MiTek These truss designs rely on lumber values established by others.

RE: 0525-035 - Hubbart

MiTek, Inc.

314.434.1200

16023 Swingley Ridge Rd

Chesterfield, MO 63017

Site Information:

Customer Info: Jesse Hubbart Project Name: . Model: .

Lot/Block: .

Subdivision: .

Address: ., .

City: Ft. White

State: .

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

Name:

License #:

Address:

City:

State:

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

Design Code: FBC2023/TPI2014

Design Program. MiTek 20/20 8.8

Wind Code: ASCE 7-22

Wind Speed: 130 mph

Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 29 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. 1234567891112345678901	Seal# T37416866 T37416868 T37416869 T37416870 T37416871 T37416873 T37416874 T37416876 T37416878 T37416878 T37416880 T37416881 T37416881 T37416883 T37416884 T37416884 T37416884	Truss Name A01 A02 A03 A04 A05 A06 A07 A08 A09 A10 A11 A12 B01 B02 B03 B04 B05 B06 B07 C01	Date 5/23/25	No. 23 24 25 26 27 28 29	Seal# T37416888 T37416889 T37416891 T37416892 T37416893 T37416894	Truss Name C04 CJ01 J01 J02 J03 J04 J05	Date 5/23/25 5/23/25 5/23/25 5/23/25 5/23/25 5/23/25 5/23/25 5/23/25
20 21 22			5/23/25 5/23/25 5/23/25 5/23/25				(N)

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Velez, Joaquin

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

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



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

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek industries, Inc. Thu May 22 15:56:10 IDru_nwLeBqgmSedUypq2L?TszDxCw-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7J4zJC?f Page 1

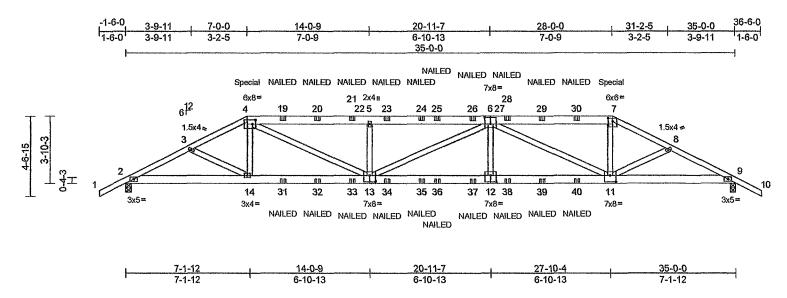


Plate Offsets (X, Y).	[4:0-2-4,0-3-0],	[6:0-4-0,0-4-8], [7:0	1-3-0,0-2-7], [11:0-4-0,0-4	4-8], [12 [.] 0-4-0,	,0-4-8], [13:0-	4-0,0-4-8]						
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	1/deft	L/d	PLATES	GRIP
TCU (roof)	20.0	Plate Grip DOI	1 25	TC	0.47	Vert(LL)	-0.24	12-13	>999	240	MT20	244/190

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	1/defi	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 47	Vert(LL)	-0 24	12-13	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0 50	12-13	>844	180		
BCLL	00*	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0 12	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight, 440 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 4-6,6-7.2x6 SP No 2 2x6 SP No 2 **BOT CHORD**

2x4 SP No 2 **WEBS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-11-4 oc purlins.

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

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

Max Horiz 2=-76 (LC 6) Max Uplift 2=-357 (LC 8), 9=-357 (LC 8)

Max Grav 2=3092 (LC 13), 9=3092 (LC 14)

(lb) - Maximum Compression/Maximum **FORCES**

TOP CHORD 1-2=0/40, 2-3=-6413/728, 3-4=-6283/729

4-5=-8577/1020, 5-7=-8572/1019,

7-8=-6281/727, 8-9=-6409/727, 9-10=0/40

BOT CHORD 2-14=-587/5751, 11-14=-913/8587,

9-11=-586/5690 WEBS

4-14=0/793, 4-13=-395/3289

5-13=-1060/366, 6-13=-39/35, 6-12=0/590,

6-11=-3226/393, 7-11=-86/2159,

3-14=-122/133, 8-11=-119/137

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, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Web connected as follows 2x4 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- 3) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf, BCDL=6 0psf; h=15ft, B=45ft; L=35ft, eave=5ft, Cat II, Exp B, Enclosed, MWFRS (directional), cantilever left and right exposed, end vertical 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 Opsf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 357 lb uplift at joint 2 and 357 lb uplift at joint 9
- 10) "NAILED" indicates 3-10d (0 148"x3") or 3-12d (0.148"x3 25") toe-nails per NDS guidlines
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 259 Ib down and 140 lb up at 7-0-0, and 259 lb down and 140 lb up at 28-0-0 on top chord, and 410 lb down and 16 lb up at 7-0-0, and 410 lb down and 16 lb up at 27-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

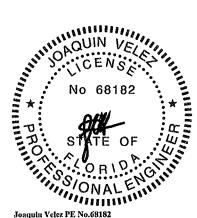
LOAD CASE(S) Standard

Concentrated Loads (lb)

Dead + Roof Live (balanced) Lumber Increase=1.25, Plate Increase=1 25 Uniform Loads (lb/ft)

Vert: 1-4=-60, 4-7=-60, 7-10=-60, 2-9=-20

Vert: 4=-180 (B), 7=-180 (B), 14=-359 (B), 11=-359 (B), 19=-125 (B), 20=-125 (B), 21=-125 (B), 23=-125 (B), 24=-125 (B), 25=-125 (B), 26=-125 (B), 28=-125 (B), 29=-125 (B), 30=-125 (B), 31=-62 (B), 32=-62 (B), 33=-62 (B), 34=-62 (B), 35=-62 (B), 36=-62 (B) 37=-62 (B), 38=-62 (B), 39=-62 (B), 40=-62 (B)

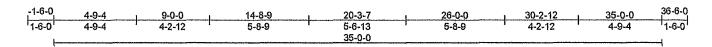


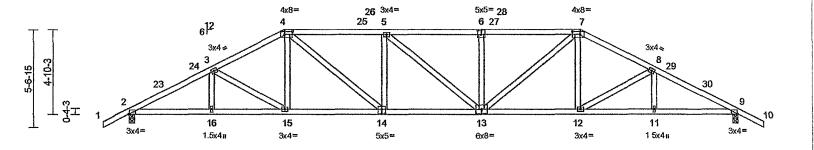
Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

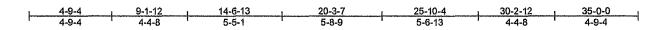


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Page 1







Scale = 1 65 9

Plate Offsets (X, Y) [2:0-0-4,Edge], [4.0-5-4 0-2-0], [6 0-2-8,0-3-0], [7:0-5-4,0 2-0], [9:0-0-4,Edge], [14 0-2-8,0-3-0]

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Loading	(pst)	Spacing	2-0-0	CSI		DEFL.	ìn	(lac)	l/defi	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 35	Vert(LL)	-0 19	13-14	>999	240	MT20	244/190
TCDL	100	Lumber DOL	1 25	BC	0 59	Vert(CT)	-0 38	13-14	>999	180		
BCLL	00*	Rep Stress Incr	YES	WB	0 18	Horz(CT)	0 13	9	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 189 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.2

BRACING

TOP CHORD

BOT CHORD

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

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

Max Horiz 2=-94 (LC 10)

Max Uplift 2=-35 (LC 12), 9=-35 (LC 12) Max Grav 2=1490 (LC 1), 9=1490 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES (lb) - Ma

Tension 1-2=0/40, 2-3=-2714/100, 3-4=-2364/114.

4-5=-2637/133, 5-7=-2650/134,

7-8=-2364/114, 8-9=-2713/100, 9-10=0/40

2-16=-23/2377, 15-16=-23/2377,

12-15=0/2648, 11-12=-32/2377,

9-11=-32/2377

 $3-15=-362/57,\ 4-15=0/337,\ 7-12=0/341,$

8-12=-362/57, 3-16=0/165, 5-14=-400/83,

4-14=-23/807, 5-13=-67/71, 6-13=-354/87,

7-13=-24/816, 8 11=0/164

NOTES

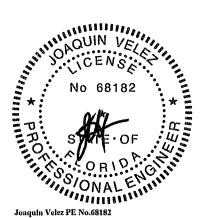
WEBS

 Unbalanced roof live loads have been considered for this design.

2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TcDL=6.0psf; BCDL=6.0psf, h=15ft, B=45ft; L=35ft, eave=5ft, Cat. II, Exp B, Enclosed, MWFRS (directional) and C-C Zone3 -1-6-0 to 2-0-0, Zone1 2-0-0 to 9-0-0, Zone2 9-0-0 to 13-11-6, Zone1 13-11-6 to 26-0-0, Zone2 26-0-0 to 30-11-6, Zone1 30-11-6 to 36-6-0 zone, cantilever left and right exposed, end vertical 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.
- 4) 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.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2 and 35 lb uplift at joint 9
- 8) 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.

