

RE: 1023-067 - MiTek, Inc.

Site Information:

Customer Info: RICHARD ECHEVERRI Project Name: . Model: .

Lot/Block: . Subdivision: .

Address: ., .

City: LAKE CITY State: FL.

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

Name: License #:

Address:

City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.7

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 96 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No. 1 2 3 4 5 6 7 8 9 10 11 23 14 15 16 17 18 19	Seal# T32352909 T32352910 T32352911 T32352912 T32352913 T32352915 T32352916 T32352917 T32352918 T32352919 T32352920 T32352921 T32352921 T32352921 T32352924 T32352924 T32352926 T32352926	Truss Name A01 A02 A03 A3A A04 A05 A06 B01 B02 B03 B04 C01 C02 C03 C04 C05 C06 CJ01 CJ02	Date 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23	No. 23 24 225 226 27 28 29 331 32 33 34 35 36 37 38 39 41	Seal# T32352931 T32352932 T32352934 T32352935 T32352936 T32352937 T32352939 T32352940 T32352941 T32352942 T32352943 T32352944 T32352945 T32352946 T32352946 T32352948 T32352948 T32352948	Truss Name G01 G02 G03 G04 G05 G06 H01 H02 H03 H04 H05 H06 H07 H08 H09 H10 H11 H12 H13	Date 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23 12/13/23

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

Truss Design Engineer's Name: Lee, Julius

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

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



16023 Swingley Ridge Rd.

Chesterfield, MO 63017

314.434.1200

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



RE: 1023-067 -

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

Site Information:

Customer Info: RICHARD ECHEVERRI Project Name: . Model: .

Lot/Block: Subdivision:

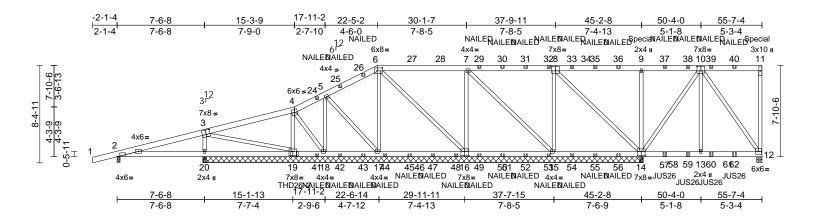
Address: ., .

City: LAKE CITY State: FL.

Job	Truss	Truss Type	Qty	Ply		
1023-067	A01	Half Hip Girder	1	2	Job Reference (optional)	T32352909

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:01 ID:sbJcuRMYaoRgZ4nv0RVfosyOIYD-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:99.3

Plate Offsets (X, Y): [2:0-2-12,Edge], [3:0-4-0,0-4-8], [6:0-5-4,0-3-0], [8:0-4-0,0-4-8], [10:0-4-0,0-4-8], [14:0-4-0,0-4-8], [16:0-	0-4-0,0-4-8], [19:0-4-0,0-4-8]
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-												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	0.04	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.06	16-17	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 883 lb	FT = 20%

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

BRACING

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

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

bracing, Except:

6-0-0 oc bracing: 15-16,14-15.

REACTIONS (size) 2=0-3-0, 12=0-5-8, 14=37-11-8, 15=37-11-8, 16=37-11-8, 17=37-11-8, 18=37-11-8,

19=37-11-8, 20=37-11-8

Max Horiz 2=217 (LC 7)

Max Uplift 2=-57 (LC 8), 12=-1080 (LC 5), 14=-1505 (LC 8), 15=-839 (LC 8), 16=-806 (LC 8), 17=-321 (LC 8)

16=-606 (LC 8), 17=-321 (LC 5), 18=-171 (LC 8), 19=-92 (LC 8)

Max Grav 2=390 (LC 19), 12=1566 (LC 15), 14=2830 (LC 14), 15=1929 (LC 15), 16=1885 (LC 13), 17=1403 (LC 13), 18=597 (LC 13), 19=1641

(LC 1), 20=793 (LC 13)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 4-5=-174/61, 5-6=-194/91, 6-7=-126/70,

7-9=-73/177, 9-11=-89/176, 11-12=-459/706,

1-2=0/31, 2-4=-235/67

BOT CHORD 2-20=-78/162, 18-20=-90/113,

17-18=-82/109, 15-17=-60/118, 13-15=-337/701, 12-13=-337/701

WEBS 5-17=-16/31, 6-17=-326/37, 3-20=-528/90,

3-19=-13/40, 4-19=-265/45, 4-18=-51/66, 5-18=-231/39, 9-14=-736/608, 8-14=-235/20,

7-16=-444/38, 6-16=-91/30, 7-15=-101/30, 8-15=-750/0, 10-13=-792/1248, 10-14=-1407/556, 10-12=-1158/501

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, 2x4 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=56ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) All bearings are assumed to be SP No.2
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1080 lb uplift at joint 12, 57 lb uplift at joint 2, 321 lb uplift at joint 17, 92 lb uplift at joint 19, 171 lb uplift at joint 18, 1505 lb uplift at joint 14, 606 lb uplift at joint 16 and 839 lb uplift at ioint 15.

- Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 15-10-12 from the left end to connect truss(es) to back face of bottom chord.
- 11) Use MiTek JUS26 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 47-10-0 from the left end to 53-10-0 to connect truss(es) to back face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 335 lb down and 802 lb up at 45-10-0, and 330 lb down and 779 lb up at 56-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanded): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (b)/ft)

Vert: 4-6=00, 6-11=6003=214-20, 1-4=-60 Concentrated Loads (lb)

No 34869

Julius Lee PE No. 34869

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 14,2023

Continued on page 2

WARNING - Ver

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



Job	Truss	Truss Type	Qty	Ply		
1023-067	A01	Half Hip Girder	1	2	Job Reference (optional)	T32352909

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:01

Page: 2

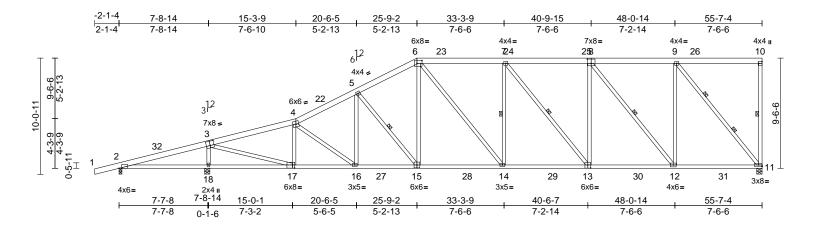
Vert: 11=260 (B), 19=-1247 (B), 9=267 (B), 24=-30 (B), 26=-66 (B), 29=83 (B), 30=83 (B), 31=83 (B), 32=83 (B), 33=83 (B), 35=83 (B), 36=83 (B), 37=-97 (B), 38=-97 (B), 39=-97 (B), 40=-97 (B), 41=-153 (B), 42=-189 (B), 43=-148 (B), 44=-251 (B), 45=-251 (B), 47=-251 (B), 48=-251 (B), 49=-270 (B), 50=-270 (B), 56=-270 (B), 55=-270 (B), 55=-270 (B), 55=-344 (B), 59=-344 (B), 60=-344 (B). 56=-270 (B), 57=-344 (B), 59=-344 (B), 60=-344 (B), 62=-344 (B)



Job	Truss	Truss Type	Qty	Ply		
1023-067	A02	Half Hip	1	1	T32352910 Job Reference (optional)	

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:02 ID:egrUiosuhikicX?zTFFVVjyOIXZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:99.6

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

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.29	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.51	14-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.14	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 404 lb	FT = 20%

LUMBER

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

2x4 SP No.2 *Except* WEBS 11-9,14-6,13-7,12-8:2x4 SP No.1

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

10-11, 5-15, 7-14, 7-13, WFBS 1 Row at midpt

8-12 WEBS 2 Rows at 1/3 pts 9-11

REACTIONS (size)

2=0-3-0, 11=0-5-8, 18=0-5-8 Max Horiz 2=270 (LC 11)

Max Uplift 2=-63 (LC 8), 11=-2 (LC 12)

2=165 (LC 1), 11=2193 (LC 17), Max Grav

18=2959 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 4-5=-3346/364, 5-6=-3000/380,

6-7=-2846/387, 7-9=-2468/337,

9-10=-143/146, 10-11=-184/83, 1-2=0/31,

2-4=-3146/1092

BOT CHORD 2-18=-925/97, 16-18=-818/3137,

14-16=-478/3033, 12-14=-388/2882,

11-12=-229/1573

WEBS 3-18=-2666/373, 3-17=-394/4015,

4-17=-898/192, 4-16=-147/57, 5-16=0/272,

5-15=-574/104, 6-15=-1/738,

9-11=-2455/237, 7-14=-81/173, 6-14=-31/411, 7-13=-609/104, 8-13=0/793, 8-12=-1460/151,

9-12=-26/1495

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=56ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 4-1-7, Interior (1) 4-1-7 to 26-4-6, Exterior(2R) 26-4-6 to 34-3-12, Interior (1) 34-3-12 to 56-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 11 and 63 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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

December 14,2023



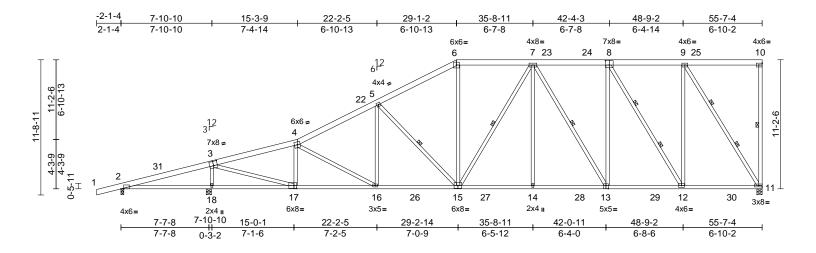
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	A03	Half Hip	1	1	Job Reference (optional)	T32352911

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:02 ID:04ODsqn?UFeIZp4LkR5Yv1yOIV5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:99.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.24	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.42	15-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.13	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 428 lb	FT = 20%

LUMBER

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

2x4 SP No.2 *Except* 11-9:2x4 SP SS WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals **BOT CHORD**

Rigid ceiling directly applied. WEBS 10-11, 5-15, 7-15, 7-13 1 Row at midpt

WFRS 2 Rows at 1/3 pts 8-12, 9-11 **REACTIONS** (size) 2=0-3-0, 11=0-5-8, 18=0-5-8

Max Horiz 2=320 (LC 11)

Max Uplift 2=-64 (LC 8), 11=-4 (LC 12)

2=175 (LC 1), 11=2217 (LC 17), Max Grav 18=2963 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

4-5=-3255/347, 5-6=-2713/370,

6-7=-2373/363, 7-9=-1972/322,

9-10=-160/169, 10-11=-165/93, 1-2=0/31,

2-4=-3079/1104

BOT CHORD 2-18=-920/95, 16-18=-816/3095,

14-16=-498/2958, 12-14=-372/2401,

11-12=-221/1245

WEBS 3-18=-2675/364, 3-17=-373/3974,

4-17=-909/195, 4-16=-179/67, 5-16=0/387 5-15=-799/130, 6-15=-18/826, 8-13=-41/947,

8-12=-1461/166, 9-12=-62/1579,

9-11=-2308/244, 7-14=0/368, 7-15=-203/80,

7-13=-766/129

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=56ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 4-0-12, Interior (1) 4-0-12 to 29-8-6, Exterior(2R) 29-8-6 to 37-6-12, Interior (1) 37-6-12 to 56-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 11 and 64 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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

December 14,2023



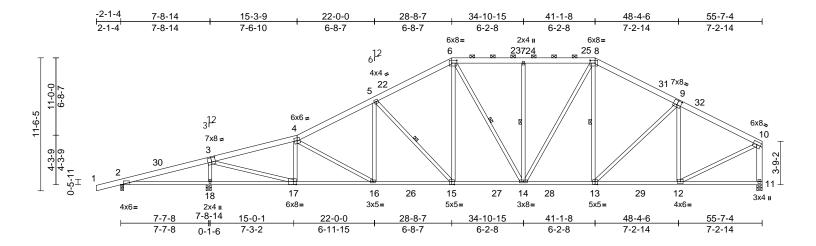
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	_	
1023-067	A3A	Piggyback Base	1	1	Job Reference (optional)	32352912

Run: 8 73 S. Nov 13 2023 Print: 8 730 S.Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:10:57 ID:nzWNOdvKapM5D6hDhTFMAeyOITe-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:99.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.22	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.40	15-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		, ,					Weight: 405 lb	FT = 20%

LUMBER

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

2x4 SP No.2 *Except* 11-10:2x6 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied,

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

(4-9-3 max.): 6-8.

BOT CHORD Rigid ceiling directly applied.

WFRS 1 Row at midpt 5-15, 6-14, 7-14, 8-13

REACTIONS (size) 2=0-3-0, 11=0-5-8, 18=0-5-8

Max Horiz 2=236 (LC 11) Max Uplift 2=-63 (LC 8)

Max Grav 2=196 (LC 24), 11=4154 (LC 18),

18=2905 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

4-5=-3242/371, 5-6=-2705/391, TOP CHORD

6-7=-2340/389, 7-8=-2340/389,

10-11=-2049/234, 1-2=0/31, 2-4=-3129/1028,

8-10=-2380/358

BOT CHORD 2-18=-841/104, 16-18=-736/3155,

14-16=-305/2962, 12-14=-206/2054

11-12=-42/85

WEBS 3-18=-2617/346, 3-17=-351/3938

4-17=-858/185, 4-16=-251/74, 5-16=0/401, 5-15=-805/134, 6-15=-20/871, 6-14=-78/240,

7-14=-393/128, 8-14=-66/698, 8-13=-75/233,

9-13=-12/303, 9-12=-633/173,

10-12=-182/2017

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=56ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 4-0-12, Interior (1) 4-0-12 to 29-3-11, Exterior(2R) 29-3-11 to 34-10-6, Interior (1) 34-10-6 to 41-8-11, Exterior(2R) 41-8-11 to 47-3-7, Interior (1) 47-3-7 to 55-11-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft) Vert: 4-6=-60, 6-8=-60, 11-19=-20, 1-4=-60, 8-10=-60

Concentrated Loads (lb)



Vert: 11=-959

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 14,2023



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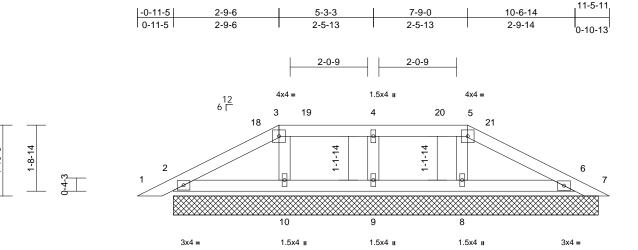
Job	Truss	Truss Type	Qty	Ply		
1023-067	A04	Piggyback	1	1	Job Reference (optional)	T32352913

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:03 ID:qGtnoR3weDAGxH_d4JdsnVyOlcT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

10-6-14

2-11-10

Page: 1



5-3-3

2-4-1

2-11-2

2-11-2

Scale = 1:30.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 41 lb	FT = 20%

7-7-4

2-4-1

LUMBER

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

BRACING TOP CHORD

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

REACTIONS (size)

2=11-2-3, 6=11-2-3, 7=11-2-3, 8=11-2-3, 9=11-2-3, 10=11-2-3, 11=11-2-3, 14=11-2-3

Max Horiz 2=30 (LC 11), 11=30 (LC 11) Max Uplift 2=-21 (LC 12), 6=-8 (LC 12), 7=-55

(LC 24), 9=-14 (LC 8), 11=-21 (LC 12), 14=-8 (LC 12)

Max Grav 2=148 (LC 1), 6=227 (LC 1), 7=5 (LC 12), 8=204 (LC 1), 9=197 (LC 24), 10=219 (LC 1), 11=148 (LC 1),

14=227 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

1-2=0/17, 2-3=-43/35, 3-4=-21/43, TOP CHORD 4-5=-21/43, 5-6=-51/34, 6-7=-10/46 **BOT CHORD**

2-10=-2/31, 9-10=-9/32, 8-9=-9/32,

6-8=-12/27 **WEBS**

3-10=-143/60, 5-8=-137/59, 4-9=-160/80

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior (1) 3-3-15 to 3-8-11, Exterior(2R) 3-8-11 to 7-11-10, Interior (1) 7-11-10 to 8-8-5, Exterior(2E) 8-8-5 to 12-1-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing. 6)
- Gable studs spaced at 4-0-0 oc. 7)
- 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) All bearings are assumed to be SP No.1 .
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 7, 21 lb uplift at joint 2, 8 lb uplift at joint 6, 14 lb uplift at joint 9, 21 lb uplift at joint 2 and 8 lb uplift at joint 6.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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December 14,2023



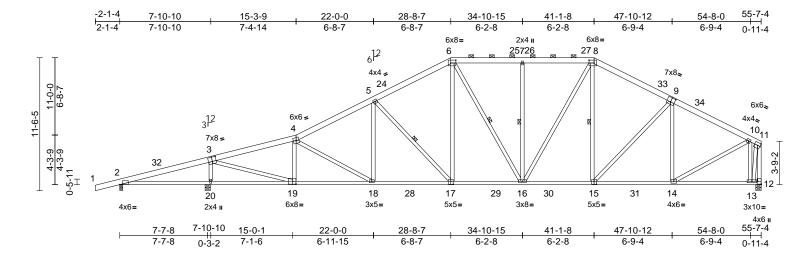
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	A05	Piggyback Base	4	1	Job Reference (optional)	T32352914

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:03

Page: 1



Scale = 1:99.9

Plate Offsets (X, Y): [2:0-2-12,Edge], [3:0-4-0,0-4-8], [6:0-5-4,0-3-0], [8:0-5-4,0-3-0], [9:0-4-0,0-4-8], [12:Edge,0-3-8], [15:0-2-8,0-3-4], [17:0-2-8,0-3-4], [19:0-3-4,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	-0.21	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.38	17-18	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.10	12	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 412 lb	FT = 20%

LUMBER

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 3-9-14 oc purlins, except end verticals, and

2-0-0 oc purlins (4-10-5 max.): 6-8. Rigid ceiling directly applied or 6-0-0 oc

bracing

WFBS 1 Row at midpt 5-17, 6-16, 7-16, 8-15 2=0-3-0, 12=0-5-8, 13=0-5-8,

REACTIONS (size) 20=0-5-8

Max Horiz 2=235 (LC 11) 2=-61 (LC 8), 12=-901 (LC 19) Max Uplift Max Grav 2=211 (LC 23), 12=-41 (LC 12)

13=3099 (LC 18), 20=2856 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 4-5=-3132/362, 5-6=-2607/384, 6-7=-2236/382. 7-8=-2236/382.

