

RE: B220056 Lot 147 CB MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Customer: Project Name: B220056

Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2012/TPI2007 Design Program: MiTek 20/20 8.4

Wind Code: Wind Speed: 115 mph Roof Load: 45.0 psf Floor Load: N/A psf

This package includes 29 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	150049365	A1	2/4/2022	21	150049385	J1	2/4/2022
2	150049366	A2	2/4/2022	22	150049386	J2	2/4/2022
3	150049367	A3	2/4/2022	23	150049387	V1	2/4/2022
4	150049368	A4	2/4/2022	24	150049388	V2	2/4/2022
5	150049369	A5	2/4/2022	25	150049389	V3	2/4/2022
6	150049370	A6	2/4/2022	26	150049390	V4	2/4/2022
7	150049371	A7	2/4/2022	27	150049391	V5	2/4/2022
8	150049372	A8	2/4/2022	28	150049392	V6	2/4/2022
9	150049373	A9	2/4/2022	29	150049393	V7	2/4/2022
10	150049374	A10	2/4/2022				
11	150049375	A11	2/4/2022				
12	150049376	A12	2/4/2022				
13	150049377	A13	2/4/2022				
14	150049378	A14	2/4/2022				
15	150049379	B1	2/4/2022				
16	150049380	C1	2/4/2022				

2/4/2022

2/4/2022

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2/4/2022

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision

D1

D2

E1

E2

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: 001193

150049381

150049382

150049383

150049384

17

18

19

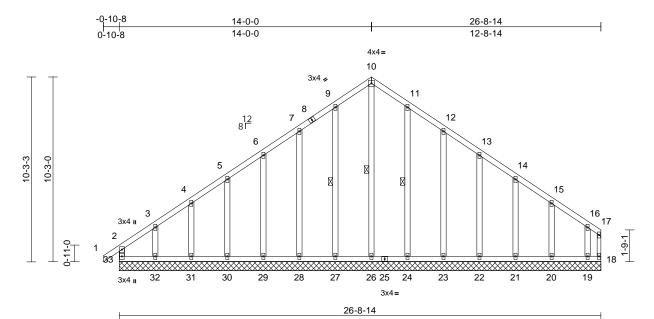
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IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.



Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	A1	Common Supported Gable	1	1	Job Reference (optional)	150049365

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Thu Feb 03 10:04:03 ID:ndaavQMNG9iZBi8toqa2fnzuPP9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	18	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-R							Weight: 150 lb	FT = 10%

LUMBER	
TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2

WEBS 2x4 SPF No.2 *Except* 17-18:2x3 SPF No.2 2x4 SPF No.2 OTHERS

BRACING TOP CHORD

BOT CHORD

Scale = 1:64

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 10-26, 9-27, 11-24

FORCES

REACTIONS (lb/size) 18=3/26-8-14, 19=140/26-8-14, 20=187/26-8-14. 21=178/26-8-14.

22=181/26-8-14, 23=179/26-8-14, 24=187/26-8-14, 26=164/26-8-14, 27=187/26-8-14. 28=179/26-8-14. 29=180/26-8-14, 30=179/26-8-14,

31=184/26-8-14, 32=163/26-8-14, 33=164/26-8-14

Max Horiz 33=291 (LC 5)

Max Uplift 18=-111 (LC 7), 19=-153 (LC 9),

20=-70 (LC 9), 21=-70 (LC 9), 22=-68 (LC 9), 23=-77 (LC 9), 24=-57 (LC 9), 26=-54 (LC 7),

27=-62 (LC 8), 28=-75 (LC 8), 29=-68 (LC 8), 30=-75 (LC 8), 31=-48 (LC 8), 32=-164 (LC 8),

33=-201 (LC 4)

18=127 (LC 9), 19=223 (LC 16), Max Grav 20=191 (LC 16), 21=186 (LC 16),

22=187 (LC 16), 23=188 (LC 16), 24=191 (LC 16), 26=332 (LC 9), 27=199 (LC 15), 28=184 (LC 15), 29=186 (LC 15), 30=191 (LC 15),

31=184 (LC 1), 32=267 (LC 15), 33=294 (LC 16)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

BOT CHORD

2-33=-242/168, 1-2=0/40, 2-3=-289/275 3-4=-234/229, 4-5=-224/232, 5-6=-202/232 6-7=-186/269, 7-9=-169/309, 9-10=-146/338, 10-11=-129/326, 11-12=-106/268,

12-13=-87/198, 13-14=-69/134 14-15=-52/96, 15-16=-49/58, 16-17=-84/50,

17-18=-79/52

32-33=-59/59, 31-32=-59/59, 30-31=-59/59, 29-30=-59/59, 28-29=-59/59, 27-28=-59/59, 26-27=-59/59, 24-26=-59/59, 23-24=-59/59, 22-23=-59/59, 21-22=-59/59, 20-21=-59/59,

19-20=-59/59, 18-19=-59/59

10-26=-308/94, 9-27=-159/86, 7-28=-144/99, 6-29=-147/92, 5-30=-149/97, 4-31=-144/83, 3-32=-185/144, 11-24=-151/81,

12-23=-147/101, 13-22=-147/93 14-21=-146/93, 15-20=-152/97,

16-19=-147/122

NOTES

WFBS

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOI = 1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely 6) braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 201 lb uplift at joint 33, 111 lb uplift at joint 18, 54 lb uplift at joint 26, 62 Ib uplift at joint 27, 75 lb uplift at joint 28, 68 lb uplift at joint 29, 75 lb uplift at joint 30, 48 lb uplift at joint 31, 164 Ib uplift at joint 32, 57 lb uplift at joint 24, 77 lb uplift at joint 23, 68 lb uplift at joint 22, 70 lb uplift at joint 21, 70 Ib uplift at joint 20 and 153 lb uplift at joint 19.

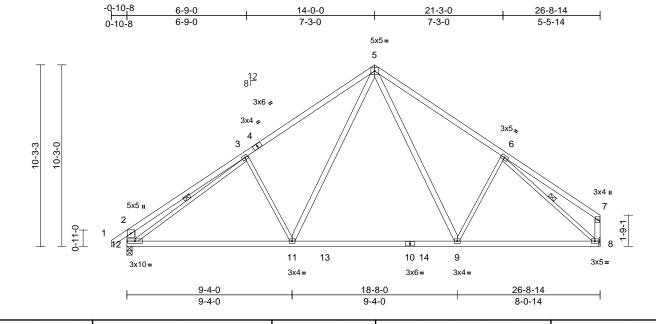


February 4,2022



Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	A2	Common	2	1	Job Reference (optional)	150049366

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Thu Feb 03 10:04:05 ID:4zVDNqSmclaaXnBDioChSFzuPP2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



BCDL LUMBER

Scale = 1:65.1 Loading

TCLL (roof)

TCDI

BCLL

TOP CHORD 2x4 SPF No.2 2x4 SPF 2100F 1.8E **BOT CHORD**

2x3 SPF No.2 *Except* 11-5,9-5,8-7:2x4 SPF WEBS

(psf)

25.0

10.0

10.0

0.0*

No.2, 12-2:2x6 SPF No.2

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

2-0-0

1.15

1 15

YES

IRC2012/TPI2007

bracing.

WEBS 1 Row at midpt 3-12, 6-8 REACTIONS (lb/size) 8=1185/ Mechanical, 12=1265/0-3-8

Max Horiz 12=292 (LC 5)

Max Uplift 8=-128 (LC 9), 12=-161 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/43, 2-3=-593/218, 3-5=-1394/291,

5-6=-1306/272, 6-7=-178/73, 2-12=-556/215,

7-8=-198/81

11-12=-227/1338, 9-11=-17/868, **BOT CHORD**

8-9=-103/1041

3-11=-378/302. 5-11=-165/691.

5-9=-143/526, 6-9=-242/271, 3-12=-1085/52,

6-8=-1329/124

NOTES

WEBS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

DEFL

Vert(LL)

Vert(TL)

Horiz(TL)

Wind(LL)

0.71

0.46

0.66

I/defI

>999

>676

>999

(loc)

9-11

9-11

9-11

8

-0.30

-0.47

0.04

0.04

L/d

360

240

n/a n/a

240

PLATES

Weight: 117 lb

MT20

GRIP

197/144

FT = 10%

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

CSI

TC

BC

WB

Matrix-S

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at joint 12 and 128 lb uplift at joint 8.