LOAD CASE(S) Standard



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



Scale = 1 65 8 Plate Offsets (X, Y) [2:0-0-4,Edge], [4:0-5-4,0-2-0], [6:0-5-4,0-2-0], [8:0-0-4,Edge], [11 0-2-8,0-3-0], [13 0-2-8,0-3-0]

<u>11-0-0</u>

5-2-12

				T		**************************************						
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	Vdefi	∐d	PLATES	GRIP
TCLL (roof)	200	Plate Grip DOL	1 25	TC	0 43	Vert(LL)	-0 15	12	>999	240	MT20	244/190
TCDL	100	Lumber DOL	1 25	BC	0 59	Vert(CT)	-0 32	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0 12	8	n/a	n/a		
BCDL	100	Code	FBC2023/TPI2014	Matrix-AS							Weight: 186 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size)

2=0-3-8, 8=0-3-8 Max Horiz 2=-112 (LC 10)

Max Uplift 2=-35 (LC 12), 8=-35 (LC 12)

Max Grav 2=1490 (LC 1), 8=1490 (LC 1)

FORCES

TOP CHORD

(lb) - Maximum Compression/Maximum

5-9-4

5-9-4

Tension

1-2=0/40, 2-3=-2680/109, 3-4=-2221/126,

4-5=-2248/143, 5-6=-2248/143,

6-7=-2221/126, 7-8=-2680/109, 8-9=0/40 **BOT CHORD**

2-14=-23/2339, 12-14=-23/2339, 10-12=-32/2339, 8-10=-32/2339

3-14=0/211, 3-13=-482/69, 4-13=0/412, WEBS

4-12=-18/544, 5-12=-434/99, 6-12=-18/544,

6-11=0/412, 7-11=-482/69, 7-10=0/211

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf; BCDL=6 0psf; h=15ft; B=45ft; L=35ft, eave=5ft, Cat. II; Exp B, Enclosed, MWFRS (directional) and C-C Zone3 -1-6-0 to 2-0-0, Zone1 2-0-0 to 11-0-0, Zone2 11-0-0 to 15-11-6, Zone1 15-11-6 to 24-0-0, Zone2 24-0-0 to 29-2-12, Zone1 29-2-12 to 36-6-0 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.

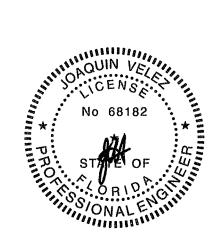
This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads

17-6-0

6-6-0

- * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2 and 35 lb uplift at joint 8.
- 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.

LOAD CASE(S) Standard



35-0-0

5-9-4

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

May 23,2025

29-2-12

5-2-12

<u> 24-0-0</u>

6-6-0

16023 Swingley Ridge Rd

6-2-12 Scale = 1 69 8 Plate Offsets (X, Y) [2:0-0-8,Edge], [3·0-2-8,0-3-0], [4:0-5-4,0-2-0], [6:0-5-4,0-2-0], [7:0-2-8,0-3-0], [8 0-0-8,Edge], [11:0-2-8,0-3-0], [13·0-2-8,0-3-0]

13-0-0

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1.25	TC	0 41	Vert(LL)	-0.14	12	>999	240	MT20	244/190
TCDL	100	Lumber DOL	1 25	BC	0.65	Vert(CT)	-0.27	12-13	>999	180		
BCLL	00*	Rep Stress Incr	YES	WB	0 55	Horz(CT)	0 12	8	n/a	n/a	1	
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS				*****	**		Weight: 194 lb	FT = 20%

17-6-0

4-6-0

22-0-0

4-6-0

28-2-12

6-2-12

LUMBER

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

BRACING

TOP CHORD

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

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

Max Horiz 2=-129 (LC 10)

Max Uplift 2=-35 (LC 12), 8=-35 (LC 12)

Max Grav 2=1490 (LC 1), 8=1490 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

<u>6-9-4</u>

6-9-4

1 2=0/40, 2-4=-2639/136, 4-5= 1875/151, 5-6=-1875/151, 6-8=-2639/136, 8-9=0/40

BOT CHORD 2-14=-13/2295, 12-14=-15/2291

10-12=-25/2291, 8-10=-23/2295

3-14=0/274, 3-13=-615/74, 4-13=0/443,

6-12=-17/338, 6-11=0/443, 7-11=-615/74, 7-10=0/274, 5-12=-279/63, 4-12=-17/338

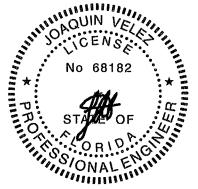
NOTES

WEBS

- Unbalanced roof live loads have been considered for this design,
- Wind. ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf; BCDL=6 0psf, h=15ft, B=45ft, L=35ft; eave=5ft; Cat. II; Exp B, Enclosed, MWFRS (directional) and C-C Zone3 -1-6-0 to 2-0-0. Zone1 2-0-0 to 13-0-0, Zone2 13-0-0 to 17-11-6, Zone1 17-11-6 to 22-0-0, Zone2 22-0-0 to 26-11-6, Zone1 26-11-6 to 36-6-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2 and 35 lb uplift at joint 8
- 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.

LOAD CASE(S) Standard



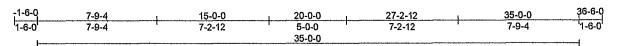
35-0-0

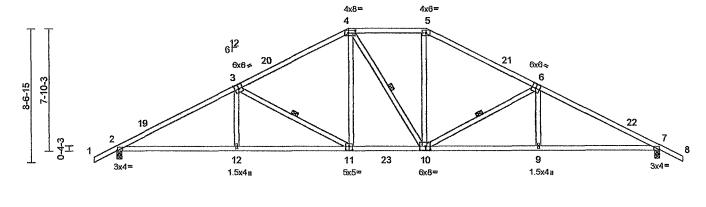
6-9-4

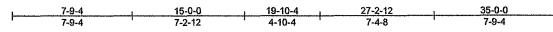
Josquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



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Scale = 1 74 Plate Offsets (X, Y) [2:0-0-4 Edge], [3:0-3-0,0-3-4], [4:0-5-4,0-2-0], [6:0-3-0,0-3-4], [7:0-0-4,Edge], [10:0-3-8,0-3-0], [11:0-2-8,0-3-0]

									_					
Loadir	ng	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	i/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.17	11-12	>999	240	MT20	244/190	
TCDL		10.0	Lumber DOL	1 25	BC	0.86	Vert(CT)	-0.34	11-12	>999	180			
BCLL		0.0*	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0 13	7	n/a	n/a			
BCDL		100	Code	FBC2023/TPI2014	Matrix-AS							Weight: 184 lb	FT = 20%	

LUMBER

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

WEBS

BRACING TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. 3-11, 4-10, 6-10 **WEBS** 1 Row at midpt

(size) REACTIONS 2=0-3-8, 7=0-3-8

Max Horiz 2=-147 (LC 10)

Max Uplift 2=-35 (LC 12), 7=-35 (LC 12) Max Grav 2=1642 (LC 17), 7=1639 (LC 18)

FORCES Tension

(lb) - Maximum Compression/Maximum

1-2=0/40, 2-4=-2836/146, 4-5=-1773/162,

TOP CHORD 5-7=-2831/146, 7-8=0/40

BOT CHORD 2-12=-8/2587 9-12=-20/2581 7-9=-18/2472 WEBS

3-12=0/324, 3-11=-858/81, 4-11=0/642. 4-10=-164/169, 5-10=0/616, 6-10=-861/81,

6-9=0/325

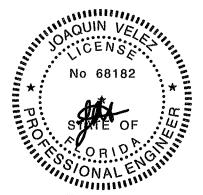
NOTES

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

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf; BCDL=6 0psf, h=15ft; B=45ft, L=35ft; eave=5ft; Cat. II, Exp B, Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 2-0-0, Zone1 2-0-0 to 15-0-0, Zone3 15-0-0 to 20-0-0, Zone2 20-0-0 to 24-11-6, Zone1 24-11-6 to 36-6-0 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10 0psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2 and 35 lb uplift at joint 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

LOAD CASE(S) Standard



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

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 15:56:13 ID:X8C1Ek9WPFAXLij30NOh8LzDxJP-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page 1

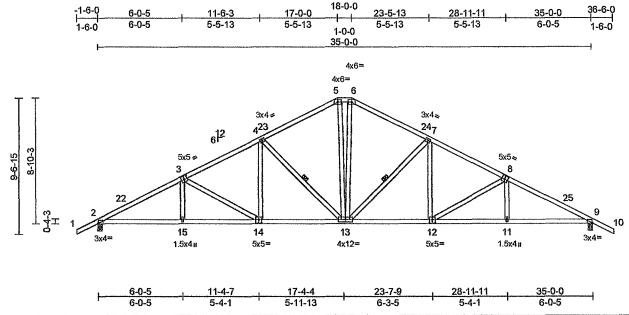


Plate Offsets (X, Y) [2 0-0-4,Edge], [3:0-2-8,0-3-0], [8.0-2-8,0-3-0], [9:0-0-4,Edge], [12:0-2-8,0-3-0], [14:0-2-8,0-3-0]

-											A 1000000		
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	1/defi	L/d	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0 13	13-14	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0 29	12-13	>999	180			
BCLL	00*	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.12	9	n/a	n/a			
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 206 lb	FT = 20%	

LUMBER

Scale = 1 81 2

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

2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied. WEBS 1 Row at midpt 4-13, 7-13

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

Max Horiz 2=165 (LC 11)

Max Uplift 2=-35 (LC 12), 9=-35 (LC 12)

Max Grav 2=1490 (LC 1), 9=1490 (LC 1)

FORCES

TOP CHORD

BOT CHORD

(lb) - Maximum Compression/Maximum Tension

5-6=-1442/148, 1 2=0/40, 2-4=-2666/110,

4-5=-1659/142, 6-7=-1659/142,

7-9=-2666/110, 9-10=0/40 2-15=0/2323, 13-15=0/2320, 11-13=0/2320,

9-11=0/2323

4-13=-664/74, 7-13=-664/74, 3-15=0/227,

3-14=-497/44, 4-14=0/413, 7-12=0/413,

8-12=-497/44, 8-11=0/227, 5-13=-27/527,

6-13=-27/527

NOTES

WEBS

- Unbalanced roof live loads have been considered for this design.
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft, L=35ft; eave=5ft; Cat. II, Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 2-0-0, Zone1 2-0-0 to 17-0-0, Zone3 17-0-0 to 18-0-0, Zone2 18-0-0 to 22-11-6, Zone1 22-11-6 to 36-6-0 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=160