11-12=-123/636, 1-2=0/31, 2-4=-2991/1002,

8-10=-2231/350. 10-11=-85/189

BOT CHORD 2-20=-817/103, 18-20=-716/3023

16-18=-296/2865, 14-16=-187/1925, 13-14=-54/51, 12-13=-51/54

WFBS 3-20=-2565/341, 3-19=-334/3791

4-19=-860/183, 4-18=-211/64, 5-18=0/388,

5-17=-797/136, 6-17=-23/864, 6-16=-88/221,

7-16=-412/137, 8-16=-74/740, 8-15=-131/167, 9-15=0/379, 9-14=-699/162,

10-14=-156/1945, 10-13=-2231/368,

11-13=-479/35

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=56ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 4-0-12, Interior (1) 4-0-12 to 29-3-11, Exterior(2R) 29-3-11 to 34-10-6, Interior (1) 34-10-6 to 41-8-11, Exterior(2R) 41-8-11 to 47-3-7, Interior (1) 47-3-7 to 56-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 2 and 901 lb uplift at joint 12.
- 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



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December 14,2023



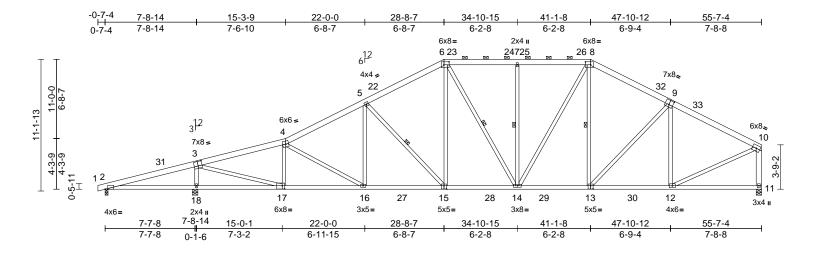
M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	A06	Piggyback Base	1	1	Job Reference (optional)	T32352915

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:04 ID:ZuiyZd9hZZX8o1ny9nxStmyOIF6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:97.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.22	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.40	15-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 402 lb	FT = 20%

LUMBER

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

2x4 SP No.2 *Except* 11-10:2x6 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-8-5 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-14 max.): 6-8.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing

WFBS 1 Row at midpt 5-15, 6-14, 7-14, 8-13

REACTIONS (size) 2=0-3-0, 11=0-5-8, 18=0-5-8

> Max Horiz 2=232 (LC 11) Max Uplift 2=-31 (LC 8)

Max Grav 2=94 (LC 23), 11=2161 (LC 18),

18=2913 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 4-5=-3247/371 5-6=-2707/391

6-7=-2344/390, 7-8=-2344/390,

10-11=-2042/237, 1-2=0/9, 2-4=-3136/1011,

8-10=-2376/361

BOT CHORD 2-18=-826/91, 16-18=-721/3162

14-16=-306/2968, 12-14=-208/2049,

11-12=-43/79

WFBS 3-18=-2617/348, 3-17=-343/3927,

4-17=-857/184, 4-16=-246/66, 5-16=0/403, 5-15=-817/138, 6-15=-24/878, 6-14=-72/250, 7-14=-413/138, 8-14=-71/712, 8-13=-67/238,

9-13=-40/264, 9-12=-600/171,

10-12=-181/2047

- NOTES
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=56ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 5-6-12, Interior (1) 5-6-12 to 29-3-11, Exterior(2R) 29-3-11 to 34-10-6, Interior (1) 34-10-6 to 41-8-11, Exterior(2R) 41-8-11 to 47-3-7, Interior (1) 47-3-7 to 55-11-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint
- 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



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December 14,2023



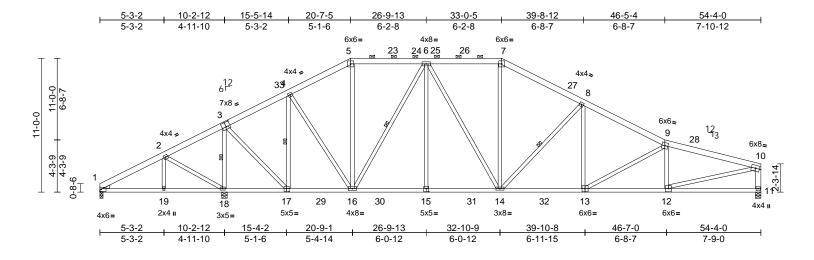
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	B01	Piggyback Base	1	1	Job Reference (optional)	T32352916

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:04 ID:elvJzibO?dzU14Dm?CZp3MyOIBy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:94.7

Plate Offsets (X, Y):	[3:0-4-0,0-4-8]	, [15:0-2-8,0-3-0]	, [17:0-2-8,0-3-0]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.21	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.38	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 411 lb	FT = 20%

LUMBER

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

2x4 SP No.2 *Except* 11-10:2x6 SP No.2 WEBS

Left: 2x4 SP No.3 WFDGF

BRACING TOP CHORD

Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins

(5-2-11 max.): 5-7.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 6-16, 8-14, 3-18, 4-17

REACTIONS 1=0-3-0, 11=0-5-8, 18=0-5-8 (size)

Max Horiz 1=209 (LC 11)

Max Uplift 1=-142 (LC 24), 11=-1 (LC 12)

Max Grav 1=125 (LC 23), 11=1920 (LC 18),

18=3080 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 5-6=-1239/293, 6-7=-1974/356,

7-8=-2266/350, 8-9=-2989/346

9-10=-3291/312, 10-11=-1782/203,

1-2=-96/517, 2-4=-837/987, 4-5=-1443/299

BOT CHORD 1-19=-432/96, 18-19=-432/57,

16-18=-843/762, 14-16=-93/1754

12-14=-273/3126, 11-12=-39/227

5-16=-6/349, 6-16=-1089/99, 6-15=0/346,

6-14=-28/394, 7-14=-17/643, 8-14=-993/167, 8-13=0/615, 9-13=-650/90, 9-12=-530/151,

10-12=-236/2997, 2-19=0/212, 2-18=-614/98,

3-18=-2589/303, 4-17=-1340/185,

4-16=-13/994, 3-17=-167/2115

NOTES

WEBS

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=54ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 5-3-2, Interior (1) 5-3-2 to 20-7-5, Exterior(2R) 20-7-5 to 26-0-8, Interior (1) 26-0-8 to 33-0-5, Exterior(2R) 33-0-5 to 38-5-8, Interior (1) 38-5-8 to 54-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 * This truss has been designed for a live load of 20.0psf
- 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.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 1 and 1 lb uplift at joint 11.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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



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December 14,2023



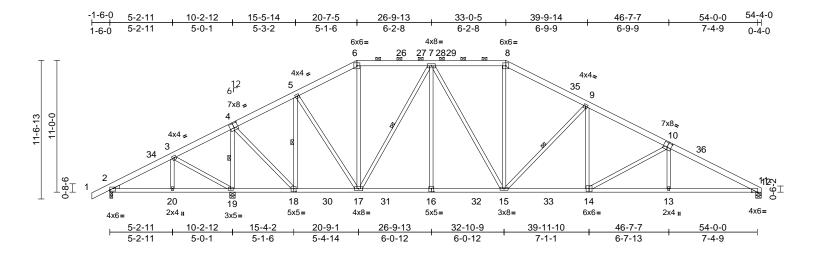
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	B02	Piggyback Base	7	1	Job Reference (optional)	T32352917

Run: 9.04 F. 8.73 Nov.16.2023 Print: 8.730 F. Nov.16.2023 MiTek Industries. Inc. Thu Dec.14.11:49:11 ID:Qe1UUVjk5ChHhNqexEkdKzyOIAV-Brg72EaJbNaf4?KmpvYqfpQv5AprOekETs1r7Ty9EYs

Page: 1



Scale = 1:96.1

Plate Offsets (X, Y): [2:Edge,0-1-2], [4:0-4-0,0-4-8], [10:0-4-0,0-4-8], [11:0-5-8,Edge], [16:0-2-8,0-3-0], [18:0-2-4,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	-0.21	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.38	14-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.12	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 401 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 WEBS WFDGF Left: 2x4 SP No.2

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (5-2-11 max.): 6-8

BOT CHORD Rigid ceiling directly applied. **WEBS** 1 Row at midpt 7-17, 9-15, 4-19, 5-18

REACTIONS (lb/size) 2=112/0-3-0, 11=1668/0-5-8,

19=2643/0-5-8

Max Horiz 2=211 (LC 11)

Max Uplift 2=-116 (LC 24), 11=-2 (LC 12) 2=213 (LC 23), 11=1960 (LC 18), Max Grav

19=3088 (LC 17)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown. 6-26=-1232/215, 26-27=-1232/215, 7-27=-1232/215, 7-28=-1976/245, 28-29=-1976/245, 8-29=-1976/245

2-34=-72/494, 3-34=0/534, 3-4=0/1016. 4-5=-822/149, 5-6=-1436/215,

8-35=-2188/230, 9-35=-2268/197

9-10=-3021/198, 10-36=-3587/168

11-36=-3672/147

BOT CHORD 2-20=-461/83, 19-20=-461/56,

18-19=-864/95, 18-30=0/755, 17-30=0/755, 17-31=0/1752, 16-31=0/1752, 16-32=0/1752,

15-32=0/1752, 15-33=-27/2577, 14-33=-27/2577, 13-14=-77/3227,

WEBS 6-17=0/345, 7-17=-1097/54, 7-16=0/345, 7-15=-14/405, 8-15=0/634, 9-15=-1001/106, 9-14=0/652, 10-14=-736/80, 10-13=0/272,

3-19=-599/47, 4-19=-2607/143,

5-18=-1349/97, 5-17=0/1008, 4-18=-48/2126

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=54ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 3-10-13, Interior (1) 3-10-13 to 20-7-5, Exterior(2R) 20-7-5 to 26-0-1. Interior (1) 26-0-1 to 33-0-5. Exterior (2R) 33-0-5 to 38-5-2, Interior (1) 38-5-2 to 54-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 2 and 2 lb uplift at joint 11.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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



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December 14,2023



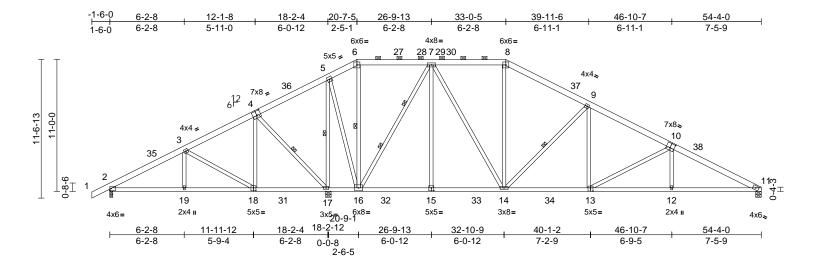
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	B03	Piggyback Base	4	1	Job Reference (optional)	T32352918

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:05 ID:huxQl8W?wtgeHjPrQYsZeTyOl6v-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:96.1

Plate Offsets (X, Y): [4:0-4-0,0-4-8], [10:0-4-0,0-4-8], [13:0-2-8,0-3-4], [15:0-2-8,0-3-0], [18:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.16	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.29	13-14	>999	180	20	21.7.00
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 408 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (6-0-0 max.): 6-8. Rigid ceiling directly applied.

BOT CHORD WFRS 1 Row at midpt 6-16, 9-14, 5-17, 4-17

WEBS 2 Rows at 1/3 pts 7-16

REACTIONS 2=0-3-0, 11=0-5-8, 17=0-5-8 (size)

Max Horiz 2=210 (LC 11) Max Uplift 2=-41 (LC 12)

Max Grav 2=576 (LC 23), 11=1504 (LC 18),

17=3084 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 6-7=0/245, 7-8=-1084/214, 1-2=0/40,

2-3=-613/47, 3-5=-119/885, 5-6=0/267, 8-9=-1279/194, 9-11=-2719/162

BOT CHORD 2-19=-175/501, 17-19=-276/501,

16-17=-749/135, 14-16=0/627,

12-14=-46/2379, 11-12=-45/2382

WEBS 6-16=-275/10, 7-16=-1650/72, 7-15=0/363 7-14=-33/903, 8-14=0/243, 9-14=-1016/107,

9-13=0/651, 10-13=-748/82, 10-12=0/272,

5-17=-2266/117, 3-19=0/239, 4-18=0/557,

4-17=-849/73, 3-18=-632/55, 5-16=-23/1842

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=54ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 3-11-3, Interior (1) 3-11-3 to 20-7-5, Exterior(2R) 20-7-5 to 26-0-8, Interior (1) 26-0-8 to 33-0-5, Exterior(2R) 33-0-5 to 38-5-8, Interior (1) 38-5-8 to 54-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 * This truss has been designed for a live load of 20.0psf
- 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.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) 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



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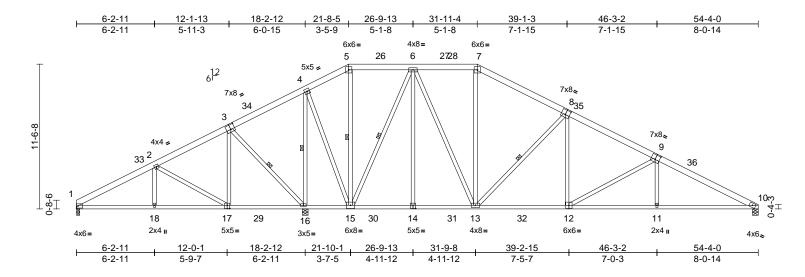
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	B04	Hip	1	1	T32352919 Job Reference (optional)	

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:06 ID:RyYJe?YtVBdOkuNrQ_KfeiyOI1i-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:91.8

Plate Offsets (X, Y): [3:0-4-0,0-4-8], [8:0-4-0,0-4-8], [9:0-4-0,0-4-8], [14:0-2-8,0-3-0], [17:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.17	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.31	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 410 lb	FT = 20%

LUMBER

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

BRACING

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

WFBS

1 Row at midpt 5-15, 6-15, 8-13, 4-16,

3-16

REACTIONS (size) 1=0-3-0, 10=0-5-8, 16=0-5-8

Max Horiz 1=211 (LC 11) Max Uplift 1=-5 (LC 12)

Max Grav 1=490 (LC 23), 10=1500 (LC 18),

16=3076 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

5-6=-59/165, 6-7=-976/200, 1-2=-643/64,

TOP CHORD

2-4=-139/884, 4-5=-70/172, 7-10=-2669/186

BOT CHORD 1-18=-175/531 16-18=-271/531

15-16=-752/129, 13-15=0/567

11-13=-31/2332, 10-11=-30/2335

WEBS 5-15=-230/0, 6-15=-1501/60, 6-14=0/280 6-13=-26/953, 7-13=0/207, 8-13=-1065/107,

8-12=0/702, 9-12=-801/85, 9-11=0/290,

4-16=-2241/97, 4-15=0/1789, 2-18=0/240,

3-17=0/567, 3-16=-861/74, 2-17=-647/76

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=54ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 5-5-3, Interior (1) 5-5-3 to 21-8-5, Exterior(2R) 21-8-5 to 29-4-9, Interior (1) 29-4-9 to 31-11-4, Exterior(2R) 31-11-4 to 39-7-8, Interior (1) 39-7-8 to 54-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 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.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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December 14,2023



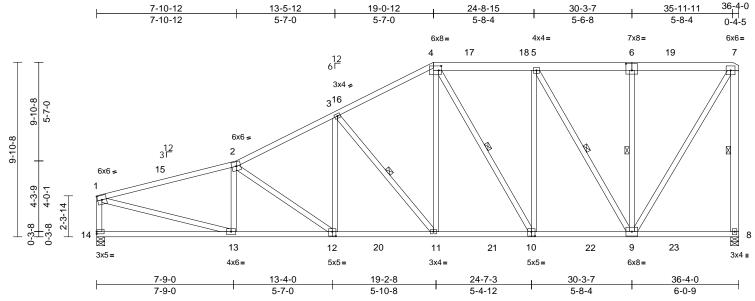
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	
1023-067	C01	Hip	1	1	T32352920 Job Reference (optional)

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:06 ID:EhF9Txuh0BZVVw7TrujScCyOHsw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:65.2

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

-												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.87	Vert(LL)	-0.16	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.29	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 286 lb	FT = 20%

LUMBER

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

BOT CHORD 2x4 SP No.2 WEBS

2x4 SP No.2 *Except* 8-7:2x6 SP No.2 **BRACING**

TOP CHORD Structural wood sheathing directly applied, except end verticals

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 3-11, 7-8, 4-10, 5-9, 6-9

REACTIONS (size) 8=0-5-8, 14=0-5-8

Max Horiz 14=278 (LC 11)

Max Uplift 8=-5 (LC 12)

Max Grav 8=1710 (LC 17), 14=1636 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=-2705/224, 2-3=-2440/263,

3-4=-1853/274, 4-5=-1414/261,

5-7=-912/210. 1-14=-1499/176.