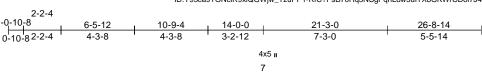
LOAD CASE(S) Standard

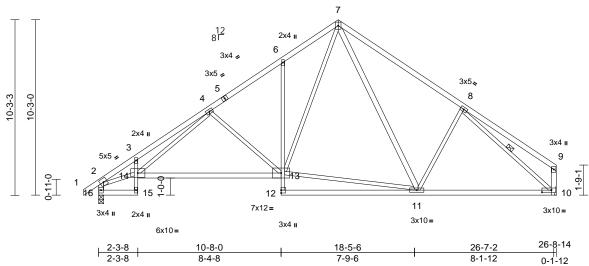




Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	A3	Roof Special	4	1	Job Reference (optional)	150049367

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Thu Feb 03 10:04:06 ID:Y93ca9TONciR9xIQGWjw_TzuPP1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:67.3

Plate Offsets (X, Y): [10:0-6-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.18	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(TL)	-0.51	13-14	>619	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.67	Horiz(TL)	0.15	10	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		Wind(LL)	0.09	13-14	>999	240	Weight: 125 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 15-3,6-12:2x3 SPF BOT CHORD

No.2. 14-13:2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 11-7,16-2,10-9:2x4

SPF No 2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals.

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

bracing, Except:

6-0-0 oc bracing: 11-12. 1 Row at midpt 8-10

WEBS REACTIONS (lb/size) 10=1189/ Mechanical,

16=1263/0-3-8

Max Horiz 16=291 (LC 5)

Max Uplift 10=-128 (LC 9), 16=-160 (LC 8)

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

TOP CHORD 1-2=0/40, 2-3=-2454/393, 3-4=-2554/512, 4-6=-1454/233, 6-7=-1392/347,

7-8=-1303/270, 8-9=-193/71,

2-16=-1242/197, 9-10=-206/80

15-16=-97/130, 14-15=-33/68,

3-14=-242/158, 13-14=-269/1493,

12-13=0/132, 6-13=-240/167, 11-12=-20/18,

10-11=-103/1047

WEBS 4-13=-483/232, 4-14=-255/998, 11-13=0/834,

7-13=-251/873, 7-11=-154/353, 8-11=-251/270, 2-14=-377/1990

8-10=-1336/128

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 160 lb uplift at joint 16 and 128 lb uplift at joint 10.

LOAD CASE(S) Standard



Page: 1

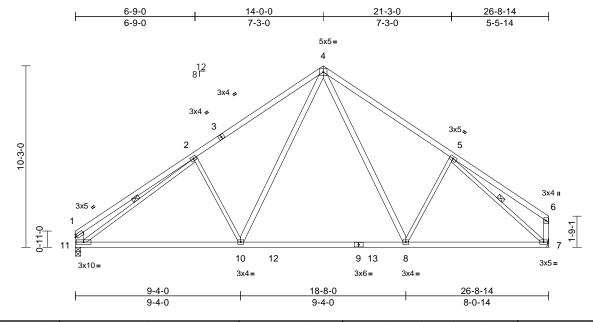
February 4,2022



Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	A4	Common	1	1	Job Reference (optional)	150049368

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:06

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Scale = 1:65.1

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.30	8-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(TL)	-0.47	8-10	>674	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horiz(TL)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		Wind(LL)	0.04	8-10	>999	240	Weight: 115 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF 2100F 1.8E

2x3 SPF No.2 *Except* 10-4,8-4,7-6:2x4 SPF WEBS

No.2, 11-1:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midpt 2-11, 5-7 REACTIONS (lb/size) 7=1186/ Mechanical, 11=1186/0-3-8

Max Horiz 11=279 (LC 5)

Max Uplift 7=-128 (LC 9), 11=-136 (LC 8)

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

Tension

TOP CHORD 1-2=-493/147, 2-4=-1402/293,

4-5=-1308/272, 5-6=-178/73, 1-11=-409/144,

6-7=-197/81

10-11=-230/1348, 8-10=-17/869, **BOT CHORD**

7-8=-103/1043

2-10=-389/306, 4-10=-168/701,

4-8=-144/526, 5-8=-243/271, 2-11=-1171/96,

5-7=-1332/125

NOTES

WEBS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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, 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 136 lb uplift at joint 11 and 128 lb uplift at joint 7.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	A5	Roof Special Girder	1	1	Job Reference (optional)	150049369

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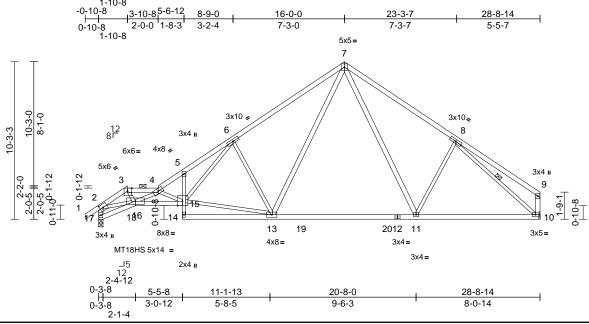


Plate Offsets (X, Y): [2:0-2-9,0-2-8], [3:0-3-6,Edge], [15:0-3-12,Edge]

				_								
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.32	11-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(TL)	-0.63	11-13	>546	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.73	Horiz(TL)	0.17	10	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		Wind(LL)	0.14	14	>999	240	Weight: 131 lb	FT = 10%

LUMBER

Scale = 1:75

TOP CHORD 2x4 SPF No.2

2x4 SPF 2100F 1.8E *Except* 17-16:2x4 BOT CHORD

SPF No.2. 5-14:2x3 SPF No.2

2x3 SPF No.2 *Except* WEBS 13-7,11-7,17-2,10-9:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins

(3-4-2 max.): 3-4.

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

bracing, Except:

8-8-14 oc bracing: 15-16. 8-10 1 Row at midpt

WEBS REACTIONS (lb/size) 10=1279/ Mechanical,

17=1353/0-3-8

Max Horiz 17=292 (LC 5)

Max Uplift 10=-135 (LC 9), 17=-200 (LC 8)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD

1-2=0/40, 2-3=-2513/461, 3-4=-2761/514,

4-5=-3197/461, 5-6=-3056/479,

6-7=-1671/333, 7-8=-1432/280, 8-9=-180/75,

2-17=-1346/275, 9-10=-199/82

BOT CHORD 16-17=-294/355, 15-16=-820/4415

14-15=0/81, 5-15=0/68, 13-14=-41/242, 11-13=-34/975, 10-11=-109/1141

3-16=-228/1424, 4-16=-1864/239, 4-15=-1989/419, 13-15=-248/1592,

6-15=-254/1455, 6-13=-921/366,

7-13=-208/945, 7-11=-137/508,

2-16=-329/1937, 8-10=-1463/131,

8-11=-228/270

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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.
- Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 200 lb uplift at joint 17 and 135 lb uplift at joint 10.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 41 lb down and 18 lb up at 1-10-8 on top chord, and 8 lb down and 17 lb up at 1-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) 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=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-7=-70, 7-9=-70, 16-17=-20, 15-16=-20, 10-14=-20



February 4,2022



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

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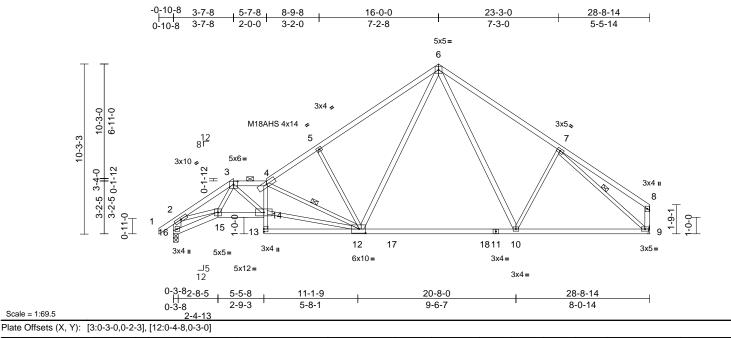
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	A6	Roof Special	1	1	Job Reference (optional)	150049370

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:07 ID:zklkDBVHgX400OU_xeHdc5zuPP_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



BCDL

Loading

TCDL

BCLL

TCLL (roof)

LUMBER TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 4-13:2x3 SPF No.2, BOT CHORD

(psf)

25.0

10.0

0.0

10.0

13-11 11-9:2x4 SPF 2100F 1 8F

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

2-0-0

1.15

1.15

YES

IRC2012/TPI2007

2x3 SPF No.2 *Except* 12-6,10-6,9-8:2x4 WEBS

SPF No.2, 16-2:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins

(3-4-13 max.): 3-4.

BOT CHORD Rigid ceiling directly applied or 9-3-8 oc

bracing. **WEBS**

1 Row at midpt 4-12, 7-9 REACTIONS (lb/size) 9=1275/ Mechanical,

16=1355/0-3-8

Max Horiz 16=292 (LC 5) Max Uplift 9=-133 (LC 9), 16=-184 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/43, 2-3=-2531/420, 3-4=-2739/406,

4-5=-1743/243, 5-6=-1680/332, 6-7=-1427/277, 7-8=-179/75,

2-16=-1362/280, 8-9=-198/82 BOT CHORD 15-16=-313/368, 14-15=-406/2029,

13-14=0/77, 4-14=-411/95, 12-13=-38/230.