- 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 Opsf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2 and 35 lb uplift at joint 9
- 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

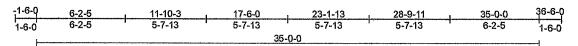
LOAD CASE(S) Standard

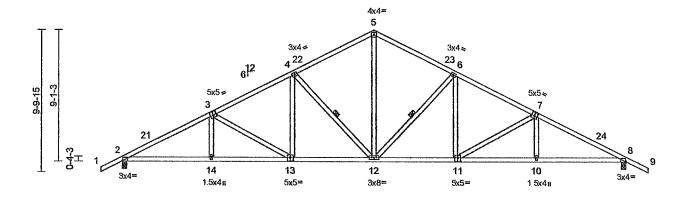


Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MITek industries, Inc. Thu May 22 15:56:13 ID NENb91u5XoicUSEDriZvLvzDxOw-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





L	6-2-5	11-8-7	17-6-0	23-3-9	28-9-11	35-0-0
1	6-2-5	5-6-1	5-9-9	5-9-9	5-6-1	6-2-5

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

							_			(internal and		
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defi	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.14	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0 62	Vert(CT)	-0.29	11-12	>999	180		
BCLL	00*	Rep Stress Incr	YES	WB	0 37	Horz(CT)	0 12	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS		` '					Weight 195 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied WEBS 1 Row at midpt 4-12, 6-12

REACTIONS

2=0-3-8, 8=0-3-8 Max Horiz 2=-169 (LC 10) Max Uplift 2=-35 (LC 12), 8=-35 (LC 12)

Max Grav 2=1490 (LC 1), 8=1490 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

(size)

1-2=0/40, 2-4=-2659/138, 4-5=-1652/172,

5-6=-1652/172, 6-8=-2659/138, 8-9=0/40 BOT CHORD 2-14=0/2316, 12-14=-1/2313,

10-12=-16/2313, 8-10=-14/2316

3-14=0/237, 3-13=-517/47, 4-13=0/418,

4-12=-669/90, 5-12=-37/1078, 6-12=-669/90,

6-11=0/418, 7-11=-517/47, 7-10=0/237

NOTES

WEBS

- Unbalanced roof live loads have been considered for 1) this design.
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft, L=35ft; eave=5ft, Cat. II, Exp B, Enclosed, MWFRS (directional) and C-C Zone3 -1-6-0 to 2-0-0. Zone1 2-0-0 to 17-6-0, Zone2 17-6-0 to 22-5-6, Zone1 22-5-6 to 36-6-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2 and 35 lb uplift at joint 8.
- 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

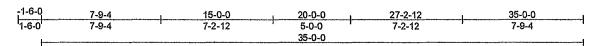
LOAD CASE(S) Standard

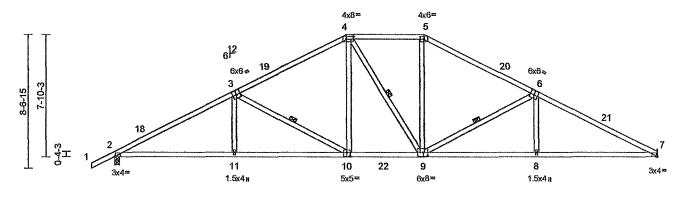
Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 15:56:14 ID Mrd9ePec_YDr8snlMn63mnzDxIn-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7J4zJC?f

Page 1





7-9-4	15-0-0	19-10-4	27-2-12	35-0-0
7-9-4	7-2-12	4-10-4	7-4-8	7-9-4

Plate Offsets (X, Y) [2:0-0-4,Edge], [3.0-3-0,0-3-4], [4:0-5-4,0-2-0], [6:0-3-0,0-3-4], [7:0-0-4 Edge], [9.0-3-8,0-3-0], [10:0-2-8,0-3-0]

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.17	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.34	10-11	>999	180		
BCLL	00*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0 13	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS		•					Weight: 181 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

TOP CHORD

1 Row at midpt 3-10, 4-9, 6-9 (size) 2=0-3-8, 7= Mechanical Max Horiz 2=144 (LC 11) Max Uplift 2=-36 (LC 12)

Max Grav 2=1643 (LC 17), 7=1557 (LC 18) (lb) - Maximum Compression/Maximum

FORCES Tension

1 2=0/40, 2-4=-2839/151, 4-5=-1777/163,

5-7=-2847/151 BOT CHORD

2-11=-41/2583, 8-11=-43/2577 7-8=-37/2491 3-11=0/324, 3-10=-858/81, 4-10=0/643, 4-9=-164/170, 5-9=0/618, 6-9=-875/84,

6-8=0/327

NOTES

WEBS

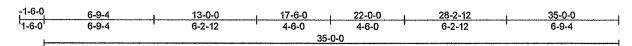
- Unbalanced roof live loads have been considered for this design.
- Wind ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6 0psf; h=15ft; B=45ft, L=35ft, eave=5ft; Cat. II, Exp B, Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 2-0-0, Zone1 2-0-0 to 15-0-0, Zone3 15-0-0 to 20-0-0, Zone2 20-0-0 to 24-11-6, Zane1 24-11-6 to 35-0-0 zane; 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
- 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.
- Provide adequate drainage to prevent water ponding

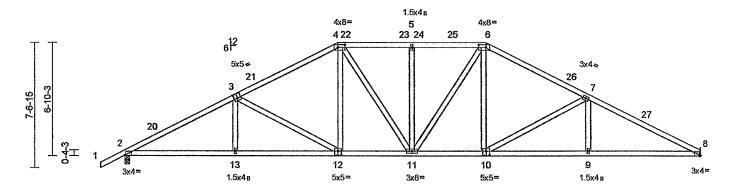
- This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10 0psf
- Refer to girder(s) for truss to truss connections
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint
- 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

LOAD CASE(S) Standard



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







Scale = 1 69.8

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

5)

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defi	1 /d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1 25	TO	0 43	Vert(LL)	-0.14	14	>999		MT20	244/190
· ·		, ,		10				40.44			W120	244/190
TCDL		Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.27	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.12	8	n/a	n/a		
BCDL	100	Code	FBC2023/TPI2014	Matrix-AS		. `					Weight, 192 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size)

(size) 2=0-3-8, 8= Mechanical

Max Horiz 2=126 (LC 11)

Max Uplift 2=-36 (LC 12) Max Grav 2=1492 (LC 1), 8=1398 (LC 1)

FORCES (lb) - l

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/40, 2-4=-2643/141, 4-5=-1881/157,

5-6=-1881/157, 6-7=-2067/142,

7-8=-2646/116

BOT CHORD 2-13=-46/2298, 11-13=-48/2295,

9-11=-44/2320, 8-9=-44/2320

WEBS 3-13=0/274, 3 12=-615/74, 4-12=0/443,

6-11=-16/337, 6-10=0/444, 7-10=-637/77,

7-9=0/275, 5-11=-279/63, 4-11=-18/340

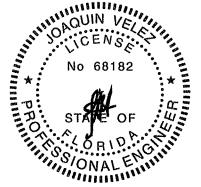
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vascl=101mph, TCDL=6.0psf; BCDL=6 0psf; h=15ff; B=45ff; L=35ff, eave=5ff, Cat. II, Exp B, Enclosed, MWFRS (directional) and C-C Zone3 -1-6-0 to 2-0-0, Zone1 2-0-0 to 13-0-0, Zone2 13-0-0 to 17-11-6, Zone1 17-11-6 to 22-0-0, Zone2 22-0-0 to 26-11-6, Zone1 26-11-6 to 35-0-0 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
- 6) * I his truss has been designed for a live load of 20 Opsf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint
- 9) 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

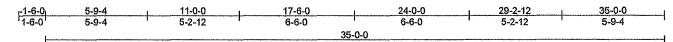
LOAD CASE(S) Standard



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

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 15:56:14 ID:ngtl92m8OWHmdlpj?lyT9UzDxVY-RtC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDol7J4zJC?f

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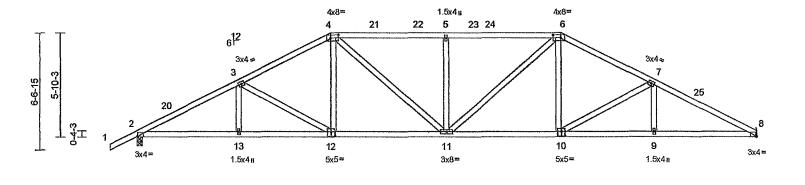




Plate Offsets (X, Y) [2:0-0-4,Edge], [4 0-5-4,0-2-0], [6 0-5-4,0-2-0], [8:0-0-4,Edge], [10:0-2-8 0-3-0], [12 0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(ioc)	Vdefi	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 43	Vert(LL)	-0 15	11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1 25	BC	0.63	Vert(CT)	-0 32	10-11	>999	180		
BCLL.	00*	Rep Stress incr	YES	WB	0 32	Horz(CT)	0 12	8	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 183 lb	FT = 20%

LUMBER

Scale = 1 64.8

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

BRACING

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

REACTIONS (size) 2=0-3-8, 8= Mechanical

Max Horiz 2=108 (LC 11)

Max Uplift 2=-36 (LC 12)

Max Grav 2=1492 (LC 1), 8=1398 (LC 1)

FORCES (lb) - N

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/40, 2-3=-2684/113, 3-4=-2226/130,

4-5=-2255/150, 5-6=-2255/150, 6-7=-2231/133, 7-8=-2690/115

BOT CHORD 2-13=-56/2343, 11-13=-56/2343.