7-8=-1576/221

BOT CHORD 13-14=-464/421, 11-13=-503/2678,

9-11=-341/1666, 8-9=-114/135

WEBS 2-13=-433/137, 2-12=-587/85, 3-12=0/570,

3-11=-837/147, 4-11=-41/884

1-13=-185/2478, 5-10=-47/601

4-10=-417/124, 5-9=-1045/157,

6-9=-356/142, 7-9=-223/1692

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-9-6, Interior (1) 3-9-6 to 19-0-12, Exterior(2R) 19-0-12 to 24-2-6, Interior (1) 24-2-6 to 36-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 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.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 8.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 14,2023



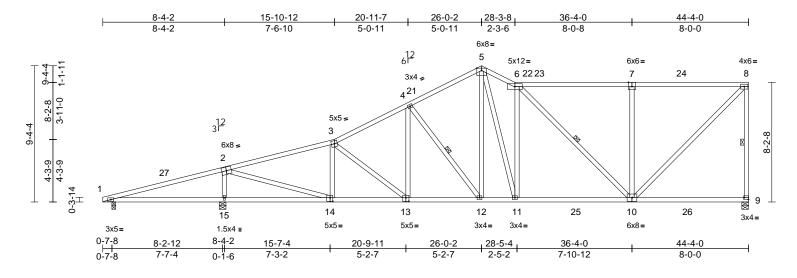
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	C02	Roof Special	1	1	Job Reference (optional)	T32352921

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:07 ID:IfmYtKulTh0jzhzQCqiwTiyOHrd-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:79.1

Plate Offsets (X, Y): [7:0-3-0,Edge], [9:Edge,0-1-8], [13:0-2-8,0-3-0], [14:0-2-4,0-3-0]

-												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.18	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.34	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 277 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied. WEBS 1 Row at midpt 8-9, 6-10, 4-12

REACTIONS 1=0-3-0, 9=0-5-8, 15=0-5-8 (size)

Max Horiz 1=249 (LC 11)

Max Uplift 9=-2 (LC 12)

Max Grav 1=256 (LC 25), 9=1622 (LC 17),

15=2137 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 3-4=-2212/239, 4-5=-1787/252,

5-6=-2029/302, 6-8=-1308/211,

8-9=-1457/194 1-3=-2253/396

BOT CHORD 1-15=-350/138, 12-15=-349/2255 11-12=-286/1596, 9-11=-289/1823

WEBS 2-15=-1810/269, 2-14=-185/2465,

3-14=-520/133. 5-11=-124/988.

6-11=-699/196, 5-12=-61/595,

7-10=-552/182, 6-10=-699/105 8-10=-194/1820, 4-13=0/408, 4-12=-654/111,

3-13=-343/73

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 4-5-3, Interior (1) 4-5-3 to 26-0-2, Exterior(2E) 26-0-2 to 28-3-8, Interior (1) 28-3-8 to 44-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 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.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 9.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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December 14,2023



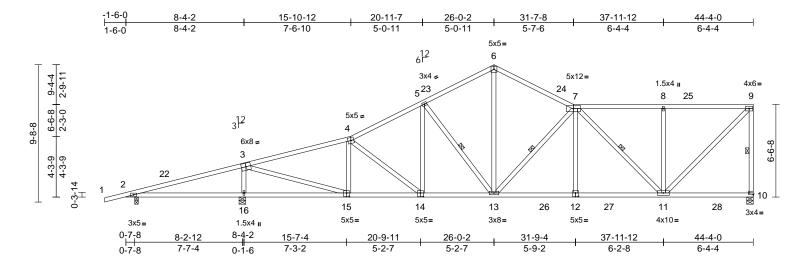
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	C03	Roof Special	1	1	Job Reference (optional)	T32352922

Run: 8 73 S. Nov 13 2023 Print: 8 730 S.Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:07 ID:_ULdn?jvbHNfQUHCMFNZQryOHo_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:81.4

Plate Offsets (X, Y): [10:Edge,0-1-8], [12:0-2-8,0-3-0], [14:0-2-8,0-3-0], [15:0-2-4,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
Loading	(psi)	Spacing	2-0-0	CSI		DELL	in	(100)	i/deli	L/u	PLAIES	GRIF
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.15	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.28	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 264 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied. except end verticals.

BOT CHORD Rigid ceiling directly applied.

WEBS 9-10, 7-11, 5-13, 7-13 1 Row at midpt

REACTIONS 2=0-3-0, 10=0-5-8, 16=0-5-8 (size)

Max Horiz 2=234 (LC 11)

Max Uplift 2=-34 (LC 12), 16=-2 (LC 12) Max Grav 2=336 (LC 23), 10=1588 (LC 17),

16=2146 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/22, 2-4=-2188/509, 4-5=-2160/261,

5-6=-1755/277, 6-7=-1776/263,

7-8=-1355/200 8-9=-1355/200

9-10=-1460/173

BOT CHORD 2-16=-456/209, 13-16=-369/2196, 11-13=-271/2088, 10-11=-79/98

3-16=-1828/276, 3-15=-206/2515,

4-15=-539/139, 7-12=0/314, 7-11=-1032/111, 8-11=-422/140, 9-11=-178/1869, 5-14=0/379

4-14=-326/62, 6-13=-111/1256, 5-13=-619/99,

7-13=-841/132

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-11-3, Interior (1) 2-11-3 to 26-0-2, Exterior(2R) 26-0-2 to 30-5-5, Interior (1) 30-5-5 to 44-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 16 and 34 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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

December 14,2023



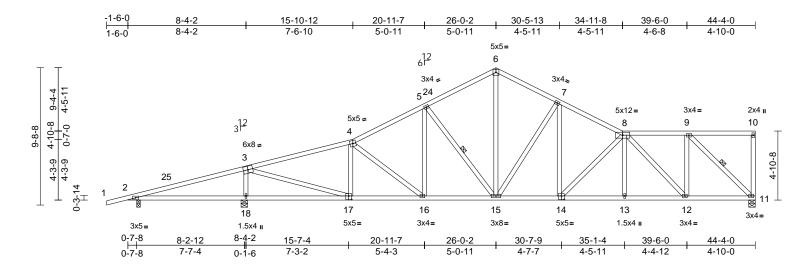
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	_	
1023-067	C04	Roof Special	1	1	Job Reference (optional)	Г32352923

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:08 ID:XtqWIzj5EAJVNT2TnMGLNxyOHex-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:81.4

Plate Offsets (X, Y): [14:0-2-8,0-3-0], [17:0-2-8,0-3-0]

-		l										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	-0.12	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.25	15-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 269 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. **BOT CHORD** Rigid ceiling directly applied. WEBS 1 Row at midpt 9-11, 5-15

REACTIONS 2=0-3-0, 11=0-5-8, 18=0-5-8 (size)

Max Horiz 2=214 (LC 11)

Max Uplift 2=-35 (LC 12), 18=-1 (LC 12)

Max Grav 2=331 (LC 23), 11=1396 (LC 1),

18=1938 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 4-5=-1953/260, 5-6=-1590/277,

6-7=-1580/271, 7-8=-1991/267,

8-9=-1269/182, 9-10=-81/76, 10-11=-124/44,

1-2=0/22, 2-4=-1984/461

BOT CHORD 2-18=-406/209, 16-18=-332/1902,

15-16=-253/1689, 13-15=-256/2080 12-13=-254/2083. 11-12=-173/1269

WFBS 3-18=-1741/277, 3-17=-208/2251,

4-17=-542/140, 8-13=0/169, 9-11=-1751/173,

5-16=0/332, 4-16=-322/60, 5-15=-572/102,

6-15=-136/1081, 7-15=-674/138,

7-14=-7/456, 8-14=-504/83, 9-12=-21/915,

8-12=-1157/116

NOTES

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-11-3, Interior (1) 2-11-3 to 26-0-2, Exterior(2R) 26-0-2 to 30-5-13, Interior (1) 30-5-13 to 44-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 18 and 35 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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December 14,2023



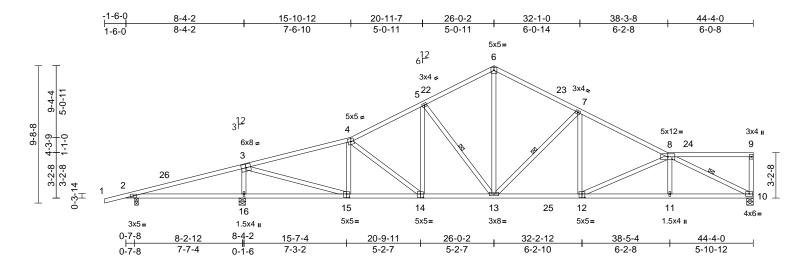
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Job	Truss	Truss Type	Qty	Ply		
1023-067	C05	Roof Special	1	1	Job Reference (optional)	T32352924

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:08 ID:ck1ti2AogEmrcWUIcnuiZYyOHbn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:81.4

Plate Offsets (X, Y): [12:0-2-8,0-3-0], [14:0-2-8,0-3-0], [15:0-2-4,0-3-0]

Loading	(nof)	Chaoina	200	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
Loading	(psf)	Spacing	2-0-0	CSI		DELL	in	(IOC)	i/deli	L/u	PLAIES	GKIF
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.19	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.35	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 249 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.

except end verticals. **BOT CHORD** Rigid ceiling directly applied.

WEBS 1 Row at midpt 8-10, 5-13, 7-13

REACTIONS 2=0-3-0, 10=0-5-8, 16=0-5-8 (size)

Max Horiz 2=195 (LC 11)

Max Uplift 2=-36 (LC 12), 16=-1 (LC 12)

Max Grav 2=318 (LC 23), 10=1529 (LC 18),

16=2153 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 4-5=-2094/257, 5-6=-1733/274,

6-7=-1733/260, 7-8=-2405/256, 8-9=-88/53, 9-10=-177/55 1-2=0/22 2-4=-2107/604

2-16=-553/209. 13-16=-464/2116

11-13=-251/2606, 10-11=-247/2616 WEBS 3-16=-1834/274, 3-15=-204/2521,

4-15=-555/138, 8-11=0/240, 8-10=-2874/234,

6-13=-110/1219, 5-14=0/364, 4-14=-307/59,

5-13=-604/109, 7-13=-883/144, 7-12=0/532,

8-12=-629/86

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-11-3, Interior (1) 2-11-3 to 26-0-2, Exterior(2R) 26-0-2 to 30-5-5, Interior (1) 30-5-5 to 44-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 16 and 36 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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December 14,2023



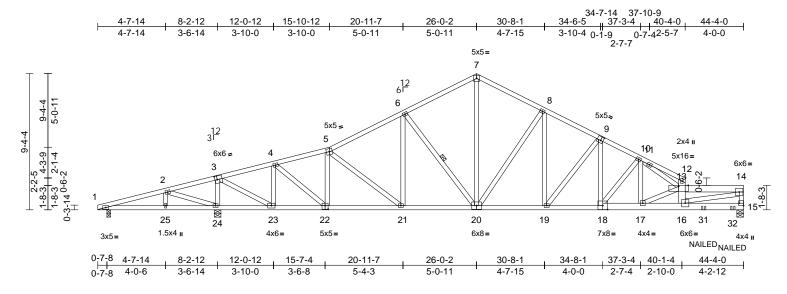
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	_	
1023-067	C06	Roof Special Girder	1	1	Job Reference (optional)	Г32352925

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:09 ID:eoxHDEFlcbufiiTJ2qzWPJyOHXo-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:79.1

Plate Offsets (X, Y): [3:0-2-0,0-3-0], [9:0-2-0,0-3-0], [15:Edge,0-3-8], [18:0-4-0,0-3-4], [22:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.15	18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.29	18-19	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.06	15	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 289 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 13-14:2x6 SP No.2 **BOT CHORD** 2x4 SP No.2 *Except* 18-15:2x6 SP No.2 2x4 SP No.2 *Except* 12-16:2x6 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-12 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 1-25,24-25 5-0-0 oc bracing: 23-24. 1 Row at midpt 6-20

WEBS REACTIONS (size) 1=0-3-0, 15=0-5-8, 24=0-5-8

Max Horiz 1=151 (LC 7)

Max Uplift 1=-85 (LC 20), 15=-137 (LC 8),

24=-17 (LC 8)

Max Grav 1=59 (LC 26), 15=1235 (LC 1),

24=2193 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-34/716. 2-4=-848/1370. 4-5=-1644/33.

5-6=-1788/69. 6-7=-1495/108. 13-16=-1103/59, 12-13=-593/39

13-14=-3138/178, 14-15=-1161/74, 7-8=-1485/109, 8-10=-2203/87, 10-11=-2545/78, 11-12=-1186/60

BOT CHORD 1-25=-664/10, 24-25=-664/10,

23-24=-1357/28, 21-23=0/1609,

19-21=0/1646, 17-19=-35/2203, 16-17=-122/2911, 15-16=-12/209

WEBS 5-22=-574/50, 5-21=-161/37, 6-21=0/250,

6-20=-508/54, 7-20=-34/1001,

14-16=-146/3052, 2-25=0/175, 2-24=-681/18, 3-24=-1891/58, 3-23=-13/2431, 4-23=-1090/47, 4-22=0/1025, 8-20=-667/65,

9-18=-1/327, 8-19=0/459, 9-19=-482/52, 10-17=-11/566, 10-18=-416/53, 13-17=-793/97, 11-13=-1449/17

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 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.
- Bearings are assumed to be: Joint 1 SP No.2, Joint 24 SP No.2, Joint 15 SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 15, 17 lb uplift at joint 24 and 85 lb uplift at joint 1.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-5=-60, 5-7=-60, 13-14=-60, 15-26=-20, 7-12=-60

Concentrated Loads (lb) Vert: 31=67 (F), 32=63 (F)



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December 14,2023



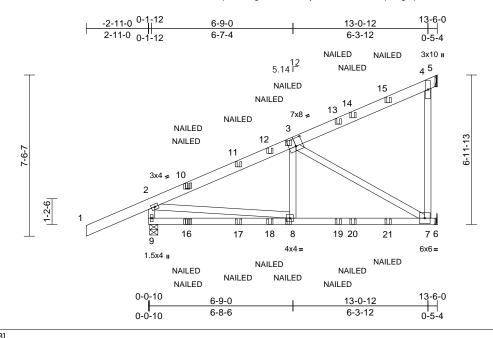
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	CJ01	Diagonal Hip Girder	1	1	Job Reference (optional)	T32352926

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:10 ID:DGp7Fk9VBg0oceMQrtlHA_yPFXV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:53.9

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

Landing	(m of)	Cunnium	2.0.0	CCI		DEEL		(100)	ا/مامدا	اد/ ا	DI ATEC	CDID
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.20	7-8	>798	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.32	7-8	>503	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.99	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 2x4 SP No.1 **BOT CHORD** 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 5= Mechanical, 6= Mechanical,

> 9=185 (LC 8) Max Horiz

Max Uplift 5=-449 (LC 8), 6=-367 (LC 1),

9=-213 (LC 8)

5=1295 (LC 13), 6=241 (LC 9), Max Grav

9=900 (LC 13)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/72, 2-4=-1125/155, 4-5=-179/510 **BOT CHORD** 8-9=-185/38, 7-8=-227/946, 6-7=0/0

2-9=-861/208, 3-8=-24/352, 4-7=-466/1217,

3-7=-1101/265, 2-8=-102/994

WEBS NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph: TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.