10-12=-32/964, 9-10=-107/1137 **WEBS** 3-15=-84/421, 3-14=-84/1177,

12-14=-422/2589, 4-12=-1411/237,

5-12=-430/280, 6-12=-207/934,

6-10=-135/514, 2-15=-238/1927,

7-9=-1459/128, 7-10=-229/270

NOTES

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

DEFL

Vert(LL)

Vert(TL)

Horiz(TL)

Wind(LL)

0.82

0.63

0.86

in

-0.32

-0.62

0.15

0.11

(loc)

10-12

10-12

9

4

I/defI

>999

>551

>999

n/a n/a

L/d

360

240

240

PLATES

M18AHS

Weight: 133 lb

MT20

GRIP

197/144

142/136

FT = 10%

CSI

TC

BC

WB

Matrix-S

- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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.
- Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 16 and 133 lb uplift at joint 9.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 4,2022



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Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	A7	Roof Special	1	1	Job Reference (optional)	150049371

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Thu Feb 03 10:04:07 ID:Rwl6QXWvRrCsdY3BVMos9JzuPOz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

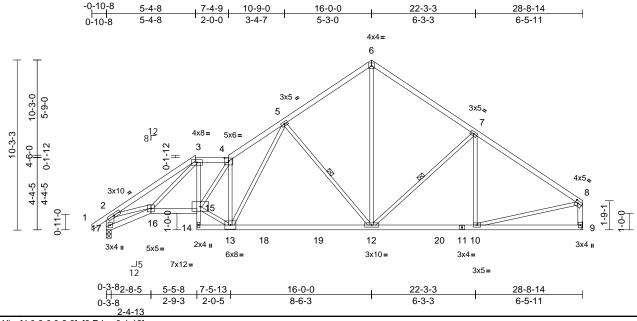


Plate Offsets (X, Y): [4:0-3-0,0-2-3], [8:Edge,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.19	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(TL)	-0.47	12-13	>730	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.69	Horiz(TL)	0.12	9	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		Wind(LL)	0.09	12-13	>999	240	Weight: 128 lb	FT = 10%

LUMBER

Scale = 1:69.5

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 3-14:2x3 SPF No.2 2x3 SPF No.2 *Except* 17-2:2x6 SPF No.2, WEBS

9-8:2x4 SPF No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or 3-3-12 oc purlins, except end verticals, and

2-0-0 oc purlins (4-4-3 max.): 3-4.

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

bracing, Except:

9-9-9 oc bracing: 16-17

6-0-0 oc bracing: 14-15.

WEBS 1 Row at midpt 5-12, 7-12

REACTIONS (lb/size)

9=1275/ Mechanical, 17=1355/0-3-8

Max Horiz 17=292 (LC 5)

Max Uplift 9=-133 (LC 9), 17=-184 (LC 8)

FORCES

TOP CHORD

(lb) - Maximum Compression/Maximum Tension

1-2=0/43, 2-3=-2439/409, 3-4=-1787/319, 4-5=-2021/329, 5-6=-1212/243,

6-7=-1242/256, 7-8=-1486/176,

2-17=-1405/321, 8-9=-1212/166

BOT CHORD 16-17=-366/503, 15-16=-334/1912,

14-15=-107/0, 3-15=-61/1029, 13-14=-22/47,

12-13=-185/1394, 10-12=-71/1147,

9-10=-43/104

3-16=-110/318, 13-15=-271/2051,

4-15=-199/228, 4-13=-1532/362, 5-13=-127/754, 5-12=-676/266,

6-12=-149/873, 7-12=-389/220,

7-10=-136/91, 2-16=-92/1683, 8-10=-61/1073

NOTES

WEBS

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

- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 17 and 133 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or

LOAD CASE(S) Standard







Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	A8	Roof Special	1	1	Job Reference (optional)	150049372

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:07 ID:v7sUetWXC8KjFieN33J5hWzuPOy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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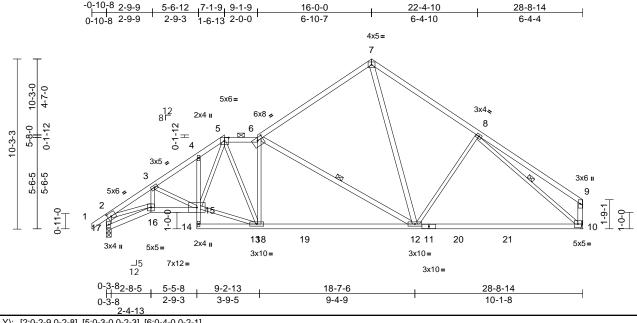


Plate Offsets (X, Y): [2:0-2-9,0-2-8], [5:0-3-0,0-2-3], [6:0-4-0,0-2-1]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.20	10-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(TL)	-0.48	10-12	>716	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.86	Horiz(TL)	0.12	10	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		Wind(LL)	0.07	12-13	>999	240	Weight: 135 lb	FT = 10%

LUMBER

Scale = 1:69.5

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 4-14:2x3 SPF No.2, BOT CHORD

14-11,11-10:2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 12-6,12-7,17-2,10-9:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and

2-0-0 oc purlins (4-5-14 max.): 5-6.

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc

bracing. **WEBS**

1 Row at midpt 6-12, 8-10

REACTIONS (lb/size) 10=1279/ Mechanical,

17=1353/0-3-8 Max Horiz 17=292 (LC 5)

Max Uplift 10=-133 (LC 9), 17=-183 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=0/40, 2-3=-2562/440, 3-4=-2069/329,

4-5=-2016/390, 5-6=-1514/255, 6-7=-1112/234, 7-8=-1357/249,

8-9=-327/107, 2-17=-1354/268,

9-10=-318/120

BOT CHORD 16-17=-296/364, 15-16=-468/2204,

14-15=-10/9, 4-15=-113/100, 13-14=-22/57, 12-13=-222/1574, 10-12=-91/1126

3-16=-72/384, 3-15=-479/181, 13-15=-208/1486, 5-15=-244/836

5-13=-91/386, 6-13=-523/156,

6-12=-843/261, 7-12=-123/853 8-12=-258/267, 2-16=-292/1941,

8-10=-1344/126

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- The Fabrication Tolerance at joint 6 = 6%
- The solid section of the plate is required to be placed over the splice line at joint(s) 11.
- Plate(s) at joint(s) 11 checked for a plus or minus 5 degree rotation about its center.
- 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.
- 10) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 17 and 133 lb uplift at joint 10.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 4,2022



Job	Truss Truss Type Qty Ply Lot 147 CB		Lot 147 CB			
B220056	A9	Roof Special	1	1	Job Reference (optional)	150049373

16-0-0

Wheeler Lumber, Waverly, KS - 66871,

-0-10-8 2-9-9

5-4-8

7-4-8

11-10-12

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Thu Feb 03 10:04:08 ID:Fp8y6mN?1SqQpsj3MY5HC_zuPP8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

23-1-0

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30-3-8

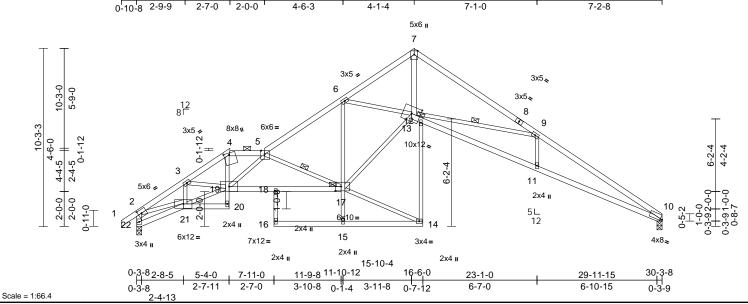


Plate Offsets (X, Y): [2:0-2-9,0-2-8], [4:0-1-4,0-3-12], [5:0-2-10,Edge], [10:0-1-5,0-0-15], [13:0-6-0,0-4-12], [17:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.40	11-12	>892	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(TL)	-0.99	11-12	>365	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.95	Horiz(TL)	0.88	10	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		Wind(LL)	0.26	11-12	>999	240	Weight: 135 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 7-8:2x4 SPF 2100F

1.8E, 8-10:2x4 SPF 2400F 2.0E

2x4 SPF No.2 *Except* 20-4,18-16,14-12:2x3 BOT CHORD

SPF No.2, 19-17.13-10:2x4 SPF 2100F 1.8E **WEBS**

2x3 SPF No.2 *Except* 22-2,13-7:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins

(3-6-5 max.): 4-5.