9-11=-52/2365, 8-9=-52/2365

WEBS 3-13=0/211, 3-12=-482/69, 4-12=0/412,

4-11=-19/547, 5 11=-435/100, 6-11=-16/543,

6-10=0/415, 7-10=-502/73, 7-9=0/214

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf, h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II, Exp B, Enclosed, MWFRS (directional) and C-C Zone3 -1-6-0 to 2-0-0, Zone1 2-0-0 to 11-0-0, Zone2 11-0-0 to 15-11-6, Zone1 15-11-6 to 24-0-0, Zone2 24-0-0 to 29-2-12, Zone1 29-2-12 to 35-0-0 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.
- 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.
- * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint
- 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.

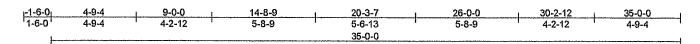
LOAD CASE(S) Standard

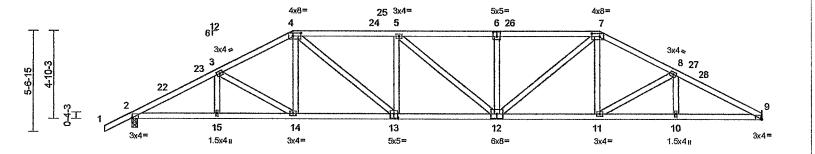


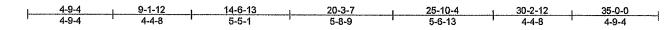
Joaquin Velez PE No.68182 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MITek Industries, Inc. Thu May 22 15:56:14
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Page. 1







Scale = 1.63 (

Plate Offsets (X, Y) [2.0-0-4,Edge], [4:0-5-4,0-2-0], [6:0-2-8,0-3-0], [7:0-5-4,0-2-0], [9.0-0-4,Edge], [13 0-2-8,0-3-0]

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defi	L∕d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 36	Vert(LL)	-0 19	12-13	>999	240	MT20	244/190
TCDL	100	Lumber DOL	1 25	BC	0 59	Vert(CT)	-0 39	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0 18	Horz(CT)	0 13	9	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS		, ,					Weight, 186 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-3-8, 9= Mechanical Max Horiz 2=90 (LC 11)

Max Holiz 2=90 (LC 11)

Max Uplift 2=-36 (LC 12)
Max Grav 2=1492 (LC 1), 9=1398 (LC 1)

FORCES (lb) - Ma

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/40, 2-3=-2718/104, 3-4=-2368/119,

4-5=-2643/135, 5-7=-2659/143, 7-8=-2377/125, 8-9=-2744/111

2-15=-55/2381, 14-15=-55/2381,

11-14=-17/2655, 10-11=-54/2408,

9-10=-54/2408

3-14=-362/56, 4-14=0/337, 7-11=0/343, 8-11=-384/62, 5-13=-402/83, 4-13=-23/810,

5-12=-66/74, 6-12=-354/88, 7-12=-22/815,

3-15=0/165, 8-10=0/167

NOTES

WEBS

BOT CHORD

Unbalanced roof live loads have been considered for this design.

2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft, eave=5ft, Cat. II, Exp B, Enclosed, MWFRS (directional) and C-C Zone3 -1-6-0 to 2-0-0, Zone1 2-0-0 to 9-0-0, Zone2 9-0-0 to 13-11-6, Zone1 13-11-6 to 26-0-0, Zone2 26-0-0 to 30-11-6, Zone1 30-11-6 to 35-0-0 zone, cantilever left and right exposed, end vertical 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.
- 4) 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.
- 6) * This truss has been designed for a live load of 20 Opsf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint
- 9) 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.

LOAD CASE(S) Standard

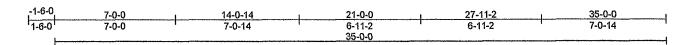


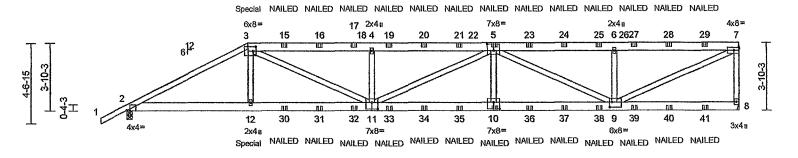
Jonquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MITek Industries, Inc. Thu May 22 15:56:15 ID:TK_4RMKIOxWjca0AAdZM5tzDxE1-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page 1





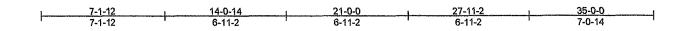


Plate Offsets (X, Y) [2:0-2-0,Edge], [3:0-2-0,0-3-0], [5:0-4-0,0-4-8], [9:0-1-8,0-3-8], [10:0-4-0,0-4-8], [11:0-4-0,0-4-8]

										THE REAL PROPERTY.		
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	1/deft	Ľď₫	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 62	Vert(LL)	-0 24	10-11	>999	240	MT20	244/190
TCDL	100	Lumber DOL	1.25	BC	0 78	Vert(CT)	-0 48	10-11	>876	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 453 lb	FT = 20%

LUMBER

2x6 SP No.2 *Except* 1-3 2x4 SP No.2 TOP CHORD 2x6 SP No.2 **BOT CHORD**

2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-5-11 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc BOT CHORD

bracina

REACTIONS (size) 2=0-3-8, 8= Mechanical Max Horiz 2=113 (LC 7)

Max Uplift 2=-215 (LC 8), 8=-92 (LC 8)

Max Grav 2=2918 (LC 1), 8=3048 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/40, 2-3=-5946/407, 3-4=-7940/431,

4-6=-7935/430, 6-7=-5302/206,

7-8=-2890/156

2-12=-328/5288, 9-12=-324/7852, 8-9=-23/90

3-12=0/792, 3-11=-55/3058, 4-11=-1013/265,

5-11=-128/220, 5-10=0/561, 5-9=-2839/140,

6-9=-933/231, 7-9=-190/5813

NOTES

WEBS

TOP CHORD

BOT CHORD

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, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows. 2x6 - 2 rows

staggered at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

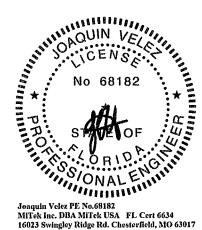
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf, BCDL=6 0psf, h=15ft, B=45ft; L=35ft, eave=5ft, Cat. II Exp B, Enclosed, MWFRS (directional), cantilever left and right exposed, end vertical 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 Opsf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 8 and 215 lb uplift at joint 2.
- 11) "NAILED" indicates 3-10d (0 148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 259 ib down and 140 lb up at 7-0-0 on top chord, and 410 lb down and 16 lb up at 7-0-0 on bottom chord The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced) Lumber Increase=1.25, Plate Increase=1 25 Uniform Loads (lb/ft) Vert: 1-3=-60, 3-7=-60, 2-8=-20 Concentrated Loads (ib)

Vert: 3=-180 (F), 12=-359 (F), 5=-131 (F), 10=-67 (F), 15=-125 (F), 16=-125 (F), 17=-131 (F), 19=-131 (F), 20=-131 (F), 21=-131 (F), 23=-131 (F), 24=-131 (F), 25=-131 (F), 27=-131 (F), 28=-131 (F), 29= 131 (F), 30=-62 (F), 31=-62 (F), 32=-67 (F), 33=-67 (F), 34=-67 (F), 35=-67 (F), 36=-67 (F), 37=-67 (F), 38=-67 (F), 39=-67 (F), 40=-67 (F), 41=-67 (F)



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

May 23,2025

MARNING - 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 odlapse with possible personal injury and properly damage. For general guidance regarding the



Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 15:56:16 ID:N98?owTmOW8zBNJyrWj54VzDxA_-RfC?PsB70Hq3NSgPqnL8w3ufTXbGKWrCDoi7J4zJC?f Page. 1

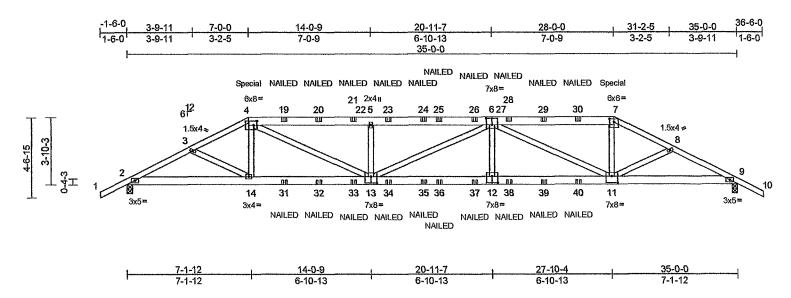


Plate Offsets (X, Y) [4:0-2-4,0-3-0], [6:0-4-0,0-4-8], [7:0-3-0,0-2-7], [11:0-4-0,0-4-8], [12:0-4-0,0-4-8], [13:0-4-0,0-4-8]													
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	1/defi	L/a	PLATES	GRIP	
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 47	Vert(LL)	-0 24	12-13	>999	240	MT20	244/190	
TCDL	10 0	Lumber DOL	1.25	BC	0 82	Vert(CT)	-0 50	12-13	>844	180			
BCLL	00*	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.12	9	n/a	n/a			
DODI	10.0	Codo	EDC2022TDI204A	Matrix MC		' '					Weight: 440 th	ET = 20%	

LUMBER

TOP CHORD 2x4 SP No 2 *Except* 4-6,6-7 2x6 SP No 2 BOT CHORD 2x6 SP No 2 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-10-9 oc purlins.

