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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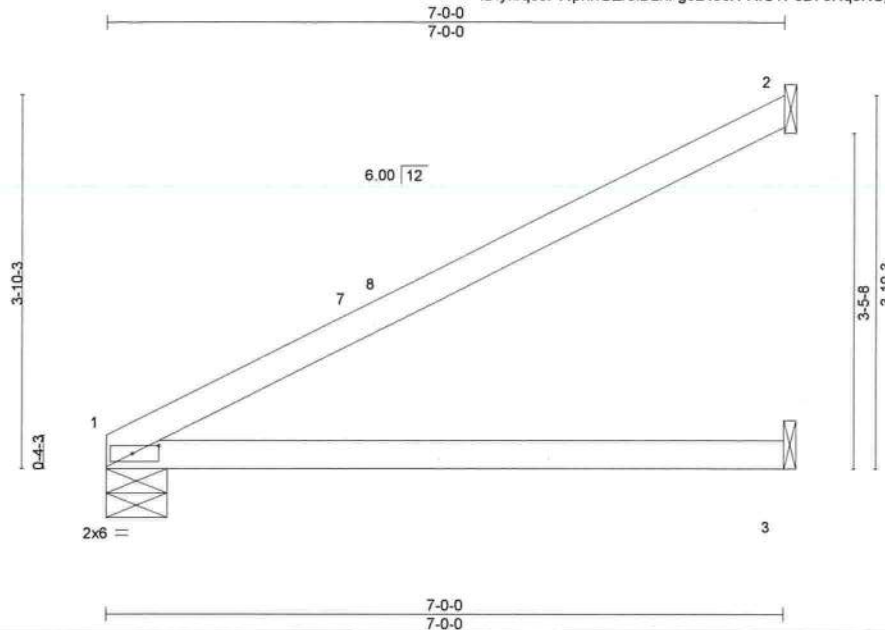


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
B230062	CJ72	Jack-Open	7	1	T30870842

American Truss of Chiefland, Chiefland, FL - 32626,

8.710 s May 19 2023 MiTek Industries, Inc. Wed Jun 21 08:52:05 2023 Page 1
ID:ykrq8sFWpnnGZr5IBLnFg9z46cH-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrcDoi7J4zJC?f



Scale = 1:22.9

Plate Offsets (X,Y)--		[1:0-3-4,0-1-0]											
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL 20.0		Plate Grip DOL	1.25	TC 0.51		Vert(LL)	-0.08 3-6	>999	360	MT20	244/190		
TCDL 10.0		Lumber DOL	1.25	BC 0.41		Vert(CT)	-0.17 3-6	>477	240				
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.00		Horz(CT)	-0.00 2	n/a	n/a				
BCDL 7.0		Code FBC2020/TPI2014		Matrix-AS		Wind(LL)	0.14 3-6	>607	240	Weight: 22 lb	FT = 0%		

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 1=0-7-8, 2=Mechanical, 3=Mechanical
Max Horz 1=142(LC 12)
Max Uplift 1=-35(LC 12), 2=-113(LC 12)
Max Grav 1=257(LC 1), 2=187(LC 1), 3=109(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 1 except (jt=lb) 2=113.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

This item has been electronically signed and sealed by Velez, Joaquin, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

Date:

June 22,2023



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

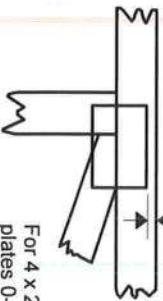
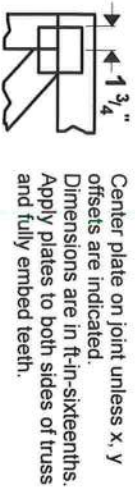
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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Symbols

PLATE LOCATION AND ORIENTATION



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



* Plate location details available in **MiTek 20120** software or upon request.

PLATE SIZE

4 X 4

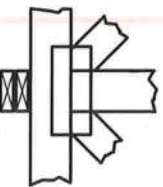
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

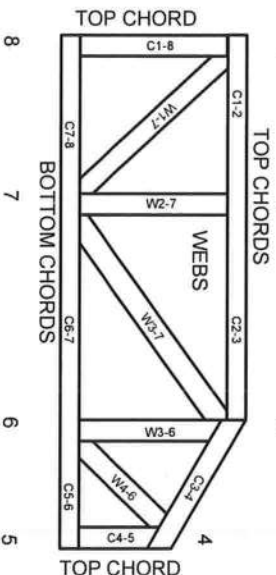


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & 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-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