- Bearings are assumed to be: , Joint 9 SP No.1 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 449 lb uplift at joint 5, 213 lb uplift at joint 9 and 367 lb uplift at joint 6.
- "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS auidlines
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.25

Uniform Loads (lb/ft) Vert: 1-5=-60, 6-9=-20

Concentrated Loads (lb)

Vert: 3=-4 (B), 8=-5 (B), 10=47 (B), 12=-39 (F),

13=-42 (B), 14=-47 (F), 15=69 (B), 16=4 (F), 17=6

(B), 18=-25 (F), 19=-22 (B), 20=-209 (F), 21=-185 (B)



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December 14,2023



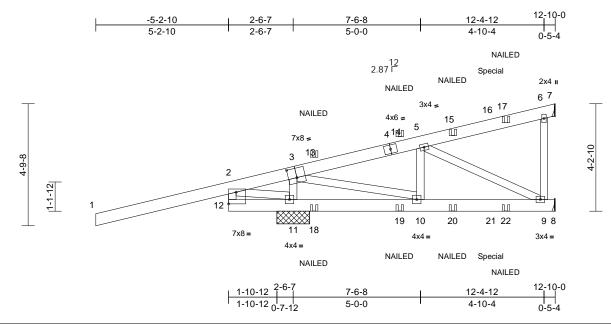
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	CJ02	Diagonal Hip Girder	1	1	Job Reference (optional)	T32352927

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:10 ID:Te6rZPgQQieDvXHHnK2ZamyPG8s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:45.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.04	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.06	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.33	Horz(CT)	-0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 101 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 3-1:2x6 SP SS 2x6 SP No.2

BOT CHORD 2x4 SP 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 6-0-0 oc

bracing, Except: 10-0-0 oc bracing: 8-9.

REACTIONS (size) 7= Mechanical, 8= Mechanical,

11=1-3-7

Max Horiz 11=134 (LC 25)

Max Uplift 7=-103 (LC 5), 8=-27 (LC 5),

11=-301 (LC 8)

7=274 (LC 1), 8=319 (LC 3), Max Grav

11=1151 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-12=-74/20, 1-2=0/75, 2-5=-500/1236,

5-6=-59/33, 6-7=-25/63

BOT CHORD 11-12=-499/226, 10-11=-1190/443,

9-10=-151/408, 8-9=0/0

WEBS 6-9=-205/110, 5-10=-327/183, 5-9=-459/169,

3-11=-752/189, 2-11=-765/362,

3-10=-459/1457

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 $\,$ plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: , Joint 11 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 7. 27 lb uplift at joint 8 and 301 lb uplift at joint 11.
- "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 217 lb down at 10-3-14 on top chord, and 260 lb down and 106 lb up at 10-3-14 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-2=-60, 2-7=-60, 8-12=-20

Concentrated Loads (lb)

Vert: 14=28 (B), 16=-88 (F), 18=-11 (F), 19=37 (B),

20=22 (B), 21=-260 (F)



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Job	Truss	Truss Type	Qty	Ply	
1023-067	D01	Half Hip Girder	1	2	T32352928 Job Reference (optional)

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:10 ID:_3qaVHSAIL9F6UmDpdh8hFyPFX6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

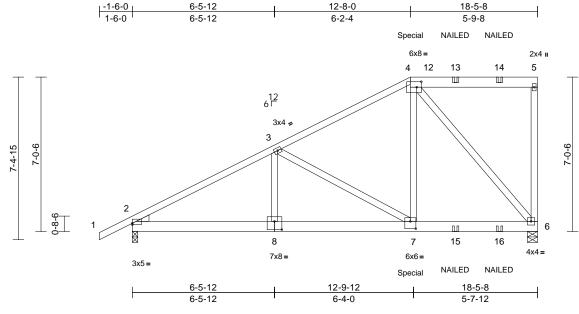


Plate Offsets (X, Y): [2:Edge,0-0-12], [4:0-2-8,0-3-0], [7:0-3-0,0-4-0], [8:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.05	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.06	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 253 lb	FT = 20%

LUMBER

Scale = 1:52.5

2x4 SP No.2 *Except* 4-5:2x6 SP No.2 TOP CHORD

BOT CHORD 2x6 SP No.2 2x4 SP No.2 WEBS WFDGF Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing

REACTIONS (size) 2=0-3-0, 6=0-5-8

Max Horiz 2=206 (LC 7)

Max Uplift 2=-357 (LC 8), 6=-1008 (LC 5)

Max Grav 2=1634 (LC 13), 6=2983 (LC 13) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/40, 2-3=-2650/642, 3-4=-2247/774,

4-5=-90/74, 5-6=-301/32

BOT CHORD 2-7=-610/2360, 6-7=-708/2002

WEBS 3-8=-23/219, 3-7=-567/172, 4-7=-633/1482, 4-6=-3030/1015

NOTES

2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

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

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 357 lb uplift at joint 2 and 1008 lb uplift at joint 6.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1355 lb down and 457 lb up at 12-8-0 on top chord, and 622 lb down and 429 lb up at 12-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-4=-60, 4-5=-60, 6-9=-20

Concentrated Loads (lb)

Vert: 7=-418 (B), 4=-1174 (B), 13=-71 (B), 14=-71 (B), 15=-273 (B), 16=-273 (B)



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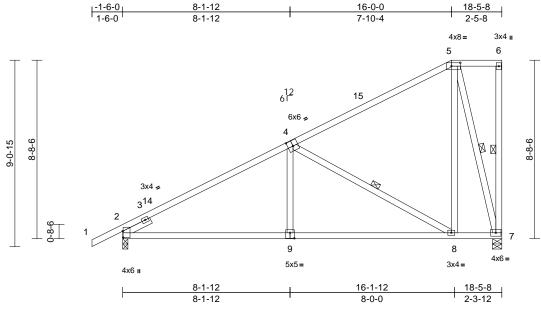
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	
1023-067	D02	Half Hip	1	1	T32352929 Job Reference (optional)

Run: 8,73 S Nov 13 2023 Print: 8,730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:11 ID:9B_ko2b4jjYhxA6KyQOjdZyPFWx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:56.1 Plate Offsets (X, Y): [2:0-3-11,0-0-3], [4:0-3-0,0-3-4], [5:0-5-4,0-2-0], [9:0-2-8,0-3-4]

											_	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.08	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.16	8-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 118 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 6-7, 4-8, 5-7

REACTIONS (size) 2=0-3-0, 7=0-5-8 Max Horiz 2=260 (LC 11)

Max Uplift 2=-30 (LC 12), 7=-17 (LC 9)

Max Grav 2=826 (LC 1), 7=729 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/40, 2-5=-1015/117, 5-6=-119/129,

6-7=-55/64

BOT CHORD 2-8=-330/838, 7-8=-119/242

WEBS 4-9=0/337, 4-8=-736/106, 5-8=-18/539,

5-7=-760/146

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 16-0-0, Exterior(2E) 16-0-0 to 18-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 7 and 30 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	_	
1023-067	D03	Monopitch	1	1	Job Reference (optional)	Г32352930

Run: 8 73 S. Nov 13 2023 Print: 8 730 S.Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:11 ID:tN7xTHw0M0ysgKgW1bN2DGyPFWW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffraction and the property of the p Page: 1

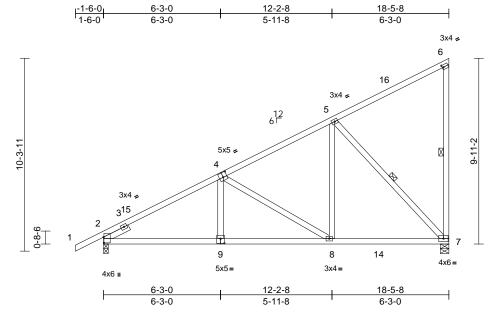


Plate Offsets (X, Y): [2:0-3-11,0-0-3], [4:0-2-8,0-3-0], [6:0-0-13,0-1-8], [9:0-2-8,0-3-0]

-												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.06	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.10	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 114 lb	FT = 20%

LUMBER

Scale = 1:61.6

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

Left 2x4 SP No.2 -- 1-6-0 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals

BOT CHORD Rigid ceiling directly applied. WEBS 1 Row at midpt 6-7, 5-7

REACTIONS (size) 2=0-3-0, 7=0-5-8 Max Horiz 2=294 (LC 11)

Max Uplift 2=-28 (LC 12), 7=-15 (LC 9)

Max Grav 2=900 (LC 17), 7=885 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 6-7=-152/106, 1-2=0/40, 2-5=-1170/127,

5-6=-178/133

BOT CHORD 2-8=-388/1085, 7-8=-191/624

WEBS 5-7=-863/147, 4-9=0/225, 4-8=-533/123,

5-8=-3/535

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 18-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 7 and 28 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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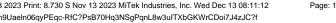
December 14,2023



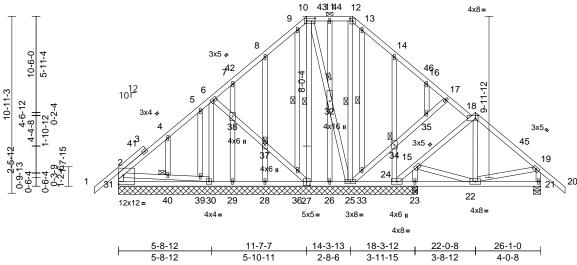
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:12 ID:bzvED6wdbO_9n9UaeIn06qyPEqc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:71.2

LUMBER

Plate Offsets (X, Y): [10:0-6-4,0-2-0], [12:0-2-0,0-1-13], [18:0-2-0,0-2-4], [27:0-2-8,0-3-0], [31:Edge,0-6-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.02	30-31	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.04	30-31	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	21	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 295 lb	FT = 20%

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

2x4 SP No.2 OTHERS **BRACING**

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

(10-0-0 max.): 10-12, 18-24. BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 10-27, 12-25, 13-33, 9-36

JOINTS 1 Brace at Jt(s): 32,

34, 37, 40

REACTIONS (size) 21=0-5-8, 23=0-3-8, 24=18-5-8, 25=18-5-8, 26=18-5-8, 27=18-5-8,

31=18-5-8

Max Horiz 31=238 (LC 11) Max Uplift 21=-26 (LC 12), 24=-130 (LC 12),

27=-6 (LC 12), 28=-36 (LC 12), 29=-28 (LC 12), 31=-18 (LC 12) Max Grav 21=414 (LC 24), 23=210 (LC 3),

24=291 (LC 18), 25=322 (LC 1), 26=94 (LC 24), 27=173 (LC 17), 28=223 (LC 17), 29=21 (LC 23), 30=356 (LC 23), 31=303 (LC 23)

28=18-5-8, 29=18-5-8, 30=18-5-8,

FORCES TOP CHORD

(lb) - Maximum Compression/Maximum

Tension

1-2=0/56, 2-4=-128/107, 4-5=-87/144, 5-6=-64/133, 6-7=-74/94, 7-8=-59/134,

8-9=-46/111, 9-10=-46/125, 10-11=-44/112, 11-12=-44/112, 18-19=-268/11, 19-20=0/63, 2-31=-240/70, 19-21=-373/56,

12-13=-44/121, 13-14=-45/110, 14-16=0/131, 16-17=-11/79, 17-18=-74/26, 15-24=-62/89,

15-18=-169/36

BOT CHORD 30-31=-137/320, 29-30=-133/136, 28-29=-133/136, 26-28=-133/187, 25-26=-129/187, 24-25=-78/144, 23-24=-36/76, 22-23=-36/76, 21-22=0/53 WEBS

6-30=-163/3, 6-38=-56/65, 37-38=-57/67 36-37=-54/66, 27-36=-72/79, 10-27=-68/0, 10-32=-63/0, 25-32=-69/0, 12-25=-118/0, 25-33=-126/55, 33-34=-95/49, 34-35=-124/58, 17-35=-94/46, 2-40=-255/121, 39-40=-258/122, 30-39=-275/129. 11-32=-87/2. 26-32=-81/2.

13-33=-47/14, 14-34=-178/103, 24-34=-222/118. 16-35=-46/19. 9-36=-44/22. 8-37=-155/92, 28-37=-166/95, 7-38=-43/24,

29-38=-40/21, 5-39=-52/23, 4-40=-43/17 18-22=0/118. 19-22=-10/104. 15-23=-129/0. 15-22=0/125

NOTES

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 11-7-7, Exterior(2E) 11-7-7 to 14-5-9, Exterior(2R) 14-5-9 to 18-8-8, Interior (1) 18-8-8 to 27-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 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.
- 11) All bearings are assumed to be SP No.2
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 31, 6 lb uplift at joint 27, 26 lb uplift at joint 21, 130 lb uplift at joint 24, 36 lb uplift at joint 28 and 28 lb uplift at ioint 29.
- 13) This truss design requires that a minimum of 7/16"



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Job	Truss	Truss Type	Qty	Ply	
1023-067	G02	Attic	14	1	T32352932 Job Reference (optional)

Run: 8.73 S. Nov.13.2023 Print: 8.730 S.Nov.13.2023 MiTek Industries. Inc. Wed Dec 13.08:11:12. ID:ho?Jxd9ASKfgNfTGUZ_TgEyPEg_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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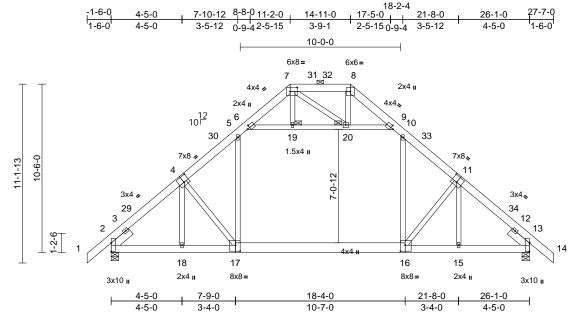


Plate Offsets (X, Y): [2:Edge,0-0-0], [4:0-4-0,0-4-8], [6:0-2-1,0-2-0], [7:0-5-4,0-3-0], [9:0-2-1,0-2-0], [11:0-4-0,0-4-8], [13:Edge,0-0-0], [16:0-3-8,0-4-8], [17:0-3-8,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.15	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.23	16-17	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Attic	-0.12	16-17	>999	360	Weight: 235 lb	FT = 20%

LUMBER

BRACING

Scale = 1:71.8

TOP CHORD 2x6 SP No.2

2x6 SP No.2 *Except* 17-16:2x8 SP 2400F BOT CHORD

2.0E

WFBS 2x4 SP No 2

SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2

-- 1-6-0

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (6-0-0 max.): 7-8.

BOT CHORD Rigid ceiling directly applied.

JOINTS 1 Brace at Jt(s): 19,

20

REACTIONS (size) 2=0-5-8, 13=0-5-8 Max Horiz 2=-214 (LC 10)

Max Grav 2=1525 (LC 18), 13=1525 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/58, 2-5=-1768/0, 5-6=-1207/0,

TOP CHORD 6-7=-396/66, 7-8=-255/75, 8-9=-389/63

> 9-10=-1207/0. 10-13=-1767/0. 13-14=0/58 2-18=0/1368, 15-18=0/1367, 13-15=0/1215

WEBS 5-17=0/766, 10-16=0/763, 6-19=-1137/0,

19-20=-1133/0, 9-20=-1148/0, 11-15=-375/29,

11-16=-156/285, 4-18=-377/26,

4-17=-156/285, 7-19=0/61, 8-20=-16/115,

7-20=-120/104

NOTES

BOT CHORD

1) Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 11-2-0, Exterior(2E) 11-2-0 to 14-11-0, Exterior(2R) 14-11-0 to 19-1-15, Interior (1) 19-1-15 to 27-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-19, 19-20, 9-20; Wall dead load (5.0psf) on member (s).5-17. 10-16
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-17
- All bearings are assumed to be SP No.2.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



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

December 14,2023



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



Job	Truss	Truss Type	Qty	Ply	
1023-067	G03	Attic	1	1	T32352933 Job Reference (optional)

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:13 ID:dPXBFZAwP1G9V2zo5RP0J2yPEYD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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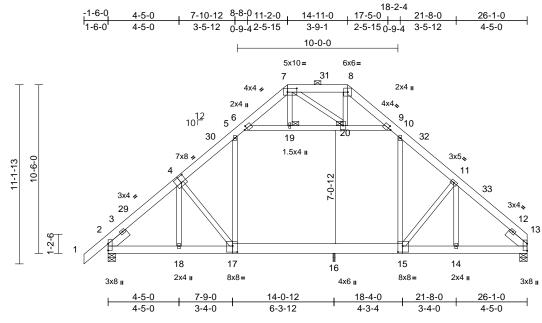


Plate Offsets (X, Y): [2:Edge,0-0-0], [4:0-4-0,0-4-8], [6:0-2-1,0-2-0], [7:0-7-0,0-2-12], [9:0-2-1,0-2-0], [13:Edge,0-0-0], [15:0-3-8,0-4-8], [17:0-3-8,0-4-8]

-												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.10	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.15	17-18	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Attic	-0.08	15-16	>999	360	Weight: 231 lb	FT = 20%

LUMBER

Scale = 1:71.7

TOP CHORD 2x6 SP No.2

2x6 SP No.2 *Except* 17-15:2x8 SP 2400F BOT CHORD

2.0E

WFBS 2x4 SP No 2

SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2

-- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (6-0-0 max.): 7-8.

BOT CHORD Rigid ceiling directly applied.

JOINTS 1 Brace at Jt(s): 19, 20

REACTIONS (size) 2=0-5-8, 13=0-5-8, 16=0-1-8

Max Horiz 2=205 (LC 11)

Max Grav 2=1203 (LC 18), 13=1021 (LC 18),

16=813 (LC 16)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/58, 2-5=-1333/0, 5-6=-821/42,

6-7=-404/63, 7-8=-213/76, 8-9=-314/56,

9-10=-884/54, 10-11=-1160/17,

11-13=-1205/0

2-18=-14/1074, 16-18=0/1074, 14-16=0/916, **BOT CHORD**

13-14=0/861

5-17=0/374, 10-15=-16/257, 6-19=-601/26 19-20=-599/28, 9-20=-803/32, 4-18=-29/127.