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

WEBS 1 Row at midpt

5-17, 9-13

JOINTS 1 Brace at Jt(s): 17, 13

REACTIONS (lb/size) 10=1349/0-3-8, 22=1423/0-3-8

Max Horiz 22=-273 (LC 6)

Max Uplift 10=-149 (LC 9), 22=-188 (LC 8)

FORCES

(lb) - Maximum Compression/Maximum

Tension

1-2=0/40, 2-3=-2696/449, 3-4=-3313/527, TOP CHORD

4-5=-2691/451, 5-6=-2347/315,

6-7=-3441/333. 7-9=-3361/331.

9-10=-4728/339, 2-22=-1427/274

BOT CHORD 21-22=-271/374, 20-21=-42/103, 19-20=0/68,

4-19=-227/1592, 18-19=-557/3440,

17-18=-549/3418, 16-18=0/46, 15-16=-8/22,

14-15=-5/28, 12-14=0/73, 12-13=-204/4148,

11-12=-243/4125, 10-11=-237/4143 3-21=-543/110, 19-21=-479/2285,

WEBS 3-19=0/556, 5-19=-1053/158,

5-17=-1719/391, 9-13=-1238/546,

9-11=0/339, 2-21=-294/2024, 6-13=0/911, 15-17=0/226, 6-17=-1121/123,

13-17=-294/2752, 7-13=-266/3284,

14-17=-31/3

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearing at joint(s) 22, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 22 and 149 lb uplift at joint 10.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 4,2022

NOTES

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Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	A10	Roof Special	1	1	Job Reference (optional)	150049374

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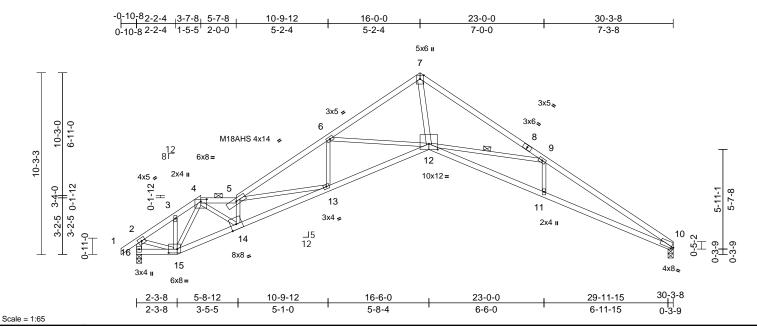


Plate Offsets (X, Y): [4:0-4-0,0-1-9], [10:0-1-5,0-0-15], [12:0-6-0,0-3-13], [15:0-5-12,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.40	11-12	>911	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(TL)	-0.91	11-12	>397	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horiz(TL)	0.82	10	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		Wind(LL)	0.26	12-13	>999	240	Weight: 111 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 7-8:2x4 SPF 2100F

1.8E, 8-10:2x4 SPF 2400F 2.0E

2x4 SPF 2100F 1.8E *Except* 16-15:2x4 BOT CHORD SPF No 2

WEBS 2x3 SPF No.2 *Except* 12-7,16-2:2x4 SPF

No.2

BRACING TOP CHORD

WEBS

Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins

(2-9-9 max.): 4-5.

BOT CHORD Rigid ceiling directly applied or 9-5-5 oc

bracing.

9-12 1 Row at midpt

REACTIONS (lb/size) 10=1349/0-3-8, 16=1423/0-3-8

Max Horiz 16=-272 (LC 6) Max Uplift 10=-149 (LC 9), 16=-188 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/40, 2-3=-1551/198, 3-4=-1492/248,

4-5=-4024/602, 5-6=-3995/518, 6-7=-2955/274, 7-9=-3455/328,

9-10=-4706/343, 2-16=-1396/200 BOT CHORD

15-16=-237/289, 14-15=-377/1873

13-14=-698/4199, 12-13=-461/3546

11-12=-242/4114, 10-11=-240/4122

3-15=-63/76, 4-15=-1110/143,

4-14=-391/2822, 5-14=-2500/413,

5-13=-628/224, 6-13=0/365, 6-12=-927/361, 7-12=-217/3049, 9-12=-1132/528,

9-11=0/306, 2-15=-121/1230

NOTES

WEBS

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

- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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.
- Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 16 and 149 lb uplift at joint 10.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	A11	Roof Special Girder	1	1	Job Reference (optional)	150049375

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Thu Feb 03 10:04:09 ID:cmxrAUR8s?Sjvdc195hSv2zuPP3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

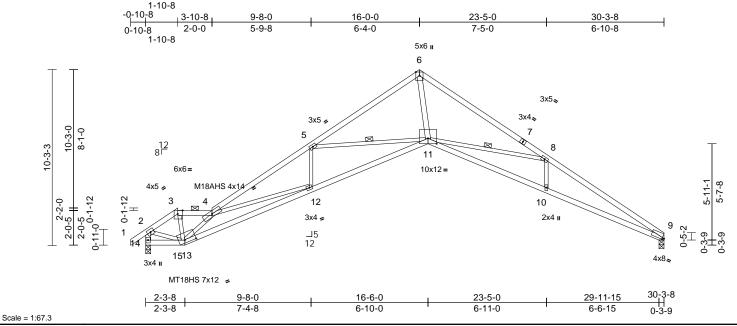


Plate Offsets (X, Y): [3:0-3-6,Edge], [9:0-1-5,0-0-15], [11:0-6-0,0-3-13], [13:0-7-12,0-2-0]

-												
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.39	11-12	>934	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(TL)	-0.90	10-11	>398	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	NO	WB	0.77	Horiz(TL)	0.79	9	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		Wind(LL)	0.27	11-12	>999	240	Weight: 109 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 4-6:2x4 SPF 2100F 1.8E, 6-7,7-9:2x4 SPF 2400F 2.0E

2x4 SPF 2100F 1.8E *Except* 14-13:2x4 BOT CHORD

SPF No 2

WEBS 2x3 SPF No.2 *Except* 11-6,14-2:2x4 SPF

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins (4-9-13 max.): 3-4.

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

bracing, Except: 8-9-8 oc bracing: 12-13.

WEBS 1 Row at midpt 5-11, 8-11

9=1349/0-3-8, 14=1423/0-3-8 REACTIONS (lb/size) Max Horiz 14=-272 (LC 6)

Max Uplift 9=-151 (LC 9), 14=-205 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/40, 2-3=-1602/204, 3-4=-1481/203, TOP CHORD

4-5=-4235/566, 5-6=-3000/272, 6-8=-3473/332, 8-9=-4742/361,

2-14=-1386/199

BOT CHORD 13-14=-243/286, 12-13=-798/4174,

11-12=-553/3764, 10-11=-251/4152,

9-10=-246/4154

3-13=-71/735, 4-13=-3529/620, **WEBS**

4-12=-431/238, 5-12=0/354, 5-11=-1117/431,

6-11=-195/3007, 8-11=-1167/555,

8-10=0/301, 2-13=-128/1297

NOTES

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

- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 13 = 2%
- 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.
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 14 and 151 lb uplift at joint 9.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 41 lb down and 18 lb up at 1-10-8 on top chord, and 7 lb down and 16 lb up at 1-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) 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=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-6=-70, 6-9=-70, 13-14=-20, 11-13=-20, 9-11=-20



February 4,2022



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss Truss Type Qty Ply Lot 147 CB		Lot 147 CB			
B220056	A12	Scissor	1	1	Job Reference (optional)	150049376

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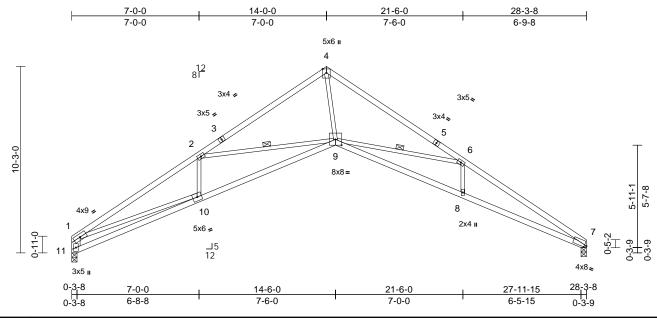


Plate Offsets (X, Y): [7:0-1-5,0-1-3], [9:0-4-0,0-3-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.33	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(TL)	-0.82	9-10	>411	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horiz(TL)	0.75	7	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		Wind(LL)	0.21	9-10	>999	240	Weight: 99 lb	FT = 10%

LUMBER

Scale = 1:63.3

TOP CHORD 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except* 9-7:2x4 SPF 2100F

1.8E

WEBS 2x3 SPF No.2 *Except* 11-1:2x6 SPF No.2

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.