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

REACTIONS (size)

2=0-3-8, 9=0-3-8 Max Horiz 2=-76 (LC 6)

Max Uplift 2=-451 (LC 8), 9=-451 (LC 8) Max Grav 2=3163 (LC 13), 9=3163 (LC 14)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-2=0/40, 2-3=-6547/906, 3-4=-6396/880,

TOP CHORD 4-5=-8734/1230, 5-7=-8729/1228,

7-8=-6394/878, 8-9=-6542/905, 9-10=0/40 2 14=-737/5864, 11-14=-1091/8721,

BOT CHORD 9-11=-736/5802

4-14=0/793 4-13=-467/3344 WERS

5-13=-1085/399, 6-13=-39/35, 6-12=0/590,

6-11=-3280/465, 7-11=-142/2201,

3-14=-146/178, 8-11=-142/181

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, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows 2x6 - 2 rows staggered at 0-9-0 oc.

Web connected as follows 2x4 - 1 row at 0-9-0 oc. All toads 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
- Wind: ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf; BCDL=6 0psf, h=15ft, B=45ft; L=35ft, eave=5ft, Cat. II, Exp B, Partially Enclosed; MWFRS (directional), cantilever left and right exposed, end vertical 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 toad nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20 Opsf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 451 lb uplift at joint 2 and 451 lb uplift at joint 9
- 10) "NAILED" indicates 3-10d (0 148"x3") or 3-12d (0.148"x3 25") toe-nails per NDS guidlines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 282 Ib down and 117 lb up at 7-0-0, and 282 lb down and 117 lb up at 28-0-0 on top chord, and 410 lb down and 16 lb up at 7-0-0, and 410 lb down and 16 lb up at 27-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced) Lumber Increase=1 25, Plate Increase=1 25 Uniform Loads (lb/ft) Vert: 1-4=-60, 4-7=-60, 7-10=-60, 2-9=-20 Concentrated Loads (lb)

Vert 4=-180 (F), 7=-180 (F), 14=-359 (F), 11=-359 (F), 19=-125 (F), 20=-125 (F), 21=-125 (F), 23=-125 24=-125 (F), 25=-125 (F), 26=-125 (F), 28=-125 29=-125 (F), 30=-125 (F), 31=-62 (F), 32=-62 33=-62 (F), 34=-62 (F), 35=-62 (F), 36=-62 (F) 37=-62 (F), 38=-62 (F), 39=-62 (F), 40=-62 (F)

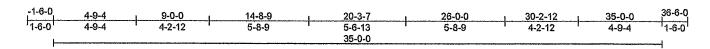


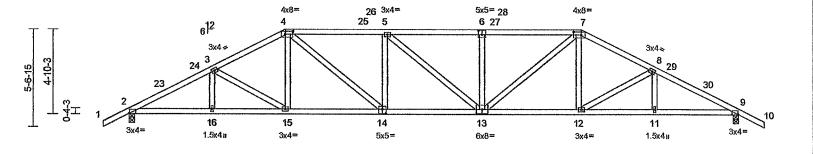
Jonquin Velez PE No.68182 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

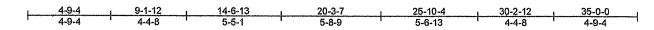


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Page 1







Scale = 1.65 9

Plate Offsets (X, Y) [2.0-0-4,Edge], [4'0-5-4'0-2-0], [6'0-2-8,0-3-0], [7'0-5-4,0-2-0], [9:0-0-4,Edge], [14'0-2-8,0-3-0]

***************************************	-						e mari em los yalans, mana	-		-	CHORSE WARREND BETTER CONTROL FOR THE	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	Γ/g	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 35	Vert(LL)	-0 19	13-14	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 59	Vert(CT)	-0 38	13-14	>999	180		
BCLL	00*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0 13	9	n/a	n/a		
BCDL	100	Code	FBC2023/TPI2014	Matrix-AS							Weight: 189 lb	FT = 20%

LUMBER

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

WEBS BRACING

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

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

Max Horiz 2=94 (LC 11)

Max Uplift 2=-199 (LC 12), 9=-199 (LC 12) Max Grav 2=1490 (LC 1), 9=1490 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/40, 2-3=-2714/419, 3-4=-2364/399, 4-5=-2637/464, 5-7=-2650/467,

7-8=-2364/398, 8-9=-2713/419, 9-10=0/40

BOT CHORD 2-16=-296/2414, 15-16=-296/2414,

12-15=-286/2648, 11-12=-306/2377,

9-11=-306/2377

3-15=-407/115, 4-15=0/337, 7-12=0/341,

8-12=-406/116, 3-16=0/165, 5-14=-400/137,

4-14=-108/807, 5-13=-67/71, 6-13=-354/141,

7-13=-110/816, 8-11=0/164

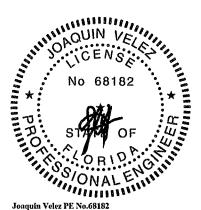
NOTES

WEBS

- Unbalanced roof live loads have been considered for this design.
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf; BCDL=6 0psf; h=15ft; B=45ft; L=35ft, eave=5ft; Cat. II; Exp B, Partially Enclosed, MWFRS (directional) and C-C Zone3 -1-6-0 to 2-0-0, Zone1 2-0-0 to 9-0-0, Zone2 9-0-0 to 13-11-6, Zone1 13-11-6 to 26-0-0, Zone2 26-0-0 to 30-11-6, Zone1 30-11-6 to 36-6-0 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

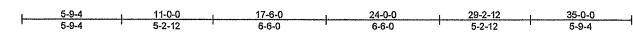
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 2 and 199 lb uplift at joint 9
- 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.

LOAD CASE(S) Standard



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





3x8=

5x5=

1.5x4 n

Plate Offsets (X, Y) [2 0-0-4,Edge], [4.0-5-4,0-2-0], [6·0-5-4,0-2-0], [8·0-0-4,Edge], [11 0-2-8,0-3-0], [13 0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 43	Vert(LL)	-0 15	12	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 59	Vert(CT)	-0 32	11-12	>999	180		
BCLL	00*	Rep Stress Incr	YES	WB	0 34	Horz(CT)	0 12	8	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS		` '					Weight: 186 lb	FT = 20%

LUMBER

Scale = 1 65 8

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

BRACING

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

REACTIONS (size)

2=0-3-8, 8=0-3-8 Max Horiz 2=112 (LC 11)

Max Uplift 2=-199 (LC 12), 8=-199 (LC 12) Max Grav 2=1490 (LC 1), 8=1490 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/40, 2-3=-2680/422, 3-4=-2221/395,

4-5=-2248/434, 5-6=-2248/434, 6-7=-2221/394, 7-8=-2680/422, 8-9=0/40

2-14=-290/2390, 12-14=-290/2390,

10-12=-299/2339, 8-10=-299/2339

WEBS 3-14=0/211, 3-13=-538/145, 4-13=-1/412, 4-12=-69/544, 5-12=-434/165, 6-12=-69/544,

6-11=-1/412, 7-11=-538/145, 7-10=0/211

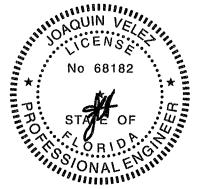
NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for 1) this design.
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft, L=35ft, eave=5ft; Cat. II, Exp B, Partially Enclosed, MWFRS (directional) and C-C Zone3 -1-6-0 to 2-0-0, Zone1 2-0-0 to 11-0-0, Zone2 11-0-0 to 15-11-6, Zone1 15-11-6 to 24-0-0, Zone2 24-0-0 to 29-2-12, Zone1 29-2-12 to 36-6-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 2 and 199 lb uplift at joint 8
- 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.

LOAD CASE(S) Standard



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



6-2-12 Plate Offsets (X, Y) [2.0-0-8,Edge], [3:0-2-8,0-3-0], [4 0-5-4,0-2-0], [6:0-5-4,0-2-0], [7 0-2-8,0-3-0], [8 0-0-8,Edge], [11:0-2-8,0-3-0], [13:0-2-8,0-3-0]

13-0-0

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.14	12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0 65	Vert(CT)	-0.27	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.12	8	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS							Weight, 194 lb	FT = 20%

17-6-0

4-6-0

22-0-0

4-6-0

28-2-12

6-2-12

LUMBER

Scale = 1:69.8

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

BRACING

FORCES

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

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

Max Horiz 2=129 (LC 11)

Max Uplift 2=-199 (LC 12), 8=-199 (LC 12) Max Grav 2=1490 (LC 1), 8=1490 (LC 1)

6 - 9 - 4

6-9-4

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/40, 2-4=-2639/415, 4-5=-1875/402, 5-6=-1875/402, 6-8=-2639/415 8-9=0/40 2-14=-272/2355, 12-14=-274/2352,

BOT CHORD 10-12=-284/2291, 8-10=-282/2295 WEBS 3-14=0/274, 3-13=-679/169, 4-13=-15/443,

6-12=-41/338, 6-11=-15/443, 7-11=-680/168,

7-10=0/274, 5-12=-279/102, 4-12=-41/338

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf, BCDL=6 0psf; h=15ft, B=45ft; L=35ft, eave=5ft; Cat. II, Exp B, Partially Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 2-0-0, Zone1 2-0-0 to 13-0-0, Zone2 13-0-0 to 17-11-6, Zone1 17-11-6 to 22-0-0, Zone2 22-0-0 to 26-11-6, Zone1 26-11-6 to 36-6-0 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.

- 5) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 2 and 199 lb uplift at joint 8
- 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.