4-17=-256/89, 11-14=-133/149

11-15=-263/132, 7-19=-3/102, 8-20=-47/61,

7-20=-246/29

NOTES

WFBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 11-2-0, Exterior(2E) 11-2-0 to 14-11-0, Exterior(2R) 14-11-0 to 19-1-15, Interior (1) 19-1-15 to 26-1-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-19, 19-20, 9-20; Wall dead load (5.0psf) on member (s).5-17. 10-15
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-17,
- Bearings are assumed to be: Joint 2 SP No.2, Joint 16 SP 2400F 2.0E , Joint 13 SP No.2 .
- 10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



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December 14,2023



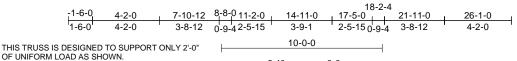
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

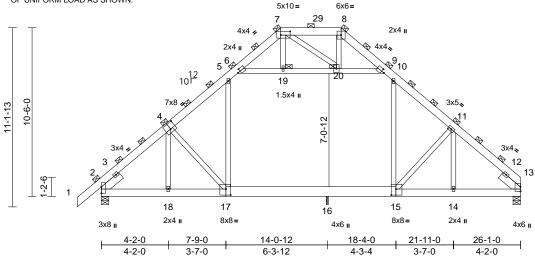


Job	Truss	Truss Type	Qty	Ply	_	
1023-067	G04	Attic Girder	1	2	Job Reference (optional)	Г32352934

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:13 ID:9zH7NBX4dveGe4nWOk1wo1yOlsf-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:71.7

Plate Offsets (X, Y): [2:Edge,0-0-0], [4:0-4-0,0-4-8], [6:0-2-1,0-2-0], [7:0-7-0,0-2-12], [9:0-2-1,0-2-0], [15:0-3-8,0-4-8], [17:0-3-8,0-4-8]

Loading	(psf)	Spacing	3-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.08	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.12	17-18	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.02	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Attic	-0.06	15-16	>999	360	Weight: 461 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2

2x6 SP No.2 *Except* 17-15:2x8 SP 2400F BOT CHORD

2.0E

WFBS 2x4 SP No 2

SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2

-- 1-6-0

BRACING

TOP CHORD

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

(Switched from sheeted: Spacing > 2-0-0). BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing.

JOINTS 1 Brace at Jt(s): 7,

8, 19, 20

REACTIONS (size) 2=0-5-8, 13=0-5-8, 16=0-1-8

Max Horiz 2=307 (LC 7)

2=1801 (LC 14), 13=1529 (LC 14), Max Grav

16=1225 (LC 12)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/86, 2-5=-1995/0, 5-6=-1232/46,

6-7=-594/56, 7-8=-302/86, 8-9=-457/52,

9-10=-1323/40. 10-11=-1746/0. 11-13=-1796/0

2-18=-10/1611, 16-18=0/1611, 14-16=0/1373, **BOT CHORD**

13-14=0/1280

4-18=-51/184, 4-17=-360/131, 5-17=0/547,

10-15=-2/389, 11-15=-373/200, 11-14=-206/213, 6-19=-910/42,

19-20=-907/45, 9-20=-1208/37, 7-19=0/154,

8-20=-65/80, 7-20=-350/37

NOTES

WFBS

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: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0

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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-19, 19-20, 9-20; Wall dead load (5.0psf) on member (s).5-17, 10-15
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-17, 15-16
- 11) Bearings are assumed to be: Joint 2 SP No.2, Joint 16 SP 2400F 2.0E, Joint 13 SP No.2.

- 12) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



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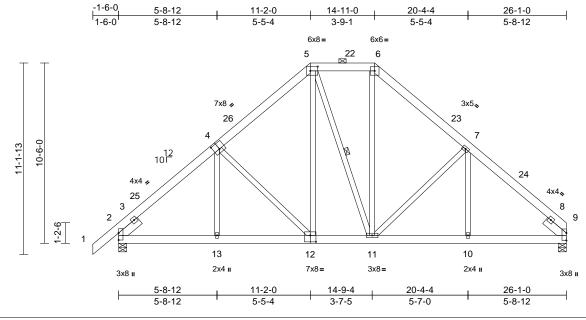




Job	Truss	Truss Type	Qty	Ply	_	
1023-067	G05	Piggyback Base	1	1	Job Reference (optional)	T32352935

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:14 ID:6Xhj?aKf?UUw7vqv0?1ZpeyOldQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:67.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
Loading	(þsi)	Spacing	2-0-0	COI		DEFL	111	(IUC)	i/ueii	L/u	FLAILS	GRIF
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	-0.03	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.06	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 231 lb	FT = 20%

LUMBER

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

SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2

-- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (6-0-0 max.): 5-6. **BOT CHORD** Rigid ceiling directly applied. WFBS 1 Row at midpt 5-11

REACTIONS 2=0-5-8, 9=0-5-8 (size)

Max Horiz 2=205 (LC 11)

Max Uplift 2=-38 (LC 12)

Max Grav 2=1136 (LC 1), 9=1041 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 5-6=-677/124, 6-7=-985/126, 7-9=-1240/55,

1-2=0/58, 2-5=-1232/113

BOT CHORD 2-13=-41/892, 11-13=0/892, 10-11=0/867,

9-10=-7/867

WEBS 4-13=0/183, 4-12=-305/90, 5-12=-10/319,

5-11=-101/121, 6-11=-23/325, 7-11=-315/94,

7-10=0/184

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 11-2-0, Exterior(2E) 11-2-0 to 14-11-0, Exterior(2R) 14-11-0 to 19-1-15, Interior (1) 19-1-15 to 26-1-0 zone; cantilever left and right exposed: end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to
- 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



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 14,2023



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

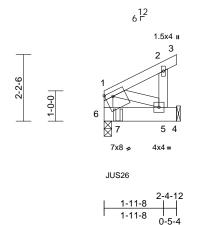


Job	Truss	Truss Type	Qty	Ply	
1023-067	G06	Jack-Open Girder	1	1	T32352936 Job Reference (optional)

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:14 ID:mF6uG7Bk_SI?69WgJSHfosyOHQ7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:38.1

Plate Offsets (X, Y): [6:Edge,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	0.00	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	0.00	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 15 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-4-12 oc purlins, except end verticals.

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

bracing.

REACTIONS 4= Mechanical, 6=0-3-0 (size)

Max Horiz 6=43 (LC 8)

Max Grav 4=191 (LC 1), 6=682 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-6=-51/0, 1-2=-26/26, 2-3=-12/0 5-6=-36/16, 4-5=0/0

BOT CHORD

WEBS 2-5=-84/33, 1-5=-17/39

NOTES

FORCES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: Joint 6 SP No.2.
- 6) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.

- 8) Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 0-5-8 from the left end to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.25 Uniform Loads (lb/ft) Vert: 1-3=-60, 4-6=-20

Concentrated Loads (lb) Vert: 7=-694 (F)

Julius Lee PE No. 34869

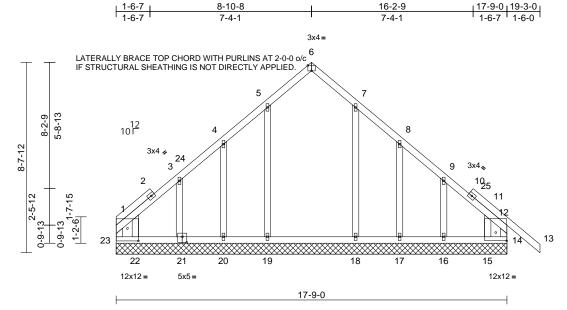
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Job	Truss	Truss Type	Qty	Ply		
1023-067	H01	Common Supported Gable	1	1	Job Reference (optional)	T32352937

Run: 9.04 S 8.73 Nov 16.2023 Print: 8.730 S Nov 16.2023 MiTek Industries. Inc. Thu Dec 14.11:53:52 ID:_Lxskz_GCvjcjyxXu5CDKYyOH71-Tv9M0J_aQi_nHBJmmQ4jY4ZyLRtykuZb54cCVhy9EUT

Page: 1



Scale = 1:52.3 Plate Offsets (X, Y): [6:0-2-0,Edge], [14:0-6-0,0-4-8], [21:0-2-8,0-3-0], [23:0-6-0,0-6-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	n/a	` -	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 114 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS All bearings 17-9-0.

(lb) - Max Horiz 23=-180 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 14, 16, 17, 20, 21, 23 except

15=-139 (LC 12), 22=-124 (LC 12)

Max Grav All reactions 250 (lb) or less at joint (s) 15, 16, 17, 20, 21, 22, 23 except

14=312 (LC 17), 18=301 (LC 18), 19=316 (LC 17)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-23=-278/92. 11-12=-253/101.

12-14=-268/63

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-3-14 to 3-3-14, Exterior(2N) 3-3-14 to 8-10-8, Corner(3R) 8-10-8 to 11-10-8, Exterior(2N) 11-10-8 to 19-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1.5x4 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.
- 10) * 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 23, 14, 20, 21, 17, 16 except (jt=lb) 22=123, 15=139.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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

December 14,2023



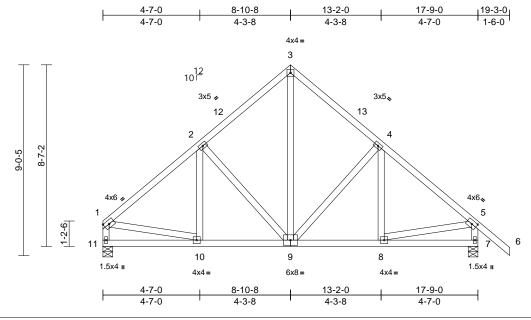
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	H02	Common	1	1	Job Reference (optional)	352938

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:15 ID:Tu8NnN0CxKYP1AV3x9INphyOH5h-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:54.5

Plate Offsets (X, Y): [5:0-2-14,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	-0.01	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.03	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 122 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD

Rigid ceiling directly applied. REACTIONS 7=0-5-8, 11=0-5-8 (size)

Max Horiz 11=-190 (LC 10)

Max Uplift 7=-41 (LC 12)

Max Grav 7=802 (LC 1), 11=694 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-752/55, 2-3=-577/117, 3-4=-576/115,

4-5=-746/53, 5-6=0/63, 1-11=-648/44,

5-7=-757/93

BOT CHORD 10-11=-136/241, 8-10=0/570, 7-8=0/85 **WEBS** 1-10=0/432, 5-8=0/463, 2-10=-8/110,

2-9=-245/84, 3-9=-63/391, 4-9=-230/83,

4-8=-15/108

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 8-10-8, Exterior(2R) 8-10-8 to 11-10-8, Interior (1) 11-10-8 to 19-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 14,2023



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



Ply Job Truss Truss Type Qty T32352939 1023-067 H₀3 1 Piggyback Base Structural Gable 1 Job Reference (optional)

3-6-7

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:15

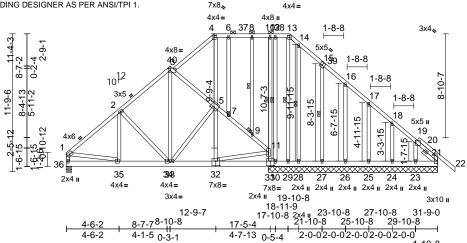
0-4-1

1-6-7

ID:?Lpzf6Na2XjJZJDI7J49a1_49/yOGt1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 31-9-0 29-10-8 13-10-8 1 15-10-8 17-5-4 21-10-8 8 19-1-5 22-0-1225-10-8 <u>8-10-8</u>9-1-4 17-3-8 19-10-8 23-10-8 -0 0-9-3 0-2-4 2-12-9-7 0-1-122-0-0 0-1-122-0-0 0-1-12213 0-1-1213 0 27-10-8 30-2-933-3-0 2-0-02-0-02-0-0 1-6-0 12-9-7

4-4-6 0-2-12 4-6-2 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

4-6-2



Scale = 1:98.6

3-10-15 Plate Offsets (X, Y): [3:0-2-0,0-2-4], [4:0-2-0,0-1-13], [5:0-4-0,0-2-0], [13:0-2-0,0-1-13], [15:0-2-8,0-3-0], [1901 4.8 [Edge], [21:0-2-8,0-0-1], [31:0-4-0,0-4-8], [32:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	-0.01	34-35	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.03	34-35	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	21	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 344 lb	FT = 20%

1-1-1

BOT CHORD

LUMBER

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

Right 2x4 SP No.2 -- 1-6-0 SLIDER

BRACING

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

(6-0-0 max.): 4-13, 3-11.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 13-29, 8-9, 12-30, 14-28,

15-27, 10-31

JOINTS 1 Brace at Jt(s): 9,

REACTIONS (size) 21=14-5-8, 23=14-5-8, 24=14-5-8,

25=14-5-8, 26=14-5-8, 27=14-5-8,

28=14-5-8, 29=14-5-8, 30=14-5-8,

31=14-5-8 36=0-5-8

Max Horiz 36=-242 (LC 10)

Max Uplift 23=-65 (LC 12), 24=-26 (LC 12), 25=-33 (LC 12), 26=-30 (LC 12),

27=-39 (LC 12), 28=-6 (LC 12),

30=-285 (LC 3)

Max Grav 21=210 (LC 24), 23=163 (LC 18),

24=170 (LC 18), 25=172 (LC 18), 26=164 (LC 18), 27=181 (LC 18),

28=120 (LC 18), 29=73 (LC 12),

30=-48 (LC 12), 31=1021 (LC 23),

36=683 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-748/38, 2-3=-571/97, 4-6=-84/127, 6-8=-84/127, 8-10=-84/127, 10-12=-84/128,

12-13=-84/128, 13-14=-104/148,

14-16=-92/125, 16-17=-58/49, 17-18=-71/69, 18-19=-117/88, 19-21=-174/130, 21-22=0/47,

1-36=-632/28, 3-4=-108/130, 3-5=-512/79, 5-7=-601/38, 7-9=-625/39, 9-11=-638/46

BOT CHORD 35-36=-175/300, 34-35=0/624, 33-34=0/461, 30-33=-109/544, 29-30=-109/171,

28-29=-109/172, 27-28=-109/172, 26-27=-108/171, 25-26=-108/171,

24-25=-108/171, 23-24=-108/171, 21-23=-115/176

4-5=-199/1, 13-29=-63/40, 8-9=-23/11,

6-7=-63/12, 12-30=-43/0, 14-28=-93/38, 16-26=-125/57, 17-25=-132/61, 18-24=-128/52, 19-23=-114/69,

15-27=-139/80, 3-33=0/393, 5-32=-60/65, 5-33=-160/0, 11-32=-31/494, 2-35=-5/114

2-34=-240/77. 1-35=0/409. 11-31=-695/82.

10-11=-186/42

NOTES

WFBS

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-3-14, Interior (1) 3-3-14 to 12-7-11, Exterior(2R) 12-7-11 to 15-10-8, Interior (1) 15-10-8 to 19-1-5, Exterior(2R) 19-1-5 to 22-3-7, Interior (1) 22-3-7 to 33-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding. All plates are 1.5x4 MT20 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.

All bearings are assumed to be SP No.2

1-10-8

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 285 lb uplift at joint 30, 6 lb uplift at joint 28, 30 lb uplift at joint 26, 33 lb uplift at joint 25, 26 lb uplift at joint 24, 65 lb uplift at joint 23 and 39 lb uplift at joint 27.

Page: 1

- 10) This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) 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



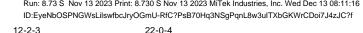
MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017





Job	Truss	Truss Type	Qty	Ply		
1023-067	H04	Attic	2	1	Job Reference (optional)	Г32352940

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:16



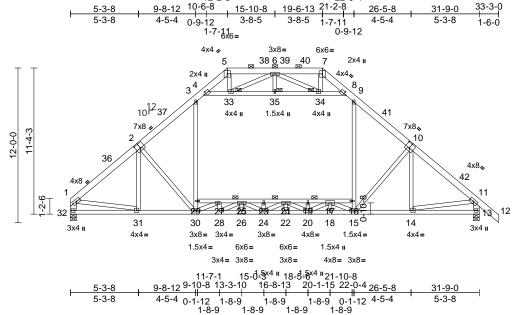


Plate Offsets (X, Y): [2:0-4-0,0-4-8], [4:0-2-1,0-2-0], [8:0-2-1,0-2-0], [10:0-4-0,0-4-8], [22:0-3-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.22	30-31	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.32	23-25	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.08	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Attic	-0.20	16-29	>755	360	Weight: 293 lb	FT = 20%

LUMBER

Scale = 1:89.5

TOP CHORD 2x6 SP No.2

2x4 SP No.2 *Except* 22-13,26-22:2x4 SP BOT CHORD

No.1

WFBS 2x4 SP No.2 *Except* 32-1,13-11:2x6 SP

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.

BOT CHORD Rigid ceiling directly applied. **JOINTS** 1 Brace at Jt(s): 33,

34.35

REACTIONS (size) 13=0-5-8, 32=0-5-8

Max Horiz 32=-251 (LC 10)

Max Grav 13=1916 (LC 19), 32=1815 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-2193/0, 3-4=-1503/0, 4-5=-623/46,

5-6=-495/54, 6-7=-492/51, 7-8=-621/46, 8-9=-1506/0. 9-11=-2184/0. 11-12=0/66.