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

bracing, Except:

8-2-15 oc bracing: 9-10. 1 Row at midpt 2-9, 6-9

REACTIONS (lb/size) 7=1256/0-3-8, 11=1256/0-3-8

Max Horiz 11=-267 (LC 6)

Max Uplift 7=-143 (LC 9), 11=-141 (LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-3431/477, 2-4=-2674/223,

4-6=-3069/279, 6-7=-4363/335,

1-11=-1345/271

BOT CHORD 10-11=-276/641, 9-10=-502/3044,

8-9=-207/3818, 7-8=-204/3818 2-10=-131/127, 2-9=-778/420, WEBS

4-9=-128/2562, 6-9=-1195/563, 6-8=0/299,

1-10=-219/2462

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOI = 1.60
- 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.
- Bearing at joint(s) 11, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 11 and 143 lb uplift at joint 7.

LOAD CASE(S) Standard





J	ob	Truss	Truss Type	Qty	Ply	Lot 147 CB	
В	3220056	A13	Scissor	7	1	Job Reference (optional)	150049377

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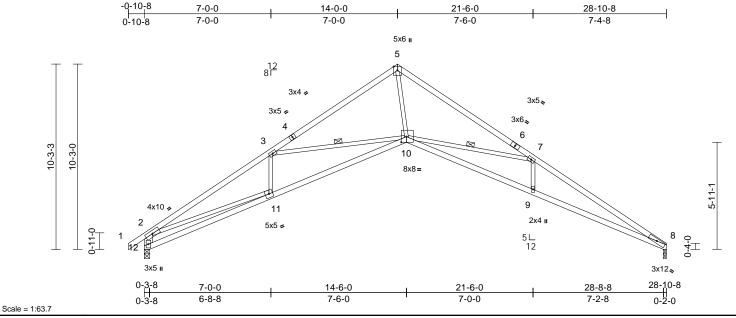


Plate Offsets (X, Y): [10:0-3-8,0-3-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.38	9-10	>892	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(TL)	-0.91	10-11	>378	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horiz(TL)	0.85	8	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		Wind(LL)	0.23	9-10	>999	240	Weight: 102 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 6-8:2x4 SPF

2400F 2.0E, 1-4:2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 10-8:2x4 SPF 2100F

1 8F

WEBS 2x3 SPF No.2 *Except* 12-2:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-5-2 oc

bracing.

WEBS 1 Row at midpt 3-10, 7-10

REACTIONS (lb/size) 8=1284/0-2-0. 12=1364/0-3-8

Max Horiz 12=-277 (LC 6)

Max Uplift 8=-151 (LC 9), 12=-168 (LC 8) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/43, 2-3=-3504/468, 3-5=-2781/219,

5-7=-3201/276, 7-8=-4728/365,

2-12=-1505/331

BOT CHORD 11-12=-352/788, 10-11=-481/3089,

9-10=-229/4183, 8-9=-227/4187 WEBS 3-11=-123/128, 3-10=-739/408,

5-10=-121/2693, 7-10=-1409/598, 7-9=0/314,

2-11=-118/2379

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOI = 1.60
- 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.
- Bearing at joint(s) 8, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 8 and 168 lb uplift at joint 12.

LOAD CASE(S) Standard







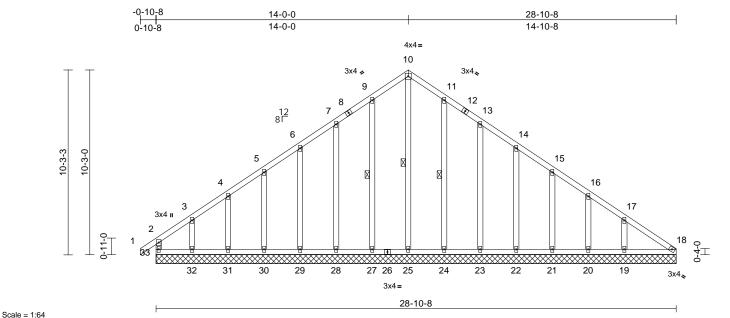
Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	A14	Common Supported Gable	1	1	Job Reference (optional)	150049378

LUMBER

FORCES

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		·	-								i	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.01	18	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S							Weight: 154 lb	FT = 10%

LOINDLIN		
TOP CHORD	2x4 SPF I	No.2
BOT CHORD	2x4 SPF I	No.2
WEBS	2x4 SPF I	No.2
OTHERS	2x4 SPF I	No.2
BRACING		
TOP CHORD		I wood sheathing directly applied or ourlins, except end verticals.
BOT CHORD	Rigid ceili bracing.	ing directly applied or 10-0-0 oc
WEBS	1 Row at	midpt 10-25, 9-27, 11-24
REACTIONS	(lb/size) Max Horiz Max Uplift	- (/
	Max Grav	28=-75 (LC 8), 29=-68 (LC 8), 30=-75 (LC 8), 31=-49 (LC 8), 32=-158 (LC 8), 33=-77 (LC 4) 18=148 (LC 15), 19=270 (LC 16), 20=160 (LC 16), 21=193 (LC 16), 22=186 (LC 16), 23=186 (LC 16), 24=195 (LC 16), 25=241 (LC 8), 27=195 (LC 15), 30=189 (LC 15), 29=186 (LC 15), 30=189 (LC 15),

33=213 (LC 16) (lb) - Maximum Compression/Maximum Tension

31=185 (LC 1), 32=225 (LC 15),

- TOP CHORD 2-33=-175/67, 1-2=0/40, 2-3=-184/151, 3-4=-117/108, 4-5=-107/101, 5-6=-92/138, 6-7=-79/175, 7-9=-65/214, 9-10=-54/245, 10-11=-67/251, 11-13=-80/220, 13-14=-94/181, 14-15=-108/145 15-16=-122/121, 16-17=-141/127, 17-18=-194/173 **BOT CHORD**
 - 32-33=-139/187, 31-32=-139/187, 30-31=-139/187, 29-30=-139/187, 28-29=-139/187, 27-28=-139/187, 25-27=-139/187, 24-25=-139/187, 23-24=-139/187, 22-23=-139/187, 21-22=-139/187, 20-21=-139/187, 19-20=-139/187, 18-19=-139/187 10-25=-217/0, 9-27=-155/86, 7-28=-146/99,
- **WEBS** 6-29=-147/92, 5-30=-148/96, 4-31=-144/83, 3-32=-162/141, 11-24=-155/86, 13-23=-146/99, 14-22=-146/92, 15-21=-151/97, 16-20=-129/83, 17-19=-205/134

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc. 6)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 77 lb uplift at joint 33, 43 lb uplift at joint 18, 62 lb uplift at joint 27, 75 lb uplift at joint 28, 68 lb uplift at joint 29, 75 lb uplift at joint 30, 49 lb uplift at joint 31, 158 lb uplift at joint 32, 62 lb uplift at joint 24, 75 lb uplift at joint 23, 68 lb uplift at joint 22, 72 lb uplift at joint 21, 59 lb uplift at joint 20 and 108 lb uplift at joint 19.

LOAD CASE(S) Standard

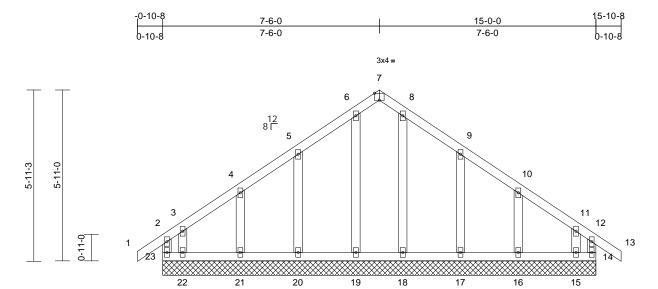






Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	B1	Common Supported Gable	1	1	Job Reference (optional)	150049379

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Scale = 1:39.9 Plate Offsets (X, Y): [7:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-R							Weight: 67 lb	FT = 10%

15-0-0

LUMBEK	
TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No 2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (lb/size) 14=121/15-0-0, 15=83/15-0-0, 16=186/15-0-0, 17=182/15-0-0,

18=161/15-0-0, 19=161/15-0-0, 20=182/15-0-0, 21=186/15-0-0,

22=83/15-0-0, 23=121/15-0-0 Max Horiz 23=172 (LC 7)

Max Uplift 14=-86 (LC 5), 15=-170 (LC 9),

16=-65 (LC 9), 17=-88 (LC 9),

20=-87 (LC 8), 21=-65 (LC 8),

22=-184 (LC 8), 23=-130 (LC 6) 14=164 (LC 18), 15=170 (LC 7), Max Grav

16=190 (LC 16), 17=193 (LC 16), 18=161 (LC 1), 19=166 (LC 15), 20=190 (LC 15), 21=190 (LC 15),

22=202 (LC 6), 23=198 (LC 16) **FORCES** (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-23=-149/83, 1-2=0/40, 2-3=-148/122,