LOAD CASE(S) Standard



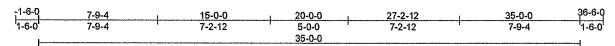
35-0-0

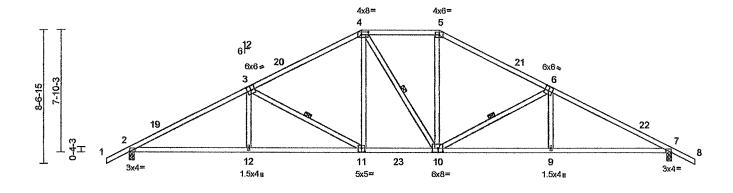
6-9-4

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

Run: 8.83 S. Apr 24 2025 Print: 8.830 S. Apr 24 2025 MTTek Industries, Inc. Thu May 22 15:56:17 ID.XrZJ_NlhquiF68YTfXIAnkZzDxCC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page. 1





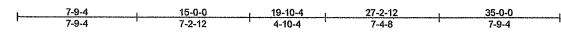


Plate Offsets (X, Y) [2:0-0-4,Edge], [3:0-3-0,0-3-4], [4:0-5-4,0-2-0], [6:0-3-0,0-3-4], [7:0-0-4,Edge], [10:0-3-8,0-3-0], [11:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.17	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1 25	BC	0.86	Vert(CT)	-0.34	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.13	7	n/a	n/a		
BCDL	10,0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 184 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD
Rigid ceiling directly applied.
WEBS
Structural wood sheathing directly applied.
Rigid ceiling directly applied.
1 Row at midpt 3-11, 4-10, 6-10

REACTIONS (size) 2=0-3-8, 7=0-3-8

Max Horiz 2=-147 (LC 10) Max Uplift 2=-199 (LC 12), 7=-199 (LC 12)

Max Grav 2=1765 (LC 17), 7=1762 (LC 18)
(lb) - Maximum Compression/Maximum

Tension
TOP CHORD 1-2=0/40

1-2=0/40, 2-4=-3061/411, 4-5=-1941/386,

5-7=-3056/411, 7-8=0/40

BOT CHORD 2-12=-259/2776, 9-12=-271/2770

7-9=-269/2660

WEBS 3-12=0/324, 3-11=-941/192, 4-11=-22/682,

4-10=-164/169, 5-10=-28/655,

6-10=-944/192, 6-9=0/325

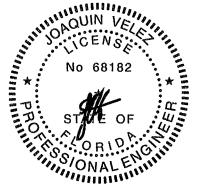
NOTES

FORCES

- Unbalanced roof live loads have been considered for this design.
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf; BCDL=6.0psf, h=15ft; B=45ft, L=35ft, eave=5ft, Cat. II, Exp B, Partially Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 2-0-0, Zone1 2-0-0 to 15-0-0, Zone3 15-0-0 to 20-0-0, Zone2 20-0-0 to 24-11-6, Zone1 24-11-6 to 36-6-0 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.
- 4) Provide adequate drainage to prevent water ponding.

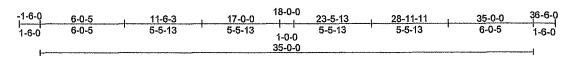
- This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) *This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10 0psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 2 and 199 lb uplift at joint 7
- 8) 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

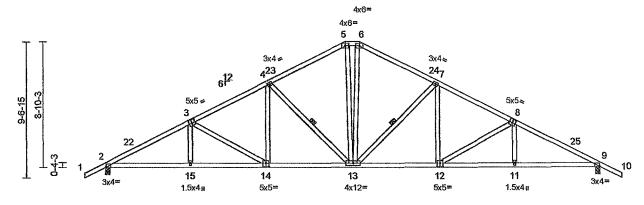
LOAD CASE(S) Standard



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







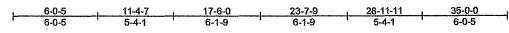


Plate Offsets (X, Y) [2 0-0-4,Edge], [3 0-2-8,0-3-0], [8.0-2-8,0-3-0], [9:0-0-4,Edge], [12:0-2-8,0-3-0], [14 0-2-8,0-3-0]

EMERT POWER PROPERTY OF THE PR				1			-	-				
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defi	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.13	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1 25	BC	0.61	Vert(CT)	-0.29	13-14	>999	180		
BCLL	00*	Rep Stress Incr	YES	WB	0 37	Horz(CT)	0.12	9	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS				_			Weight. 206 lb	FT = 20%

LUMBER

Scale = 1812

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

2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied. Rigid ceiling directly applied BOT CHORD 4-13, 7-13 WEBS 1 Row at midpt

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

Max Horiz 2=-165 (LC 10)

Max Uplift 2=-199 (LC 12), 9=-199 (LC 12)

Max Grav 2=1490 (LC 1), 9=1490 (LC 1)

FORCES

TOP CHORD

BOT CHORD

(lb) - Maximum Compression/Maximum Tension

5-6=-1442/357, 1-2=0/40, 2-4=-2666/386,

4-5=-1659/359, 6-7=-1659/359

7-9=-2666/386, 9-10=0/40

2-15=-252/2409, 13-15=-253/2406, 11-13=-263/2320, 9-11=-262/2323

WEBS 4-13=-728/173, 7-13=-728/173, 3-15=0/227,

3-14=-546/121, 4-14=0/413, 7-12=0/413, 8-12=-547/121, 8-11=0/227, 5-13=-96/567,

6-13=-96/567

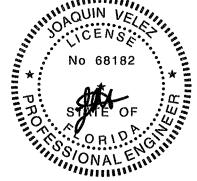
NOTES

Unbalanced roof live loads have been considered for this design.

Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft, L=35ft; eave=5ft; Cat. II; Exp B, Partially Enclosed, MWFRS (directional) and C-C Zone3 -1-6-0 to 2-0-0, Zone1 2-0-0 to 17-0-0, Zone3 17-0-0 to 18-0-0, Zone2 18-0-0 to 22-11-6, Zone1 22-11-6 to 36-6-0 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=160

- 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.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 2 and 199 lb uplift at joint 9
- 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

LOAD CASE(S) Standard



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

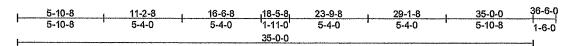
Hip

11

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 15:56:18 ID ucxUIWQpe5JAs9IQpTAwbMzDxBK-RfC?PsB70Hq3NSgPqnL8w3uiTXbGKWrCDoi7J4zJC?f Page 1



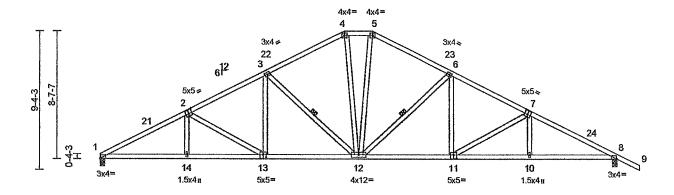




Plate Offsets (X, Y) [1:0-0-4,Edge], [2:0-2-8,0-3-0], [7:0-2-8,0-3-0], [8:0-0-4,Edge], [11:0-2-8,0-3-0], [13:0-2-8,0-3-0]

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.14	12-13	>999	240	MT20	244/190
TÇDL	100	Lumber DOL	1 25	BC	0.64	Vert(CT)	-0 30	12-13	>999	180		
BCLL	00*	Rep Stress Incr	YES	WB	0 34	Horz(CT)	0.12	8	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 202 lb	FT = 20%

LUMBER

Scale = 1 77 7

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

BRACING

TOP CHORD

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

WEBS 1 Row at midpt 3-12, 6-12

REACTIONS (size) 1=0-3-8, 8=0-3-8 Max Horiz 1=-157 (LC 10)

Max Uplift 1=-161 (LC 12), 8=-200 (LC 12)

Max Grav 1=1399 (LC 17), 8=1492 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

4-5=-1483/365, 1-3=-2681/412,

3-4=-1671/364, 5-6=-1672/360,

6-8=-2676/397, 8-9=0/40 1-14=-277/2437, 12-14=-279/2434,

BOT CHORD 10-12=-274/2330, 8-10=-273/2333

3-12=-728/171, 6-12=-724/170, 2-14=0/219, 2-13=-543/135, 3-13=0/412, 6-11=0/410,

7-11=-526/117, 7-10=0/216, 4-12=-83/542,

5-12=-83/543

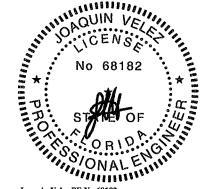
NOTES

WEBS

- Unbalanced roof live loads have been considered for
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft, L=35ft; eave=5ft, Cat. II, Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-6-0, Zone1 3-6-0 to 16-6-8, Zone3 16-6-8 to 18-5-8, Zone2 18-5-8 to 23-4-14, Zone1 23-4-14 to 36-6-0 zone, cantilever left and right exposed, end vertical left and right exposed:C-C for members and forces & MWERS for reactions shown, Lumber DOL=1 60 plate grip DOL=160

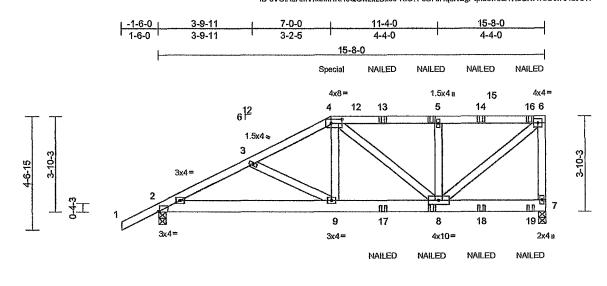
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent 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 3-06-00 tail by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at joint 1 and 200 lb uplift at joint 8.
- 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