1-32=-1756/0. 11-13=-1855/0

BOT CHORD 31-32=-96/376, 30-31=0/1782, 28-30=0/2689,

24-28=0/3319, 20-24=0/3694, 18-20=0/2458,

15-18=0/2458, 14-15=0/1584, 13-14=0/233, 27-29=-62/156, 25-27=-1113/0,

23-25=-2436/0. 21-23=-2436/0. 19-21=-2020/0, 17-19=-2020/0,

16-17=-63/156

WEBS

29-30=0/767, 3-29=0/858, 15-16=0/749, 9-16=0/857, 4-33=-1411/0, 33-35=-1009/0, 34-35=-1009/0, 8-34=-1417/0, 2-31=-230/17, 10-14=-243/19, 10-15=-233/129,

2-30=-251/129, 1-31=0/1430, 11-14=0/1414, 5-33=-1/321, 7-34=-1/323, 6-35=0/77, 6-33=-522/37, 6-34=-527/41, 27-28=0/344, 25-26=-1/66, 23-24=-220/0, 21-22=-33/28,

19-20=-206/0, 17-18=-216/55, 15-17=-1271/0. 17-20=0/1072. 20-21=-390/0. 21-24=-29/163, 24-25=0/539, 25-28=-946/0.

27-30=-1327/0

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-12 to 3-4-14, Interior (1) 3-4-14 to 12-2-3, Exterior(2R) 12-2-3 to 16-8-1, Interior (1) 16-8-1 to 19-6-13, Exterior(2R) 19-6-13 to 24-0-11, Interior (1) 24-0-11 to 33-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-33, 33-35, 34-35, 8-34

Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-29, 25-27, 23-25, 21-23, 19-21, 17-19, 16-17

Page: 1

- Bearings are assumed to be: Joint 32 SP No.2, Joint 13 SP No.1
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



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





Job	Truss	Truss Type	Qty	Ply	
1023-067	H05	Attic	2	1	2352941

12-0-3

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

Run: 8,73 S Nov 13 2023 Print: 8,730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:17 ID:YTnRcHA5hCXa?hALpBf8c?yOGkF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

21-10-4

Page: 1

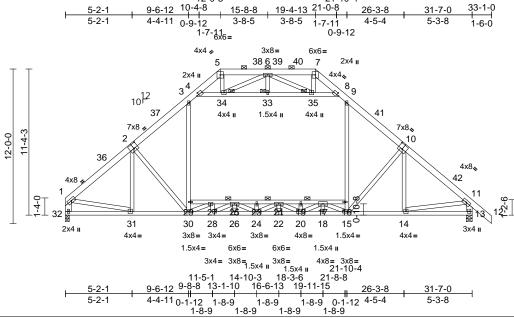


Plate Offsets (X, Y): [2:0-4-0,0-4-8], [4:0-2-1,0-2-0], [8:0-2-1,0-2-0], [10:0-4-0,0-4-8], [22:0-3-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.22	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.32	19	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.08	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Attic	-0.19	16-29	>761	360	Weight: 293 lb	FT = 20%

LUMBER TOP CHORD

Scale = 1:89.5

2x6 SP No.2

2x4 SP No.2 *Except* 22-13,26-22:2x4 SP BOT CHORD

No.1

WFBS 2x4 SP No.2 *Except* 32-1,13-11:2x6 SP

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied,

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

(6-0-0 max.): 5-7.

BOT CHORD Rigid ceiling directly applied. **JOINTS**

1 Brace at Jt(s): 33,

34.35

REACTIONS (size) 13=0-5-8, 32=0-3-8 Max Horiz 32=-253 (LC 10)

Max Grav 13=1907 (LC 19), 32=1812 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-2125/0. 3-4=-1493/0. 4-5=-620/47.

5-6=-487/55, 6-7=-501/49, 7-8=-626/45, 8-9=-1489/0. 9-11=-2174/0. 11-12=0/66.

1-32=-1753/0. 11-13=-1847/0

BOT CHORD 31-32=-120/340, 30-31=0/1731

28-30=0/2652, 24-28=0/3294, 20-24=0/3686, 18-20=0/2465, 15-18=0/2465, 14-15=0/1577,

13-14=0/228, 27-29=-52/165, 25-27=-1097/0,

23-25=-2434/0, 21-23=-2434/0,

19-21=-2029/0, 17-19=-2029/0,

16-17=-69/144

WEBS

29-30=0/739, 3-29=0/835, 15-16=0/750, 9-16=0/858, 4-34=-1405/0, 33-34=-995/0, 33-35=-995/0, 8-35=-1383/0, 6-33=0/77, 5-34=0/325, 7-35=-2/316, 6-34=-531/35 6-35=-513/43, 10-14=-237/20, 2-31=-279/11, 2-30=-212/148, 10-15=-241/126, 1-31=0/1424, 11-14=0/1412, 27-28=0/339, 25-26=0/68, 23-24=-220/0, 21-22=-32/29,

19-20=-206/0, 17-18=-203/61, 15-17=-1282/0. 17-20=0/1061. 20-21=-385/0.

21-24=-34/153, 24-25=0/545, 25-28=-957/0.

27-30=-1320/0

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-12 to 3-6-10, Interior (1) 3-6-10 to 12-2-3, Exterior(2R) 12-2-3 to 16-7-13, Interior (1) 16-7-13 to 19-6-13, Exterior(2R) 19-6-13 to 24-0-6, Interior (1) 24-0-6 to 33-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-34, 33-34, 33-35, 8-35

- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-29, 25-27, 23-25, 21-23, 19-21, 17-19, 16-17
- Bearings are assumed to be: Joint 32 SP No.2, Joint 13 SP No.1
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



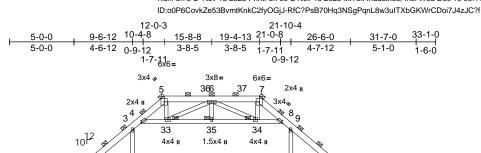
MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

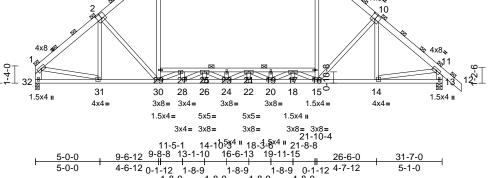




Job	Truss	Truss Type	Qty	Ply	
1023-067	H06	Attic Girder	1	2	T32352942 Job Reference (optional)

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:18





Scale = 1:89.5

Plate Offsets (X, Y): [2:0-4-0,0-4-8], [4:0-1-9,0-1-8], [8:0-1-9,0-1-8], [10:0-4-0,0-4-8], [22:0-2-8,0-3-0], [26:0-2-8,0-3-0]

7x8

Loading	(psf)	Spacing	2-7-8	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.15	1 4 -15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.22	19	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.05	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Attic	-0.14	16-29	>999	360	Weight: 584 lb	FT = 20%

LUMBER TOP CHORD

TOP CHORD

2x6 SP No.2 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 32-1,13-11:2x6 SP WEBS

BRACING

12-0-0

2-0-0 oc purlins (6-0-0 max.), except end verticals

(Switched from sheeted: Spacing > 2-0-0). BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc

bracing.

JOINTS 1 Brace at Jt(s): 5,

7, 33, 34, 35, 1, 11

REACTIONS (size) 13=0-5-8, 32=0-3-8

Max Horiz 32=-331 (LC 6)

Max Grav 13=2503 (LC 15), 32=2378 (LC 14)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-2776/0. 3-4=-1962/0. 4-5=-792/0.

5-6=-619/50, 6-7=-633/49, 7-8=-804/0, 8-9=-1956/0, 9-11=-2841/0, 11-12=0/87,

1-32=-2309/0, 11-13=-2434/0

BOT CHORD 31-32=-201/385, 30-31=0/2271

28-30=0/3488, 24-28=0/4319, 20-24=0/4816,

18-20=0/3223, 15-18=0/3223, 14-15=0/2065, 13-14=0/231, 27-29=-76/231, 25-27=-1432/0,

23-25=-3208/0, 21-23=-3208/0,

19-21=-2678/0, 17-19=-2678/0,

16-17=-99/206

WEBS

2-31=-389/1, 2-30=-269/201, 29-30=0/962, 3-29=0/1094, 15-16=0/970, 9-16=0/1117, 10-15=-299/162, 10-14=-320/11,

4-33=-1856/0, 33-35=-1319/0,

34-35=-1319/0, 8-34=-1829/0, 5-33=0/425, 7-34=0/415, 6-35=0/101, 6-34=-672/36, 6-33=-693/38, 1-31=0/1938, 11-14=0/1927,

27-28=0/439, 25-26=-3/85, 23-24=-306/0, 21-22=-56/29, 19-20=-290/0, 17-18=-260/70, 15-17=-1682/0, 17-20=0/1421, 20-21=-462/0,

21-24=-30/242, 24-25=0/749, 25-28=-1245/0,

27-30=-1730/0

NOTES

1) 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: 2x4 - 1 row at 0-9-0 oc.

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.

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

Page: 1

- * 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) Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-33, 33-35, 34-35, 8-34
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-29, 25-27, 23-25, 21-23, 19-21, 17-19, 16-17
- 12) All bearings are assumed to be SP No.2.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



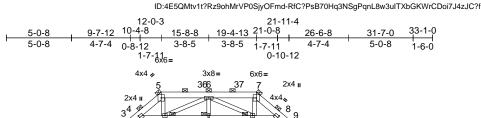
Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

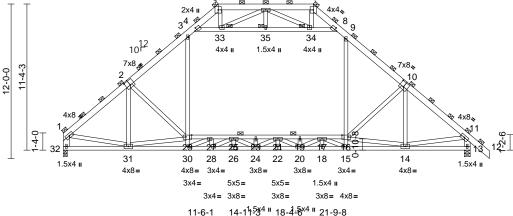




Job	Truss	Truss Type	Qty	Ply	
1023-067	H07	Attic Girder	1	2	T32352943 Job Reference (optional)

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:19





20-0-15 2<u>1-11-4₂₆₋₆₋₈</u> 13-2-10 9-9-8 16-7-13 1-8-9 1-8-9 1-8-9 U-. 1-8-9 5-0-8 0-1-12 0-1-12 1-8-9

Scale = 1:89.5

BRACING

Plate Offsets (X, Y): [2:0-4-0,0-4-8], [4:0-2-1,0-2-0], [8:0-2-1,0-2-0], [10:0-4-0,0-4-8], [16:0-5-8,Edge], [22:0-2-8,0-3-0], [26:0-2-8,0-3-0], [29:0-5-8,Edge]

Loading	(psf)	Spacing	2-7-8	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.08	21-23	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.16	21-23	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Attic	-0.06	16-29	>999	360	Weight: 607 lb	FT = 20%

LUMBER TOP CHORD 2x6 SP No.2

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

2x4 SP No.2 *Except* 32-1,13-11:2x6 SP WEBS

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

verticals

(Switched from sheeted: Spacing > 2-0-0). BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

JOINTS 1 Brace at Jt(s): 5,

7, 1, 11, 33, 34, 35

REACTIONS (size) 13=0-5-8, 32=0-3-8

Max Horiz 32=-331 (LC 6)

Max Grav 13=2534 (LC 15), 32=2400 (LC 14)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-3023/0. 3-4=-2005/0. 4-5=-640/69.

5-6=-427/78, 6-7=-400/86, 7-8=-627/73,

8-9=-2034/0, 9-11=-3056/0, 11-12=0/87,

1-32=-2330/0, 11-13=-2463/0 31-32=-221/403, 30-31=-568/1080,

BOT CHORD 28-30=0/2300, 24-28=0/3082, 20-24=0/3514,

18-20=0/2202, 15-18=0/2202, 14-15=-289/1215, 13-14=0/202 27-29=0/2525, 25-27=-151/812

23-25=-1730/0. 21-23=-1730/0. 19-21=-1227/65, 17-19=-1227/65

16-17=0/2435

WEBS

2-31=-695/0, 29-30=0/1175, 3-29=0/1338 15-16=0/1121, 9-16=0/1337, 10-14=-641/0, 4-33=-2016/0, 33-35=-1645/0,

34-35=-1645/0, 8-34=-2073/0, 1-31=0/1939, 11-14=0/1946, 5-33=0/302, 7-34=0/323, 6-35=0/54, 6-33=-511/31, 6-34=-539/23, 17-18=-138/0, 19-20=-299/0, 21-22=-56/25,

23-24=-311/0, 25-26=0/73, 27-28=0/505, 27-30=-2258/0, 25-28=-1235/0, 24-25=0/843, 21-24=-124/309. 20-21=-472/108.

17-20=0/1405, 15-17=-2107/0, 29-31=0/2207,

2-29=-125/378, 14-16=0/2185,

10-16=-176/314

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: 2x4 - 1 row at 0-9-0 oc.

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.

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

Page: 1

- * 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.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-33, 33-35, 34-35, 8-34; Wall dead load (5.0psf) on member (s).3-29, 9-16
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-29, 25-27, 23-25, 21-23, 19-21, 17-19, 16-17
- 11) All bearings are assumed to be SP No.2
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection

LOAD CASE(S) Standard



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December 14,2023



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	
1023-067	H08	Attic	5	1	T32352944 Job Reference (optional)

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:20 ID:LQqXI6RGxKVswtlqGEVOxCyOG7B-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



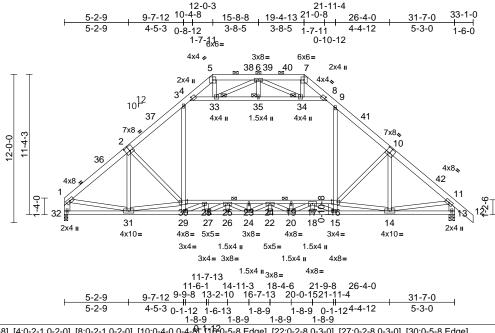


Plate Offsets (X, Y): [2:0-4-0,0-4-8], [4:0-2-1,0-2-0], [8:0-2-1,0-2-0], [10:0-4-0,0-4-8], [16:0-5-8, Edge], [22:0-2-8,0-3-0], [27:0-2-8,0-3-0], [30:0-5-8, Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.13	21-23	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.24	21-23	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.04	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Attic	-0.09	16-30	>999	360	Weight: 304 lb	FT = 20%

LUMBER

Scale = 1:93.2

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

2x4 SP No.2 *Except* 13-11,32-1:2x6 SP WEBS

No 2

BRACING TOP CHORD

Structural wood sheathing directly applied,

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

(6-0-0 max.): 5-7.

BOT CHORD Rigid ceiling directly applied.

JOINTS 1 Brace at Jt(s): 33,

34.35

REACTIONS (size) 13=0-5-8, 32=0-3-8

Max Horiz 32=-253 (LC 10)

Max Grav 13=1911 (LC 19), 32=1809 (LC 18) (lb) - Maximum Compression/Maximum

FORCES Tension TOP CHORD

1-3=-2273/0. 3-4=-1552/0. 4-5=-579/47. 5-6=-407/52, 6-7=-390/58, 7-8=-569/50, 8-9=-1574/0. 9-11=-2300/0. 11-12=0/66.

11-13=-1851/0. 1-32=-1750/0

BOT CHORD 31-32=-138/350 29-31=-455/787

26-29=0/2322, 24-26=0/2322, 20-24=0/2647.

18-20=0/1647, 15-18=0/1647

14-15=-238/898, 13-14=0/195, 28-30=0/1935, 25-28=-122/581, 23-25=-1303/0,

21-23=-1303/0, 19-21=-922/51, 17-19=-922/51. 16-17=0/1861

WEBS

29-30=0/892, 3-30=0/948, 15-16=0/854 9-16=0/947, 4-33=-1444/0, 33-35=-1124/0, 34-35=-1124/0, 8-34=-1483/0, 2-31=-521/0, 10-14=-485/0, 27-28=0/403, 25-26=0/52, 23-24=-231/0, 21-22=-42/20, 19-20=-227/0, 17-18=-103/0, 15-17=-1609/0, 17-20=0/1068, 20-21=-360/79, 21-24=-96/231, 24-25=0/630, 25-27=-894/0, 28-29=-1728/0, 5-33=-1/276, 7-34=0/290, 6-35=0/77, 6-33=-425/19, 6-34=-442/16, 11-14=0/1425, 1-31=0/1407, 14-16=0/1666, 10-16=-134/252, 30-31=0/1694, 2-30=-95/296

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-12 to 3-6-10, Interior (1) 3-6-10 to 12-2-3, Exterior(2R) 12-2-3 to 16-7-13, Interior (1) 16-7-13 to 19-6-13, Exterior(2R) 19-6-13 to 24-0-6, Interior (1) 24-0-6 to 33-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-33, 33-35, 34-35, 8-34

- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 28-30, 25-28, 23-25, 21-23, 19-21, 17-19, 16-17
- All bearings are assumed to be SP No.2.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply		
1023-067	H09	Attic	7	1	T32352945 Job Reference (optional)	

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:20 ID:MFSh0v8PczFCHdguDmq_ifyOGQx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



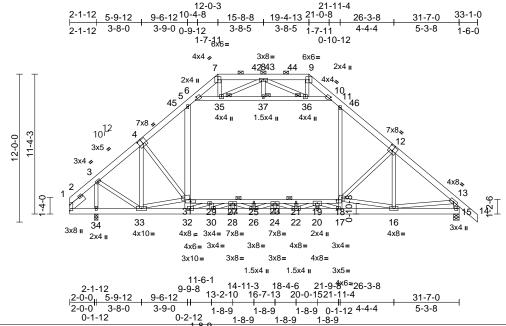


Plate Offsets (X, Y): [4:0-4-0,0-4-8], [6:0-2-1,0-2-0], [10:0-2-1,0-2-0], [12:0-4-0,0-4-8], [18:0-5-8,0-2-0], [24:0-4-0,0-4-8], [28:0-4-0,0-4-8], [31:0-0-2,0-2-6]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.10	23-25	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.18	21-23	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.02	15	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Attic	-0.06	18-31	>999	360	Weight: 337 lb	FT = 20%

LUMBER TOP CHORD

Scale = 1:93.5

2x6 SP No.2

2x6 SP No.2 *Except* 31-18:2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 *Except* 5-32,15-13:2x6 SP WEBS

No 2 **SLIDER** Left 2x6 SP No.2 -- 1-6-0

BRACING

JOINTS

TOP CHORD

Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9.