3-4=-85/91, 4-5=-73/71, 5-6=-60/114, 6-7=-38/95, 7-8=-35/92, 8-9=-39/102, 9-10=-53/62, 10-11=-66/71, 11-12=-132/86,

12-13=0/40, 12-14=-127/55 BOT CHORD 22-23=-80/102, 21-22=-80/102,

20-21=-80/102, 19-20=-80/102, 18-19=-80/102, 17-18=-80/102, 16-17=-80/102, 15-16=-80/102,

14-15=-80/102

WEBS 6-19=-131/14, 8-18=-126/0, 5-20=-149/110,

4-21=-151/93, 3-22=-114/127 9-17=-151/112, 10-16=-151/92,

11-15=-102/120

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10: Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed: Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 23, 86 lb uplift at joint 14, 87 lb uplift at joint 20, 65 Ib uplift at joint 21, 184 lb uplift at joint 22, 88 lb uplift at joint 17, 65 lb uplift at joint 16 and 170 lb uplift at joint

LOAD CASE(S) Standard



February 4,2022

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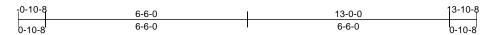
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

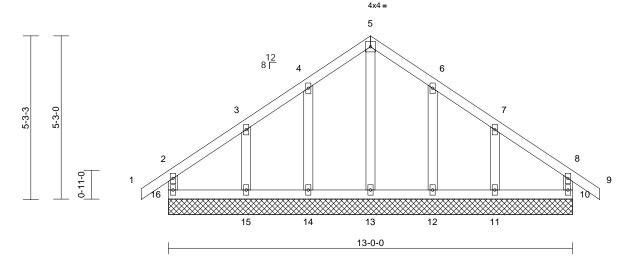


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Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	C1	Common Supported Gable	1	1	Job Reference (optional)	150049380

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Scale = 1:37.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-R							Weight: 54 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS 2x4 SPF No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

REACTIONS (lb/size)

10=186/13-0-0, 11=196/13-0-0, 12=183/13-0-0, 13=158/13-0-0,

14=183/13-0-0, 15=196/13-0-0, 16=186/13-0-0

Max Horiz 16=-155 (LC 6)

Max Uplift 10=-44 (LC 8), 11=-102 (LC 9),

12=-63 (LC 9), 14=-62 (LC 8), 15=-105 (LC 8), 16=-50 (LC 9)

10=186 (LC 1), 11=228 (LC 16), Max Grav

12=186 (LC 20), 13=178 (LC 18), 14=186 (LC 19), 15=234 (LC 15),

16=186 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-16=-164/60, 1-2=0/40, 2-3=-106/85,

3-4=-76/115, 4-5=-65/150, 5-6=-53/143,

6-7=-63/108, 7-8=-91/69, 8-9=0/40,

8-10=-164/55

BOT CHORD 15-16=-65/78, 14-15=-65/78, 13-14=-65/78,

12-13=-65/78, 11-12=-65/78, 10-11=-65/78 5-13=-137/0, 4-14=-149/89, 3-15=-173/120, WEBS

6-12=-149/89, 7-11=-170/119

NOTES

Unbalanced roof live loads have been considered for this design

- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 16, 44 lb uplift at joint 10, 62 lb uplift at joint 14, 105 lb uplift at joint 15, 63 lb uplift at joint 12 and 102 lb uplift at joint 11

LOAD CASE(S) Standard



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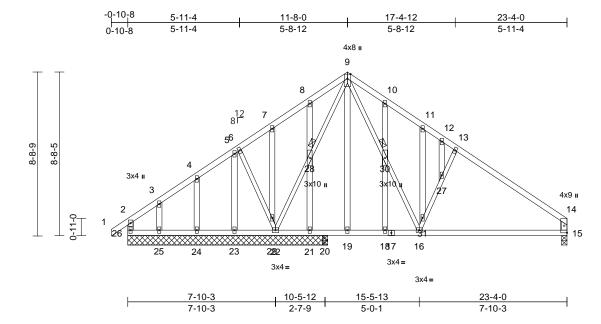


Ply Job Truss Truss Type Qty Lot 147 CB 150049381 B220056 D1 Common Structural Gable Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:10 ID:q9kCOXjSxcmi9uxIOXx81IzouEZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:61.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.09	15-16	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(TL)	-0.21	15-16	>719	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horiz(TL)	0.01	15	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		Wind(LL)	0.03	16-18	>999	240	Weight: 132 lb	FT = 10%

LUMBER

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2

2x3 SPF No.2 *Except* 26-2,15-14:2x4 SPF WEBS

No.2

OTHERS 2x4 SPF No.2

BRACING

FORCES

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

JOINTS 1 Brace at Jt(s): 28,

REACTIONS (lb/size)

15=551/0-3-8, 20=358/0-3-8, 21=15/10-7-8, 22=849/10-7-8, 23=-35/10-7-8, 24=182/10-7-8, 25=216/10-7-8, 26=10/10-7-8

Max Horiz 26=237 (LC 5)

15=-103 (LC 9), 21=-93 (LC 20), 22=-80 (LC 9), 23=-88 (LC 20),

24=-66 (LC 8), 25=-117 (LC 8),

26=-95 (LC 20)

Max Grav 15=551 (LC 1), 20=358 (LC 1)

21=114 (LC 19), 22=849 (LC 1), 23=64 (LC 8), 24=185 (LC 19),

25=255 (LC 15), 26=107 (LC 19)

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/40, 2-3=-96/221, 3-4=-40/190, 4-5=-9/179, 5-6=-9/229, 6-7=0/260, 7-8=0/291, 8-9=0/278, 9-10=-390/270,

10-11=-422/233, 11-12=-394/190, 12-13=-438/196, 13-14=-593/150, 2-26=-100/77, 14-15=-471/148

25-26=-205/136, 24-25=-205/136, **BOT CHORD** 23-24=-205/136, 22-23=-205/136,

21-22=-51/119, 20-21=-51/119, 19-20=-51/119, 18-19=-51/118, 16-18=-51/118, 15-16=-45/399

WEBS

9-30=-180/582, 16-30=-186/610, 16-31=-383/250, 27-31=-281/200, 13-27=-313/220, 22-28=-574/35,

9-28=-604/37, 6-29=-224/124,

22-29=-309/193, 12-27=-23/34, 9-19=-68/14, 8-28=-189/94, 21-28=-215/90, 7-29=-103/74, 5-23=-40/128, 4-24=-151/95, 3-25=-173/112, 10-30=-71/42, 18-30=-101/49, 11-31=-118/54

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOI =1 60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 95 lb uplift at joint 26, 80 lb uplift at joint 22, 103 lb uplift at joint 15, 93 lb uplift at joint 21, 88 lb uplift at joint 23, 66 lb uplift at joint 24 and 117 lb uplift at joint 25.



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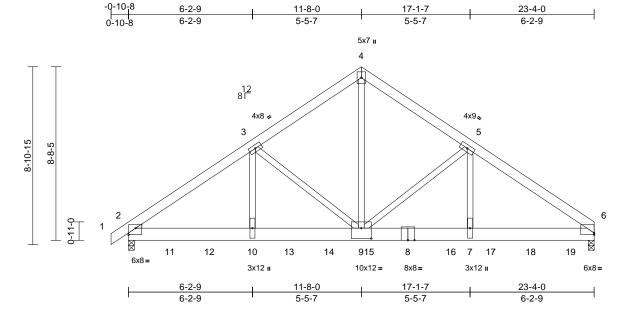




Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	D2	Common Girder	1	2	Job Reference (optional)	150049382

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Thu Feb 03 10:04:11 ID:v7sUetWXC8KjFieN33J5hWzuPOy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:57.7

Plate Offsets (X, Y): [2:Edge,0-3-15], [6:Edge,0-1-1], [9:0-6-0,0-6-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.11	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(TL)	-0.24	9-10	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.89	Horiz(TL)	0.06	6	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		Wind(LL)	0.08	9-10	>999	240	Weight: 316 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SPF No.2 BOT CHORD 2x8 SP 2400F 2.0E 2x4 SPF No.2 WEBS WEDGE Left: 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-4-3 oc purlins.

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

bracing.