LOAD CASE(S) Standard



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

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MITek Industries, Inc. Thu May 22 15:56:18 ID 9VCIA5AmVfabmRKHoQGwzxzDx93-RfC?PsB70Hq3NSgPqnl.8w3ulTXbGKWrCDol7J4zJC?f Page. 1



7-1-12	11-4-0	15-8-0
7-1-12	4-2-4	4-4-0

Plate Offsets (X, Y) [2:0-0-8,Edge], [4:0-5-4,0-2-0]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1 25	TC	0.47	Vert(LL)	-0 04	9	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.09	9-11	>999	180		
BCLL	00*	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 98 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 2x6 SP No 2 BOT CHORD 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-7 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8, 7=0-3-8

Max Horiz 2=115 (LC 5) Max Uplift 2=-139 (LC 8), 7=-190 (LC 5)

Max Grav 2=1196 (LC 13), 7=1556 (LC 13) (lb) - Maximum Compression/Maximum

FORCES

TOP CHORD

BOT CHORD

Tension 1-2=0/40, 2-3=-2156/251, 3-4=-1970/242,

4-5=-1394/195, 5-6=-1394/195,

6-7=-1416/239 2-9=-253/1944, 8-9=-234/1778, 7-8=-30/55

4-9=0/689, 4-8=-480/51, 5-8=-622/230,

WEBS 6-8=-214/1770, 3-9=-228/70

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II, Exp B, Enclosed; MWFRS (directional), cantilever left and right exposed, end vertical 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 190 lb uplift at joint
- 7 and 139 lb uplift at joint 2. "NAILED" indicates 3-10d (0 148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 259 Ib down and 140 lb up at 7-0-0 on top chord, and 410 lb down and 16 lb up at 7-0-0 on bottom chord The design/selection of such connection device(s) is the responsibility of others
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

LOAD CASE(S) Standard

Dead + Roof Live (balanced) Lumber Increase=1.25, Plate Increase=1 25 Uniform Loads (lb/ft)

Vert 1-4=-60, 4-6=-60, 2-7=-20

Concentrated Loads (ib)

Vert. 4=-180 (B), 9=-359 (B), 5=-125 (B), 8=-62 (B), 13=-125 (B), 14=-125 (B), 16=-142 (B), 17=-62 (B),

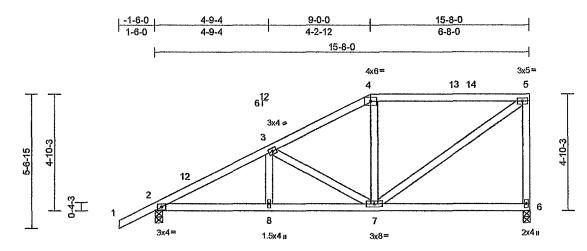
18=-62 (B), 19=-68 (B)

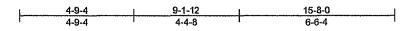


Jonquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd Chesterfield, MO 63017 Date:

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 15:56:18 ID:sulD8uuj9HY?tlVgONrl?tzDx9R-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7J4zJC?f

Page





Scal	9 :	= 1	1 4	7 9
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defi	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 45	Vert(LL)	-0.05	6-7	>999	240	MT20	244/190
TCDL	100	Lumber DOL	1 25	BC	0.37	Vert(CT)	-0 10	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0 16	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight 85 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 6=0-3-8

Max Horiz 2=146 (LC 11) Max Uplift 2=-35 (LC 12) 6=-13 (LC 9)

Max Grav 2=715 (LC 1), 6=616 (LC 23) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-2=0/40, 2-3=-1026/56, 3-4=-659/83,

4-5=-541/91, 5-6=-553/107 2-8=-184/872, 7-8=-184/872, 6-7=-49/76

BOT CHORD **WEBS**

3-7=-376/65, 4-7=-65/102, 5-7=-93/621

3-8=0/164

NOTES

TOP CHORD

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

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft, L=24ft; eave=4ft; Cat. II, Exp B, Enclosed, MWFRS (directional) 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 15-6-4 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
- 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 Opsf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 6 and 35 lb uplift at joint 2
- 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

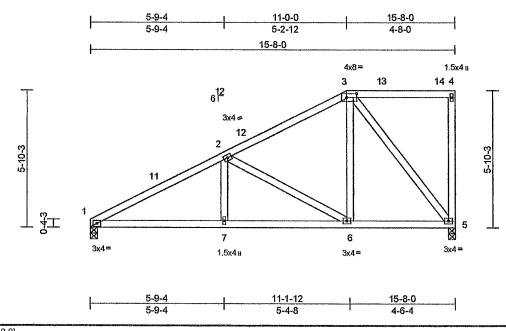
LOAD CASE(S) Standard

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



Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 15:56:18 ID:ZpM?EJ?_oLpa4HGb_T0eP_zDx9H-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page



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Plate	Offsets	(X,)	()	J3 U-	D-4,U	-2-0]

							-	_	-	-		
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0.30	Vert(LL)	-0 03	7-10	>999	240	MT20	244/190
TCDL	100	Lumber DOL	1 25	BC	0 37	Vert(CT)	-0 08	7-10	>999	180		
BCLL	00*	Rep Stress Incr	YES	WB	0 50	Horz(CT)	0 02	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS		1					Weight: 87 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied. REACTIONS (size)

1=0-3-8 5=0-3-8 Max Horiz 1=167 (LC 11) Max Uplift 5=-12 (LC 9)

Max Grav 1=621 (LC 1), 5=621 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=-995/81, 2-3=-494/96, 3-4=-89/91,

4-5=-132/52 BOT CHORD

1-7=-193/853, 6-7=-193/853, 5-6=-123/382

2 7=0/239, 2-6=-547/79, 3-6=0/398,

3-5=-587/102

WEBS NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf; BCDL=6.0psf, h=15ft; B=45ft; L=24ft; eave=4ft, Cat. II, Exp B, Enclosed, MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 11-0-0, Zone3 11-0-0 to 15-6-4 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=160
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint
- 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.

LOAD CASE(S) Standard

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917 Date:



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Page 1

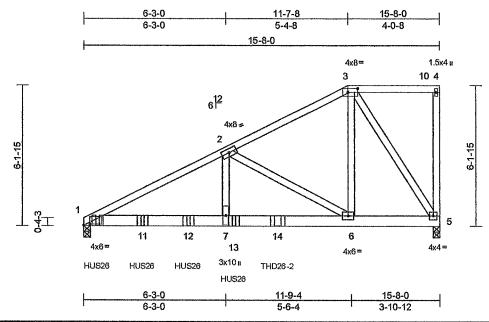


Plate Offsets (X, Y	[1:0-3-4,0-0-9]	[3:0-5-4,0-2-0]
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			**************************************							-		
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(lac)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 64	Vert(LL)	-0.09	7-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0 57	Vert(CT)	-0.18	7-9	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.03	5	n/a	n/a		
BCDL	100	Code	FBC2023/TPl2014	Matrix-MS		` ′					Weight: 302 lb	FT = 20%

LUMBER

Scale = 1:50.5

TOP CHORD 2x4 SP No 2 **BOT CHORD** 2x6 SP 2400F 2.0E 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end vertical **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

1=0-3-8, 5=0-3-8 Max Horiz 1=175 (LC 5)

Max Grav 1=6194 (LC 1), 5=3591 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=-9416/0, 2-3=-2741/0, 3-4=-64/53,

4-5=-119/23

BOT CHORD 1-7=0/8289, 6-7=0/8289, 5-6=0/2488 WEBS

2-7=0/5794, 2-6=-6776/0, 3-6=0/4622,

3-5=-4438/0

NOTES

1) 3-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

Bottom chords connected as follows. 2x6 - 3 rows staggered at 0-4-0 oc.

- Web connected as follows. 2x4 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated
- Unbalanced roof live loads have been considered for this design.

- Wind ASCE 7-22 Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf; BCDL=6.0psf, h=15ft, B=45ft; L=24ft, eave=4ft, Cat. II, Exp B, Enclosed, MWFRS (directional), cantilever left and right exposed, end vertical 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Use MiTek HUS26 (With 14-16d nalls into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-7-4 from the left end to 6-7-4 to connect truss(es) to front face of bottom chord.
- 10) Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 8-6-8 from the left end to connect truss(es) to front face of bottom
- 11) Fill all nail holes where hanger is in contact with lumber LOAD CASE(S) Standard
- Dead + Roof Live (balanced) Lumber Increase=1.25, Plate Increase=1 25 Uniform Loads (lb/ft)

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

Concentrated Loads (lb)

Vert: 9=-1382 (F), 11=-1378 (F), 12=-1378 (F), 13=-1378 (F), 14=-3028 (F)



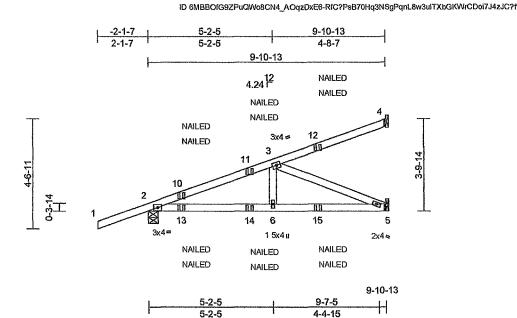
Joaquin Velez PE No.68182 MiTek Inc DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd Chesterfield, MO 63017



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	1/defI	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 45	Vert(LL)	-0.04	6-9	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 45	Vert(CT)	-0 07	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 44 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purtins.

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

bracing.