BOT CHORD Rigid ceiling directly applied.

1 Brace at Jt(s): 35,

36, 37

REACTIONS (size) 15=0-5-8, 34=0-3-8

Max Horiz 34=236 (LC 11)

Max Grav 15=1812 (LC 19), 34=1943 (LC 18) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 7-8=-318/89, 8-9=-338/88, 1-3=-50/113,

3-5=-2051/0, 5-6=-1406/0, 6-7=-490/83,

9-10=-498/82, 10-11=-1402/0, 11-13=-2110/0,

13-14=0/66, 13-15=-1732/0

BOT CHORD 1-34=-3/44. 33-34=-218/234

32-33=-672/343, 30-32=-161/869,

26-30=0/1679, 22-26=0/2404, 20-22=0/1814, 17-20=0/1814, 16-17=0/1257, 15-16=0/281, 29-31=0/2202, 27-29=0/1161, 25-27=-970/0, 23-25=-970/0, 21-23=-945/0, 19-21=-945/0,

18-19=-221/918

WEBS

31-32=0/759, 5-31=0/908, 17-18=0/624 11-18=0/945, 6-35=-1364/0, 35-37=-1118/0, 36-37=-1118/0, 10-36=-1331/0, 3-34=-1746/0, 4-33=-1212/0, 12-16=-371/1, 3-33=0/1254, 7-35=0/232, 9-36=0/215, 8-37=0/40, 8-36=-358/32, 8-35=-391/31, 29-30=0/399, 27-28=-25/29, 25-26=-203/0, 23-24=-65/7, 21-22=-185/0, 19-20=-136/0, 17-19=-989/0, 19-22=0/889, 22-23=-210/229, 23-26=-263/98, 26-27=0/896, 27-30=-1126/0, 29-32=-1243/0, 13-16=0/1251,

16-18=-75/841, 12-18=-203/149 31-33=0/1607, 4-31=0/785

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-0 to 3-3-14, Interior (1) 3-3-14 to 12-2-3, Exterior(2R) 12-2-3 to 15-4-2, Interior (1) 15-4-2 to 19-6-13, Exterior(2R) 19-6-13 to 22-8-11, Interior (1) 22-8-11 to 33-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Ceiling dead load (5.0 psf) on member(s). 6-35, 35-37, 36-37, 10-36, 5-6, 10-11; Wall dead load (5.0psf) on member(s).5-31, 11-18
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 29-31, 27-29, 25-27, 23-25, 21-23, 19-21, 18-19
- All bearings are assumed to be SP No.2.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017





Job	Truss	Truss Type	Qty	Ply		
1023-067	H10	Piggyback Base Supported Gable	1	1	Job Reference (optional)	T32352946

Run: 9.04 S 8.73 Nov 16.2023 Print: 8.730 S Nov 16.2023 MiTek Industries. Inc. Thu Dec 14.11:55:34 ID:7yH0K0UPsbO3iOOmfy2d24yOGeh-TXJwQBDZO2rJXs6NkrvehbnOfZiid0fcYyJc3my9ESt

Page: 1

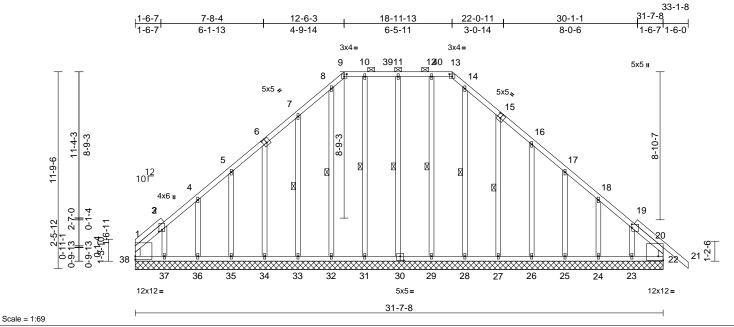


Plate Offsets (X, Y): [2:0-1-5,0-2-4], [6:0-2-8,0-3-0], [9:0-2-0,0-1-13], [13:0-2-0,0-1-13], [15:0-2-8,0-3-0], [19:0-2-8,Edge], [22:Edge,0-2-15], [30:0-2-8,0-3-0], [38:Edge,0-2-5]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	22	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 272 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied, TOP CHORD

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

(6-0-0 max.): 9-13.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 11-30, 12-29, 14-28,

15-27, 10-31, 8-32, 7-33

REACTIONS All bearings 31-7-8.

(lb) - Max Horiz 38=-249 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 22, 23, 24, 25, 26, 27, 30, 33, 34,

35, 36, 37 except 38=-136 (LC 10) Max Grav All reactions 250 (lb) or less at joint (s) 22, 23, 24, 25, 26, 27, 28, 29,

30, 31, 32, 33, 34, 35, 36, 37, 38

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

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-1-12 to 3-3-11, Exterior(2N) 3-3-11 to 12-6-3, Corner(3R) 12-6-3 to 15-9-0, Exterior(2N) 15-9-0 to 18-11-13, Corner(3R) 18-11-13 to 21-11-9, Exterior(2N) 21-11-9 to 33-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 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.
- 10) 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 22, 30, 27, 26, 25, 24, 23, 33, 34, 35, 36, 37 except (jt=lb) 38=136.
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 14) 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



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December 14,2023



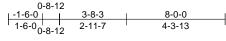
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

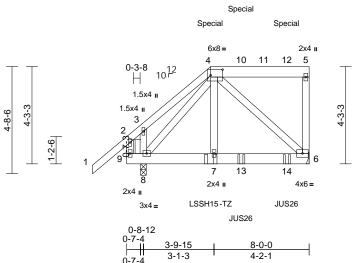


Job	Truss	Truss Type	Qty	Ply	
1023-067	H11	Half Hip Girder	1	2	T32352947 Job Reference (optional)

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:22 ID:byz1?HRZLMi7aMAaXnCaAGyPG7s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:50.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	-0.01	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.02	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 131 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 4-5:2x6 SP No.2 TOP CHORD

BOT CHORD 2x6 SP No.2 2x4 SP 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 6-0-0 oc

bracing.

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

Max Horiz 8=131 (LC 7)

Max Uplift 6=-116 (LC 5), 8=-124 (LC 8)

Max Grav 6=1267 (LC 1), 8=984 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

1-2=0/63, 2-3=-79/35, 3-4=-66/103,

TOP CHORD 4-5=-63/39 5-6=-447/0 2-9=-119/31

BOT CHORD 8-9=-33/109, 7-8=-124/573, 6-7=-128/598

4-7=-133/706, 4-6=-764/140, 4-8=-963/116,

3-8=-108/69

WFBS NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 - Bottom chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc.
- Web connected as follows: 2x4 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD
- CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading
- requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 8 SP No.2.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 6 and 124 lb uplift at joint 8.
- 12) Use MiTek LSSH15-TZ (With 6-10d HDG nails into Girder & 7-10d x 1-1/2 HDG nails into Truss) or equivalent at 3-8-3 from the left end to connect truss(es) to front face of bottom chord, skewed 16.7 deg.to the left, sloping 0.0 deg, down.
- 13) Use MiTek JUS26 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 5-0-5 from the left end to 7-0-5 to connect truss(es) to front face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 233 Ib down and 104 lb up at 3-8-3, and 358 lb down at 5-0-5, and 359 lb down at 7-0-5 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-2=-60, 2-4=-60, 4-5=-60, 6-9=-20 Concentrated Loads (lb)

Vert: 4=-212 (F), 7=-225 (F), 10=-171 (F), 12=-172 (F), 13=-377 (F), 14=-379 (F)



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this design.

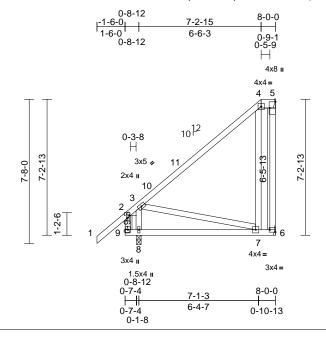
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	H12	Half Hip	1	1	Job Reference (optional)	T32352948

Run: 8 73 S. Nov 13 2023 Print: 8 730 S.Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:23 $ID: kdUMGEF1F8U_yG3DIZNWihyPG5X-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$

Page: 1



Scale = 1:61.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	0.05	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.10	7-8	>881	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 63 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 4-5:2x6 SP No.2 TOP CHORD

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD

Rigid ceiling directly applied. **REACTIONS** (size) 5= Mechanical, 6= Mechanical,

8=0-3-0

Max Horiz 8=223 (LC 11) Max Uplift 5=-23 (LC 12), 6=-144 (LC 9),

8=-43 (LC 12)

Max Grav

5=164 (LC 3), 6=214 (LC 17),

8=452 (LC 23)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/63, 2-3=-151/0, 3-4=-234/142,

4-5=-133/122, 5-6=0/0, 2-9=-144/51

BOT CHORD 8-9=-41/164, 7-8=-499/436, 6-7=-95/110 **WEBS** 3-8=-346/257, 4-7=-153/304, 3-7=-338/421

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 7-2-15, Exterior(2E) 7-2-15 to 7-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 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.
- Bearings are assumed to be: , Joint 8 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 5, 144 lb uplift at joint 6 and 43 lb uplift at joint 8.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



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December 14,2023



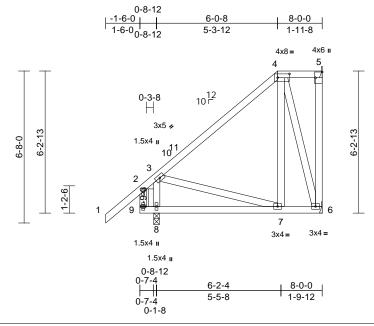
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	
1023-067	H13	Half Hip	1	1	T32352949 Job Reference (optional)

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:23 ID:Nr5BW4ZuRxQxEfnSTpMNRtyPG6P-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:50.5

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

-												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	-0.05	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 66 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD

Rigid ceiling directly applied. **REACTIONS** (size) 5= Mechanical, 6= Mechanical,

8=0-3-0 Max Horiz 8=195 (LC 9)

Max Uplift 5=-13 (LC 9), 6=-53 (LC 9), 8=-46

(LC 12) 5=54 (LC 1), 6=236 (LC 17), 8=452 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/63, 2-3=-44/83, 3-4=-228/61,

4-5=-88/95, 5-6=0/0, 2-9=-109/113 **BOT CHORD** 8-9=-15/16, 7-8=-395/223, 6-7=-122/160

WEBS

4-7=-30/192, 4-6=-313/209, 3-8=-381/143,

3-7=-69/284

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 6-0-8, Exterior(2E) 6-0-8 to 7-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 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.
- Bearings are assumed to be: , Joint 8 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 5, 53 lb uplift at joint 6 and 46 lb uplift at joint 8.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



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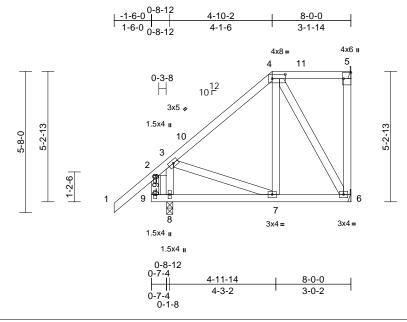
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	H14	Half Hip	1	1	Job Reference (optional)	32352950

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:24 ID:8rXM3BFbZy8d7foSyLvHOOyPG6p-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:46.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	-0.01	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	-0.02	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 60 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD

Rigid ceiling directly applied. **REACTIONS** (size) 5= Mechanical, 6= Mechanical,

8=0-3-0

Max Horiz 8=165 (LC 11) Max Uplift 5=-21 (LC 9), 6=-28 (LC 9), 8=-50

(LC 12)

Max Grav

5=90 (LC 1), 6=189 (LC 17), 8=452 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/63, 2-3=-14/66, 3-4=-216/63, 4-5=-74/80, 5-6=0/0, 2-9=-67/89

BOT CHORD 8-9=-15/16, 7-8=-340/183, 6-7=-137/182

4-7=-18/138, 4-6=-238/165, 3-8=-325/62,

3-7=-5/215

WEBS NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 4-10-2, Exterior(2E) 4-10-2 to 7-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 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.
- Bearings are assumed to be: , Joint 8 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 5, 28 lb uplift at joint 6 and 50 lb uplift at joint 8.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



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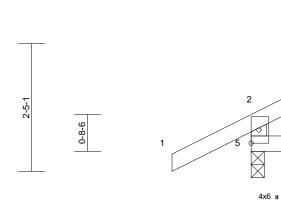


Job	Truss	Truss Type	Qty	Ply		
1023-067	J01	Jack-Open	1	1	Job Reference (optional)	T32352951

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:24 ID:vqnmV5FSsdZR667?ycuhd9yPFYg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

-1-6-0	2-8-5
1-6-0	2-8-5



Scale = 1:21.8

	2-8-5	

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR							Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-5 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-0

Max Horiz 5=69 (LC 12)

Max Uplift 3=-14 (LC 12), 5=-40 (LC 12)

3=51 (LC 17), 4=43 (LC 3), 5=231 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-198/140, 1-2=0/44, 2-3=-44/24

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 2-7-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 5 and 14 lb uplift at joint 3.

LOAD CASE(S) Standard



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December 14,2023



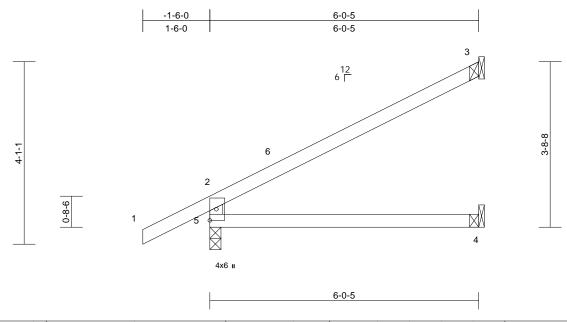
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	J02	Jack-Open	1	1	Job Reference (optional)	T32352952

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:24 ID:k_82m8JDRTJbq1a9lt?5tQyPFYa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Sca	le =	: 1:2	25.8
Sca	le =	: 1:2	25.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.05	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.11	4-5	>634	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 22 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size)

3= Mechanical, 4= Mechanical, 5=0-3-0

Max Horiz 5=109 (LC 12)

Max Uplift 3=-42 (LC 12), 5=-23 (LC 12) Max Grav 3=155 (LC 1), 4=107 (LC 3), 5=345

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 2-5=-293/168, 1-2=0/44, 2-3=-94/54

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 5-11-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 5 and 42 lb uplift at joint 3.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



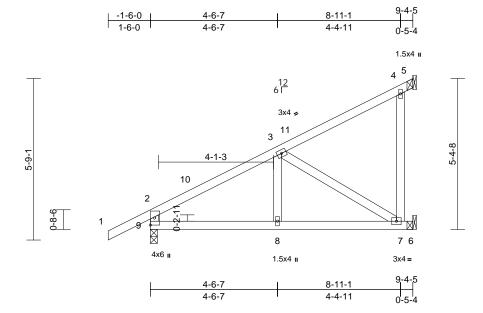
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Job	Truss	Truss Type	Qty	Ply	
1023-067	J03	Jack-Open	1	1	2352953

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:25 ID:G3657cWFgNKJIVpEEEIrWoyPFYK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	-0.03	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.06	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 50 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied. REACTIONS (size) 5= Mechanical, 6= Mechanical,

9=0-3-0

Max Horiz 9=149 (LC 12)

Max Uplift 6=-61 (LC 12), 9=-11 (LC 12)

Max Grav 5=160 (LC 3), 6=248 (LC 1), 9=474

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

2-9=-421/123, 1-2=0/44, 2-3=-457/0,

3-4=-73/34, 4-5=0/71

BOT CHORD 8-9=-135/350, 7-8=-135/350, 6-7=0/0 WEBS 4-7=-14/130, 3-8=0/202, 3-7=-409/157

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 9-3-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 9 SP No.2 .