REACTIONS (lb/size) 2=7347/0-3-8 6=7997/0-3-8

Max Horiz 2=216 (LC 7)

Max Uplift 2=-885 (LC 8), 6=-933 (LC 9)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/17, 2-3=-10151/1201, 3-4=-7037/920, 4-5=-7037/920, 5-6=-10352/1212

BOT CHORD 2-10=-1005/8106, 9-10=-1005/8106, 7-9=-895/8266, 6-7=-895/8266

WEBS 4-9=-890/7284, 5-9=-3248/536,

5-7=-371/3877, 3-9=-3041/520,

3-10=-362/3625

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc.
 - Bottom chords connected as follows: 2x8 2 rows staggered at 0-8-0 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 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 933 lb uplift at joint 6 and 885 lb uplift at joint 2.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1165 lb down and 140 lb up at 2-0-12, 1169 lb down and 140 lb up at 4-0-12, 1169 lb down and 140 lb up at 6-0-12, 1169 lb down and 140 lb up at 8-0-12, 1169 lb down and 140 lb up at 10-0-12, 1165 lb down and 140 lb up at 12-0-12, 1166 lb down and 140 lb up at 14-0-12, 1259 lb down and 147 lb up at 16-2-0, 1255 lb down and 145 lb up at 18-2-0, and 1255 lb down and 145 lb up at 20-2-0, and 1259 lb down and 145 lb up at 22-2-0 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=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-70, 4-6=-70, 2-6=-20

Concentrated Loads (lb)

Vert: 8=-1166 (B), 10=-1169 (B), 11=-1165 (B), 12=-1169 (B), 13=-1169 (B), 14=-1169 (B), 15=-1165 (B), 16=-1259 (B), 17=-1255 (B), 18=-1255 (B), 19=-1259 (B)



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SCOTT M.

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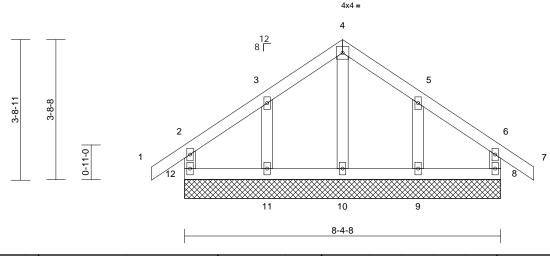


Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	E1	Common Supported Gable	1	1	Job Reference (optional)	150049383

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Page: 1

-0-10-8	4-2-4	8-4-8	9-3-0
0-10-8	4-2-4	4-2-4	0-10-8



Scale = 1:30.5

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-R							Weight: 33 lb	FT = 10%

LUMBER

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS 2x4 SPF No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (lb/size)

8=163/8-4-8, 9=187/8-4-8, 10=169/8-4-8, 11=187/8-4-8, 12=163/8-4-8

Max Horiz 12=-115 (LC 6)

Max Uplift 8=-39 (LC 8), 9=-88 (LC 9), 11=-90

(LC 8), 12=-42 (LC 9)

Max Grav 8=165 (LC 20), 9=214 (LC 16),

10=169 (LC 1), 11=218 (LC 15),

12=165 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=0/40, 2-3=-69/65, 3-4=-48/98, 4-5=-43/95, 5-6=-60/62, 6-7=0/40,

2-12=-146/51, 6-8=-146/53

BOT CHORD 11-12=-52/57, 10-11=-52/57, 9-10=-52/57,

8-9=-52/57 **WEBS**

4-10=-131/0, 3-11=-166/108, 5-9=-163/107

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 12, 39 lb uplift at joint 8, 90 lb uplift at joint 11 and 88 lb uplift at joint 9.



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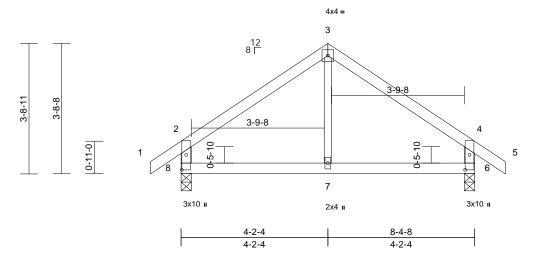


Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	E2	Common	2	1	Job Reference (optional)	150049384

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Page: 1





Scale = 1:32.9

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

			-									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.01	7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	-0.02	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-R		Wind(LL)	-0.01	7-8	>999	240	Weight: 27 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 7-3:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (lb/size) 6=435/0-3-8, 8=435/0-3-8

Max Horiz 8=-115 (LC 6)

Max Uplift 6=-63 (LC 9), 8=-63 (LC 8) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/40, 2-3=-355/70, 3-4=-355/70,

4-5=0/40, 2-8=-384/96, 4-6=-384/96

BOT CHORD 7-8=0/232, 6-7=0/232

WEBS 3-7=0/157

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 63 lb uplift at joint 8 and 63 lb uplift at joint 6.



February 4,2022

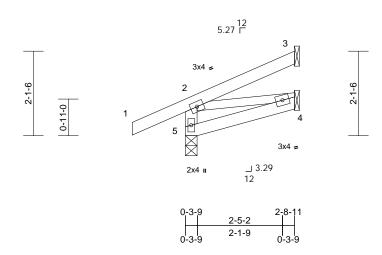


ſ	Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
	B220056	J1	Jack-Open Girder	1	1	Job Reference (optional)	150049385

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Scale = 1:28.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-P		Wind(LL)	0.00	5	>999	240	Weight: 11 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2 *Except* 4-2:2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=58/ Mechanical, 4=26/

Mechanical, 5=248/0-3-8

Max Horiz 5=58 (LC 5)

Max Uplift 3=-33 (LC 8), 4=-1 (LC 8), 5=-40

(LC 8)

Max Grav 3=58 (LC 1), 4=52 (LC 3), 5=248

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-5=-222/73, 1-2=0/41, 2-3=-48/16

TOP CHORD 2-5=-222/7 BOT CHORD 4-5=-68/11

WEBS 2-4=0/63

NOTES

- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 5, 33 lb uplift at joint 3 and 1 lb uplift at joint 4.



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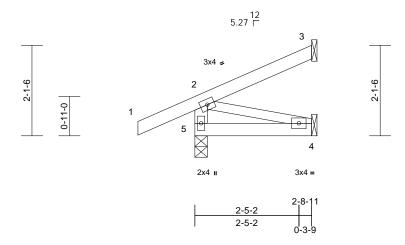


Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	J2	Jack-Open Girder	1	1	Job Reference (optional)	150049386

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:12

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Scale = 1:26.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-P							Weight: 11 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2

2x4 SPF No.2 *Except* 4-2:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-10-14 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size)

3=58/ Mechanical, 4=26/ Mechanical, 5=247/0-3-8

Max Horiz 5=58 (LC 8)

3=-33 (LC 8), 4=-1 (LC 8), 5=-41 Max Uplift

(LC 8)

Max Grav 3=58 (LC 1), 4=52 (LC 3), 5=247

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-5=-222/56, 1-2=0/41, 2-3=-48/16

BOT CHORD 4-5=-63/0

WEBS 2-4=0/65

NOTES

TOP CHORD

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 41 lb uplift at joint 5, 33 lb uplift at joint 3 and 1 lb uplift at joint 4.

LOAD CASE(S) Standard



February 4,2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	V1	Valley	1	1	Job Reference (optional)	150049387

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Thu Feb 03 10:04:12 ID:gOp5loPuKNC?gJSe1gf_qdzuPP5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

in

n/a

n/a

0.00

(loc)

5

n/a 999

n/a 999

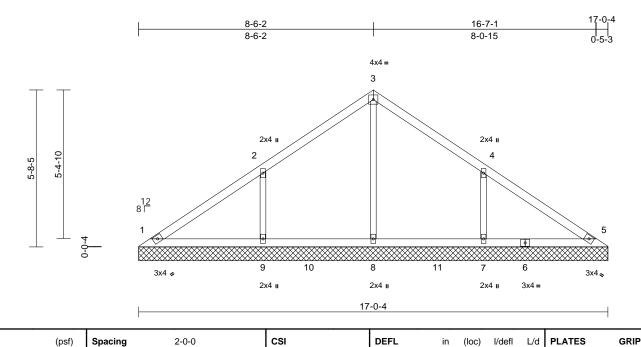
n/a n/a MT20

Weight: 50 lb

197/144

FT = 10%

Page: 1



BCDL LUMBER

Scale = 1:41.8 Loading

TCLL (roof)

TCDI

BCLL

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 **BOT CHORD** 2x3 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

(psf)

25.0

10.0

10.0

0.0*

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=170/17-0-4, 5=170/17-0-4, 7=429/17-0-4, 8=252/17-0-4,

9=429/17-0-4

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Code

1.15

1 15

YES

IRC2012/TPI2007

Max Horiz 1=-140 (LC 4)

Max Uplift 1=-15 (LC 9), 7=-173 (LC 9),

9=-173 (LC 8)

Max Grav 1=170 (LC 1), 5=170 (LC 1), 7=463

(LC 16), 8=354 (LC 15), 9=464 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-149/105, 2-3=-148/127, 3-4=-140/106, TOP CHORD

4-5=-114/68 1-9=-41/95, 8-9=-41/95, 7-8=-41/95,

BOT CHORD 5-7=-41/95

WFRS 3-8=-183/0, 2-9=-347/219, 4-7=-347/219

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

Gable studs spaced at 4-0-0 oc.