REACTIONS (size) 2=0-4-15, 4= Mechanical, 5=

Mechanical

Max Horiz 2=143 (LC 8)

2=-153 (LC 8), 4=-59 (LC 8), 5=-27 Max Uplift

2=527 (LC 13), 4=147 (LC 13), Max Grav

5=369 (LC 13)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/42, 2-3=-867/73, 3-4=-96/41 BOT CHORD 2-6=-146/798, 5-6=-146/798

3-6=0/255, 3-5=-855/157 WEBS

NOTES

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft, L=24ft; eave=4ft; Cat. II, Exp B, Partially Enclosed; MWFRS (directional), cantilever left and right exposed, end vertical left and right exposed, Lumber DOL=1 60 plate grip DOL=1 60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20 Opsf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 4, 153 lb uplift at joint 2 and 27 lb uplift at joint 5
- "NAILED" indicates 3-10d (0 148"x3") or 2-12d (0 148"x3 25") toe-nails per NDS guidlines
- 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 (lb/ft)

Vert: 1-4=-60, 5-7=-20

Concentrated Loads (lb)

Vert: 10=57 (F=29, B=29), 12=-82 (F=-41 B=-41), 13=61 (F=31, B=31), 14=-7 (F=-3, B=-3), 15=-59

(F=-30, B=-30)

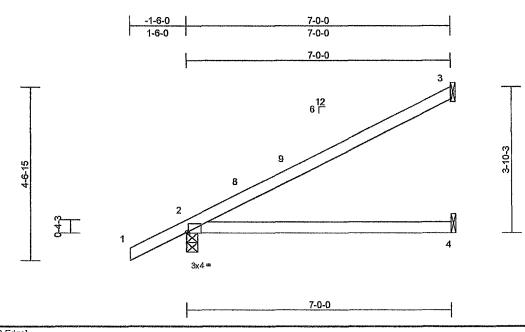


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Plate Offsets (X, Y) [2 0-0-8,Edg	eJ
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	Пq	PLATES	GRIP
TCLL (roof)	200	Plate Grip DOL	1 25	TC	0 60	Vert(LL)	0 10	4-7	>821	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 50	Vert(CT)	-0.21	4-7	>398	180		
BCLL	0.0*	Rep Stress incr	YES	WB	0 00	Horz(CT)	0 00	3	n/a	n/a		
BCDL	100	Code	FBC2023/TPI2014	Matrix-AS							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 BOT CHORD Rigid ceiling directly applied

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical

Max Horiz 2=143 (LC 12)

Max Uplift 2=-45 (LC 12), 3=-79 (LC 12)

Max Grav 2=377 (LC 1), 3=205 (LC 17),

4=124 (LC 3)
(lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/40, 2-3=-153/77

OF CHORD 1-2=0/40, 2-3=-103//

BOT CHORD 2-4=-52/103

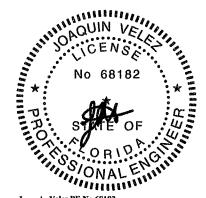
NOTES

FORCES

- Wind ASCE 7-22; Vult=130mph (3-second gust)
 Vasd=101mph, TCDL=6.0psf, BCDL=6.0psf; h=15ft,
 B=45ft; L=24ft, eave=4ft; Cat. II, Exp B, Partially
 Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to
 1-6-0, Zone1 1-6-0 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
- Building Designer I 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.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 3 and 45 lb uplift at joint 2.

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

LOAD CASE(S) Standard



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

May 23,2025

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

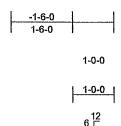
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or other 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

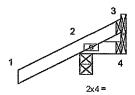


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Page 1









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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defi	Ľ⁄d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 15	Vert(LL)	0.00	` <i>7</i>	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1 25	BC	0 03	Vert(CT)	0.00	7	>999	180		
BCLL	00*	Rep Stress Incr	YES	WB	0 00	Horz(CT)	0.00	4	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)

2=0-3-8, 3= Mechanical, 4= Mechanical

Max Horiz 2=44 (LC 12)

Max Uplift 2=-74 (LC 12), 3=-7 (LC 1), 4=-22

(LC 1)

2=198 (LC 1), 3=8 (LC 11), 4=20 Max Grav (lb) - Maximum Compression/Maximum

(LC 12)

Tension

TOP CHORD 1-2=0/40, 2-3=-72/48

BOT CHORD 2-4=-54/75

NOTES

FORCES

- Wind. ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf; BCDL=6.0psf; h=15ft, B=45ft; L=24ft; eave=4ft, Cat. II, Exp B, Partially Enclosed; MWFRS (directional) and C-C Zone3 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
- 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.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint

2, 22 lb uplift at joint 4 and 7 lb uplift at joint 3.

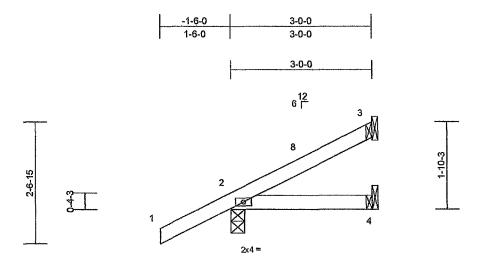
LOAD CASE(S) Standard



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

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Page. 1



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								-				
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defi	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0.15	Vert(LL)	0 00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1 25	BC	0.07	Vert(CT)	-0 01	4-7	>999	180		
BCLL	00*	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%

3-0-0

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)

2=0-3-8, 3= Mechanical 4=

Mechanical

Max Horiz 2=76 (LC 12) Max Uplift 2=-50 (LC 12), 3=-26 (LC 12)

Max Grav 2=230 (LC 1), 3=74 (LC 17), 4=50

(LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/40, 2-3=-108/36

BOT CHORD 2-4=-40/69

NOTES

- 1) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II, Exp B, Partially Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 2-11-4 zone, cantilever 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.

3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 3 and 50 lb uplift at joint 2

LOAD CASE(S) Standard

No 68182

No 68182

No 68182

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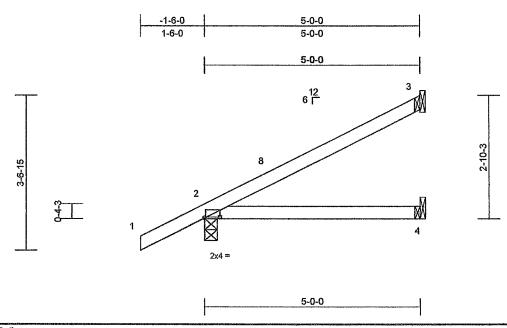
Jonquin Velez PE No.68182 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

May 23,2025

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Plate Offsets (Х, Ү	7)	[20	1-4-4,	0-0-4
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defi	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 28	Vert(LL)	0 03	4-7	>999	240	MT20	244/190
TCDL	100	Lumber DOL	1 25	BC	0 24	Vert(CT)	-0 05	4-7	>999	180		
BCLL	00*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS		` '					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

BOT CHORD Rigid ceiling directly applied. 2=0-3-8, 3= Mechanical, 4=

REACTIONS (size)

Mechanical Max Horiz 2=109 (LC 12)

Max Uplift 2=-46 (LC 12), 3=-53 (LC 12)

2=301 (LC 1), 3=140 (LC 17), 4=88

(LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

1 2=0/40, 2-3=-133/55 TOP CHORD

BOT CHORD 2-4=-34/68

NOTES

- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf, BCDL=6.0psf, h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II, Exp B, Partially Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-11-4 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 3 and 46 lb uplift at joint 2.

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.

LOAD CASE(S) Standard

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

May 23,2025

Marning - 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 properly damage. For general guidance regarding the



Jack-Open

11

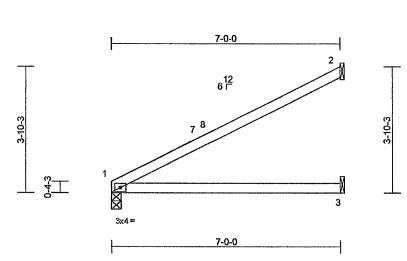
Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Thu May 22 15:56:20 ID eAdpAJFXo5iZufZ0qNSxrczDxE7-RiC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page. 1





Scale =	1	35.	4
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0.63	Vert(LL)	-0.09	3-6	>896	240	MT20	244/190
TCDL	10.0	Lumber DOL	1 25	BC	0.51	Vert(CT)	-0.22	3-6	>375	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0 00	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 22 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied **REACTIONS** (size) 1=0-3-8, 2= Mechanical, 3=

Mechanical Max Horiz 1=83 (LC 12)

Max Uplift 2=-47 (LC 12)

Max Grav 1=278 (LC 1), 2=191 (LC 1), 3=126

(LC 3)

FORCES

(lb) - Maximum Compression/Maximum

Tension
TOP CHORD 1-2=-115/68

BOT CHORD 1-3=-75/108

NOTES

- 1) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft, eave=4ft; Cat. II, Exp B, Enclosed, MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint

 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

LOAD CASE(S) Standard

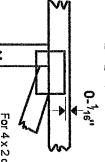
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Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- ¹/48¹ from outside edge of truss

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

* Plate location details available in MiTek software or upon request

PLATE SIZE



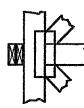
The first dimension is the plate width measured perpendicular to slots Second dimension is the length parallel to slots

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

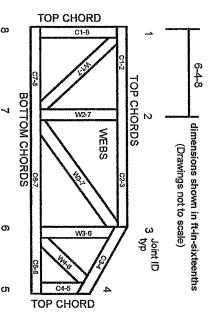
industry Standards:

ANSI/TPI1

DSB-22

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing 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/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 1/2/2023

stem

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other
- 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
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber
- 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.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or after 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.
- Design assumes manufacture in accordance with ANS/ITPI 1 Quality Criteria
- 21 The design does not take into account any dynamic or other loads other than those expressly stated.