TC

BC

WB

Matrix-S

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

0.22

0.12

0.13

Vert(LL)

Vert(TL)

Horiz(TL)

- * 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 15 lb uplift at joint 1, 173 lb uplift at joint 9 and 173 lb uplift at joint 7.

LOAD CASE(S) Standard



February 4,2022



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

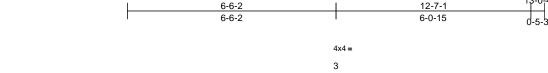
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

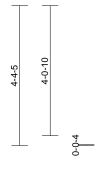
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

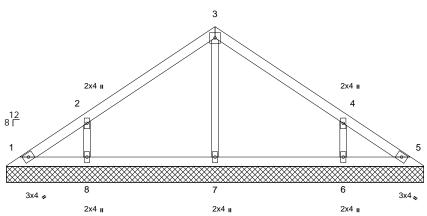


Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	V2	Valley	1	1	Job Reference (optional)	150049388

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:12 ID:8aNTy8QW5hKsIT1rbNADMqzuPP4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1







13-0-4

Scale = 1:36

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S							Weight: 36 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=73/13-0-4, 5=73/13-0-4,

6=330/13-0-4, 7=285/13-0-4,

8=330/13-0-4

Max Horiz 1=-106 (LC 4)

1=-22 (LC 4), 5=-2 (LC 5), 6=-139 Max Uplift

(LC 9), 8=-139 (LC 8)

Max Grav 1=91 (LC 16), 5=76 (LC 15), 6=348

(LC 16), 7=285 (LC 1), 8=348 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-112/81, 2-3=-144/97, 3-4=-140/74, 4-5=-88/46

1-8=-26/73, 7-8=-26/73, 6-7=-26/73, 5-6=-26/73

WFRS 3-7=-200/21, 2-8=-281/181, 4-6=-281/180

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 22 lb uplift at joint 1, 2 lb uplift at joint 5, 139 lb uplift at joint 8 and 139 lb uplift at joint 6.

LOAD CASE(S) Standard

OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 SSIONAL

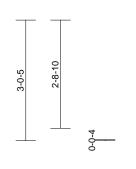
February 4,2022

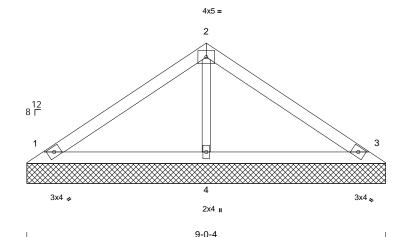


Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	V3	Valley	1	1	Job Reference (optional)	150049389

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Scale = 1:29

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S							Weight: 23 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=188/9-0-4, 3=188/9-0-4,

4=355/9-0-4

Max Horiz 1=-71 (LC 4) 1=-36 (LC 8), 3=-44 (LC 9), 4=-14 Max Uplift

(LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-140/67, 2-3=-140/51 **BOT CHORD** 1-4=-14/65, 3-4=-14/65

WEBS 2-4=-231/59

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 36 lb uplift at joint 1, 44 lb uplift at joint 3 and 14 lb uplift at joint 4.



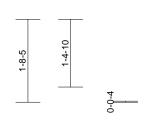
February 4,2022

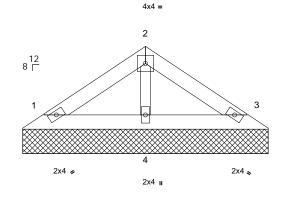


Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	V4	Valley	1	1	Job Reference (optional)	150049390

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		5-0-4
2-6-2	4-7-1	
2-6-2	2-0-15	0-5-3





5-0-4

Scale = 1:23.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-P							Weight: 12 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-1-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=104/5-0-4, 3=104/5-0-4,

4=162/5-0-4

Max Horiz 1=36 (LC 5)

Max Uplift 1=-23 (LC 8), 3=-28 (LC 9) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-65/33, 2-3=-62/25 BOT CHORD 1-4=-7/30, 3-4=-7/30 **WEBS**

2-4=-111/28

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1 and 28 lb uplift at joint 3.

LOAD CASE(S) Standard

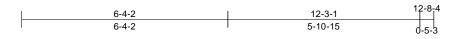
OF MISS SCOTT M. SEVIER PE-2001018807 SSIONAL

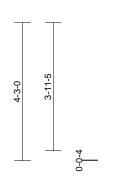
February 4,2022

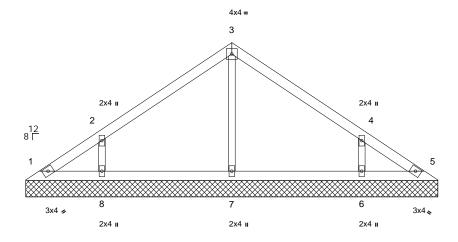


Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	V5	Valley	1	1	Job Reference (optional)	150049391

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12-8-4

Scale = 1:35.5

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S							Weight: 35 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=61/12-8-4, 5=61/12-8-4, 6=326/12-8-4, 7=285/12-8-4,

8=326/12-8-4

Max Horiz 1=-103 (LC 4)

1=-25 (LC 4), 5=-6 (LC 5), 6=-138 Max Uplift

(LC 9), 8=-138 (LC 8)

Max Grav 1=82 (LC 16), 5=68 (LC 15), 6=344 (LC 16), 7=285 (LC 1), 8=345 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-108/80, 2-3=-143/95, 3-4=-140/72, 4-5=-85/46

BOT CHORD 1-8=-25/72, 7-8=-25/72, 6-7=-25/72,

5-6=-25/72

3-7=-200/23, 2-8=-280/180, 4-6=-280/180

WFRS NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 25 lb uplift at joint 1, 6 lb uplift at joint 5, 138 lb uplift at joint 8 and 138 lb uplift at joint 6.

LOAD CASE(S) Standard

OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 SSIONAL

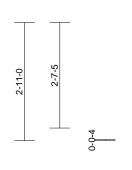
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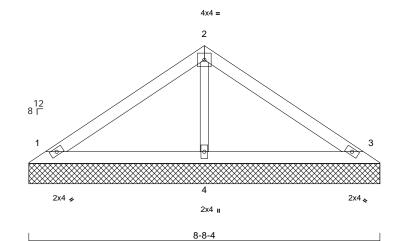


Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	V6	Valley	1	1	Job Reference (optional)	I50049392

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Scale = 1:28.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-P							Weight: 22 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=197/8-8-4, 3=197/8-8-4,

4=306/8-8-4

Max Horiz 1=-68 (LC 4)

Max Uplift 1=-43 (LC 8), 3=-52 (LC 9)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-122/62, 2-3=-118/47 BOT CHORD 1-4=-14/57, 3-4=-14/57

WEBS 2-4=-209/53

NOTES

FORCES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 1 and 52 lb uplift at joint 3.

LOAD CASE(S) Standard

OF MISS SCOTT M. SEVIER PE-2001018807 SSIONAL

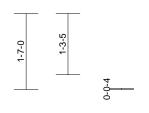
February 4,2022

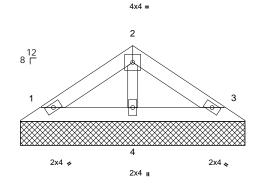


Job	Truss	Truss Type	Qty	Ply	Lot 147 CB	
B220056	V7	Valley	1	1	Job Reference (optional)	150049393

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Thu Feb 03 10:04:13 ID:8aNTy8QW5hKsIT1rbNADMgzuPP4-RfC?PsB70Hg3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

_		4-8-4
2-4-2	4-3-1	
2-4-2	1-10-15	0-5-3





4-8-4

Scale = 1:24

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-P							Weight: 11 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-9-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=96/4-8-4, 3=96/4-8-4,

4=149/4-8-4

Max Horiz 1=-33 (LC 4)

Max Uplift 1=-21 (LC 8), 3=-25 (LC 9) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-59/30, 2-3=-57/23 BOT CHORD 1-4=-7/28, 3-4=-7/28 **WEBS**

2-4=-102/26

NOTES

FORCES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 25 lb uplift at joint 3.

LOAD CASE(S) Standard

OF MISS SCOTT M. SEVIER PE-2001018807 SSIONAL

February 4,2022

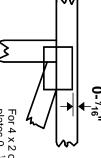


Symbols

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- ¹/16" from outside edge of truss.

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

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE



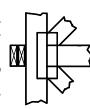
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



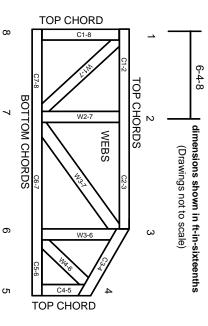
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

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 & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 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.

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- 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.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANS/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.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 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.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- 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 ANSI/TPI 1 Quality Criteria.
- 21.The design does not take into account any dynamic or other loads other than those expressly stated.