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 9 and 61 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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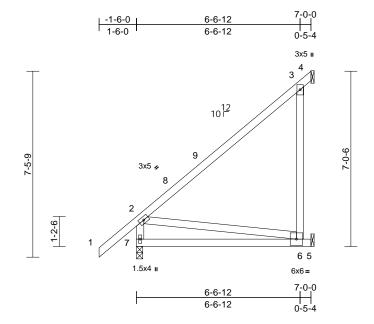
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		2252054
1023-067	J04	Jack-Open	3	1	13.	2352954

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	0.10	6-7	>807	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.21	6-7	>392	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 47 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied. 4= Mechanical, 5= Mechanical,

REACTIONS (size) 7=0-3-0

Max Horiz 7=205 (LC 12)

Max Uplift 4=-47 (LC 17), 5=-228 (LC 12) Max Grav 4=245 (LC 3), 5=332 (LC 17),

7=382 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

2-7=-301/34, 1-2=0/63, 2-3=-215/110,

3-4=-42/180

BOT CHORD 6-7=-314/117, 5-6=0/0 WEBS 3-6=-270/537, 2-6=-119/318

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 6-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.

- Bearings are assumed to be: , Joint 7 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 4 and 228 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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December 14,2023



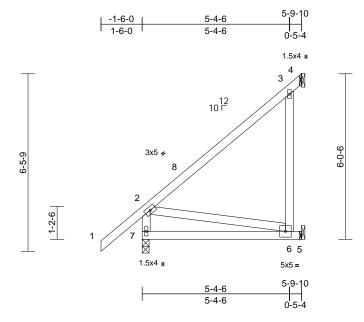
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	J05	Jack-Open	1	1	Job Reference (optional)	T32352955

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	0.05	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.10	6-7	>696	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 39 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 4= Mechanical, 5= Mechanical,

7=0-3-0

Max Horiz 7=181 (LC 12) Max Uplift 4=-6 (LC 17), 5=-145 (LC 12) Max Grav 4=168 (LC 3), 5=238 (LC 17),

7=337 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-7=-270/47, 1-2=0/63, 2-3=-190/96,

3-4=-26/112

BOT CHORD 6-7=-296/106, 5-6=0/0 WEBS 3-6=-191/406, 2-6=-108/301

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 5-8-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.

- Bearings are assumed to be: , Joint 7 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 4 and 145 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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December 14,2023



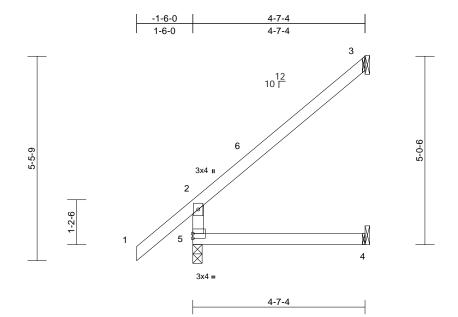
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	J06	Jack-Open	1	1	Job Reference (optional)	T32352956

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	0.04	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.04	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.05	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 20 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size)

3= Mechanical, 4= Mechanical,

5=0-3-0 Max Horiz 5=157 (LC 12) Max Uplift 3=-61 (LC 12)

Max Grav 3=126 (LC 17), 4=82 (LC 3), 5=293

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 2-5=-251/106, 1-2=0/63, 2-3=-146/74

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 4-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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December 14,2023



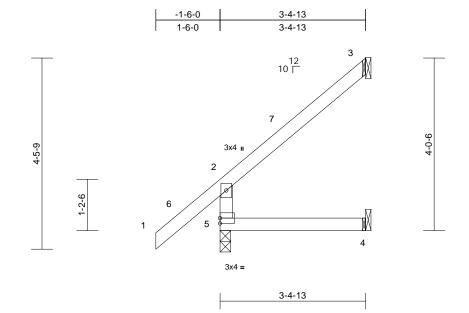
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	
1023-067	J07	Jack-Open	1	1	32352957

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:26

Page: 1



Scale = 1:26.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	0.01	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR							Weight: 16 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-4-13 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-0

Max Horiz 5=133 (LC 12)

Max Uplift 3=-44 (LC 12)

3=86 (LC 17), 4=59 (LC 3), 5=252 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-217/115, 1-2=0/63, 2-3=-113/57

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 3-4-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint

LOAD CASE(S) Standard



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December 14,2023



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

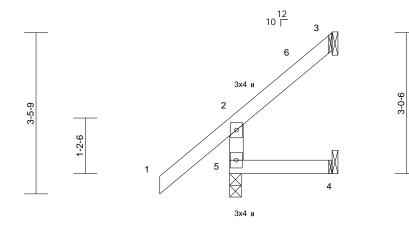


Job	Truss	Truss Type	Qty	Ply		
1023-067	J08	Jack-Open	1	1	T32 Job Reference (optional)	352958

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Scale = 1:24.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	0.00	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR							Weight: 12 lb	FT = 20%

2-2-7

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-7 oc purlins, except end verticals.

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

bracing.

REACTIONS (size)

3= Mechanical, 4= Mechanical, 5=0-3-0

Max Horiz 5=109 (LC 12)

Max Uplift 3=-25 (LC 12), 4=-6 (LC 12), 5=-9

(LC 12)

Max Grav 3=41 (LC 17), 4=34 (LC 3), 5=219 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-189/130, 1-2=0/63, 2-3=-72/42

BOT CHORD 4-5=0/0

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 2-1-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.

- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 5, 25 lb uplift at joint 3 and 6 lb uplift at joint 4.

LOAD CASE(S) Standard



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December 14,2023



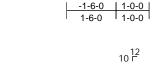
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

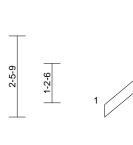


Job	Truss	Truss Type	Qty	Ply		
1023-067	J09	Jack-Open	1	1	Job Reference (optional)	2352959

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Page: 1







1.5x4 II

3x5 🚜

Scale = 1:35

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	0.00	5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 9 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-0

Max Horiz 5=48 (LC 12)

Max Uplift 3=-71 (LC 1), 4=-61 (LC 12), 5=-48

(LC 12)

Max Grav 3=68 (LC 12), 4=32 (LC 10), 5=229

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-220/160, 1-2=0/63, 2-3=-78/104

BOT CHORD 4-5=-145/36 **WEBS** 2-4=-55/220

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 5, 61 lb uplift at joint 4 and 71 lb uplift at joint 3.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	_	
1023-067	J10	Jack-Partial	1	1	T Job Reference (optional)	32352960

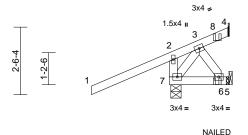
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5.14 -

NAILED





Scale = 1:43.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	0.00	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	0.00	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 17 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-11 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical,

7=0-4-9 Max Horiz 7=50 (LC 12)

Max Uplift 4=-29 (LC 12), 5=-148 (LC 23),

7=-116 (LC 12)

Max Grav 4=70 (LC 1), 5=95 (LC 30), 7=405

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-545/722, 1-2=0/72, 2-3=-142/289,

3-4=-51/25

BOT CHORD 6-7=-100/114, 5-6=0/0 3-7=-434/173, 3-6=-221/194 WEBS

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -2-11-0 to 1-1-6, Exterior(2R) 1-1-6 to 2-2-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: , Joint 7 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 4, 148 lb uplift at joint 5 and 116 lb uplift at joint 7.
- "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS auidlines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-60, 2-4=-60, 5-7=-20



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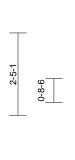


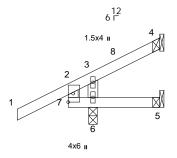
Job	Truss	Truss Type	Qty	Ply		
1023-067	J11	Jack-Open	1	1	Job Reference (optional)	T32352961

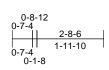
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1.5x4 I

Scale = 1:33.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	0.00	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	0.00	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-6 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical,

6=0-3-0

Max Horiz 6=69 (LC 12)

Max Uplift 4=-12 (LC 9), 5=-21 (LC 1), 6=-63 (LC 12)

Max Grav 4=21 (LC 17), 5=20 (LC 3), 6=302

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-90/59, 1-2=0/44, 2-3=-76/35, 3-4=-44/19

BOT CHORD 6-7=-32/125, 5-6=0/0

3-6=-141/103 **WEBS**

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 2-7-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 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.
- Bearings are assumed to be: , Joint 6 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 4, 21 lb uplift at joint 5 and 63 lb uplift at joint 6.

LOAD CASE(S) Standard



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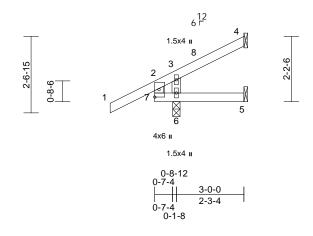
Job	Truss	Truss Type	Qty	Ply		
1023-067	J12	Jack-Open	5	1	Job Reference (optional)	T32352962

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Special



Scale = 1:38.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	0.00	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	0.00	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (size)

4= Mechanical, 5= Mechanical, 6=0-3-0

Max Horiz 6=73 (LC 12) Max Uplift 4=-177 (LC 23), 5=-11 (LC 1),

6=-59 (LC 12)

4=103 (LC 28), 5=28 (LC 3), 6=303 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-83/50, 1-2=0/44, 2-3=-89/41, 3-4=-46/21

BOT CHORD 6-7=-35/134, 5-6=0/0

3-6=-153/119 WEBS

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 2-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 6 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 4, 11 lb uplift at joint 5 and 59 lb uplift at joint 6.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 143 lb down and 207 lb up at 2-11-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-60, 2-4=-60, 5-7=-20

Concentrated Loads (lb)

Vert: 4=50 (B)



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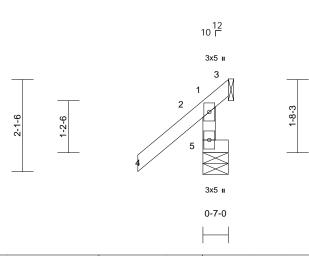


Job	Truss	Truss Type	Qty	Ply		
1023-067	J13	Jack-Open Supported Gable	2	1	Job Reference (optional)	T32352963

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-1-6-0	0-7-0
1-6-0	0-7-0



Scale = 1:26.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.04	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	0.00	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR							Weight: 6 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

0-7-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4=0-7-0, 5=0-7-0

5=13 (LC 12) Max Horiz

Max Uplift 3=-36 (LC 12), 4=-1 (LC 12), 5=-8

(LC 10)

3=24 (LC 10), 4=0 (LC 10), 5=30 Max Grav

(LC 12)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-115/37, 1-2=-3/0, 2-3=-190/64

BOT CHORD 4-5=0/1

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 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.
- Bearings are assumed to be: , Joint 4 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 5, 1 lb uplift at joint 4 and 36 lb uplift at joint 3.

LOAD CASE(S) Standard



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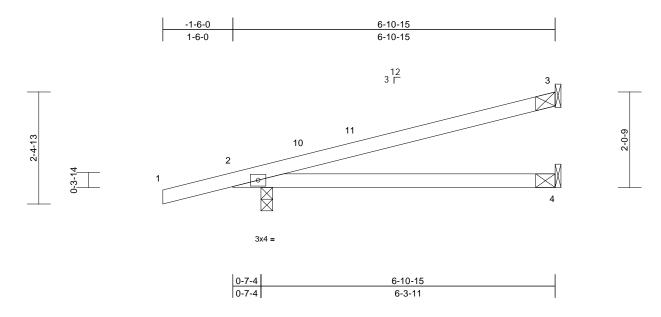


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	J14	Jack-Open	1	1	Job Reference (optional)	T32352964

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:28 Page: 1



Scale = 1:24.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.06	4-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.13	4-9	>639	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 23 lb	FT = 20%

LUMBER

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

BRACING

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

Rigid ceiling directly applied.

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

Max Horiz 2=55 (LC 12)

Max Uplift 2=-39 (LC 12), 3=-26 (LC 12)

Max Grav 2=410 (LC 1), 3=160 (LC 1), 4=109

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/22, 2-3=-201/274

BOT CHORD 2-4=-274/230

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 6-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: , Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 3 and 39 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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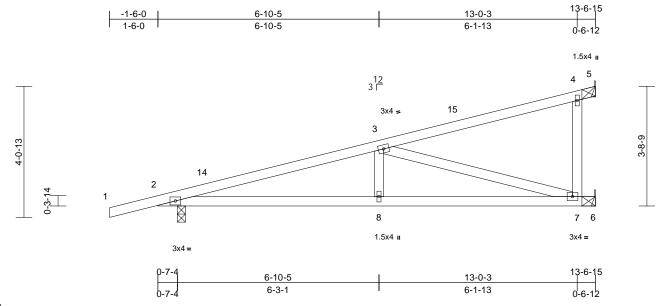
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	
1023-067	J15	Jack-Open	1	1	2352965

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:29 ID:5_1hqZYedxb2PdPf14PX_tyPGBb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.09	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.21	7-8	>775	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 59 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-0, 5= Mechanical, 6=

Mechanical Max Horiz 2=95 (LC 12)

Max Uplift 2=-30 (LC 12), 6=-71 (LC 12)

2=665 (LC 1), 5=276 (LC 3), 6=319 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/22, 2-3=-1163/271, 3-4=-57/24,

4-5=0/67

BOT CHORD 2-8=-271/1090, 7-8=-200/1090, 6-7=0/0

4-7=0/241, 3-8=0/281, 3-7=-1132/208 **WEBS**

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 13-6-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 6 and 30 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 14,2023

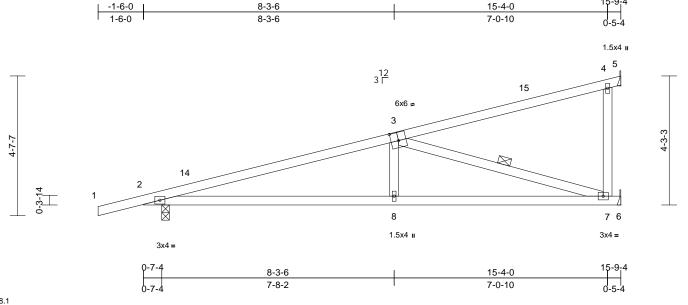


🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	J16	Monopitch	2	1	Job Reference (optional)	T32352966

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:29 ID:Os0BRa2MzXmDqx2XwBe88WyPGAy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:38.1

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

		1		1								
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.11	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.25	7-8	>758	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		, ,					Weight: 69 lb	FT = 20%

LUMBER

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

BRACING

WFBS

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

1 Row at midpt REACTIONS (size) 2=0-3-0, 5= Mechanical, 6=

Mechanical

Max Horiz 2=108 (LC 12)

Max Uplift 2=-28 (LC 12), 6=-119 (LC 12)

3-7

Max Grav 2=752 (LC 1), 5=378 (LC 3), 6=397

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/22, 2-4=-1347/269, 4-5=0/91 **BOT CHORD** 2-8=-270/1259, 7-8=-152/1249, 6-7=0/0 WFBS 3-8=0/334, 4-7=0/340, 3-7=-1306/159

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 15-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.

- Bearings are assumed to be: , Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 6 and 28 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869

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December 14,2023



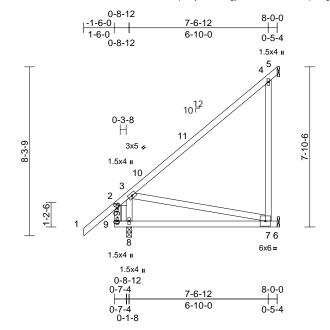
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	_	
1023-067	J17	Jack-Open	7	1	Job Reference (optional)	32352967

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:30 ID:5xwO9?KU3opDl5yW1T_dMgyPG47-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:56.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	0.12	7-8	>716	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.23	7-8	>375	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 54 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied. REACTIONS (size) 5= Mechanical, 6= Mechanical,

8=0-3-0

Max Horiz 8=225 (LC 12) Max Uplift 5=-26 (LC 17), 6=-218 (LC 12) Max Grav 5=206 (LC 3), 6=324 (LC 17),

8=455 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-9=-126/101, 1-2=0/63, 2-3=-56/78,

3-4=-200/110, 4-5=-29/132

BOT CHORD 8-9=-15/16, 7-8=-328/125, 6-7=0/0 WEBS 3-8=-346/91, 4-7=-251/418, 3-7=-128/335

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 7-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.

- Bearings are assumed to be: , Joint 8 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 5 and 218 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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December 14,2023



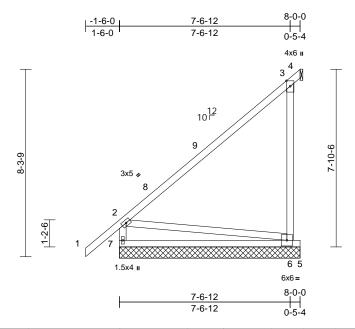
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	J18	Jack-Open	2	1	Job Reference (optional)	T32352968

Run: 9.04 F. 8.73 Nov.16.2023 Print: 8.730 F. Nov.16.2023 MiTek Industries. Inc. Thu Dec.14.11:56:31 ID:_nGcGdCe6wu?O9SMFbHVGsyPG3?-JUGTOhvJzZ0DsdzKaJR?Uce1cX2DUaG?fJd7azy9ES_

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.08	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.16	6-7	>549	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 53 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD

Rigid ceiling directly applied. REACTIONS All bearings 8-0-0. except 4= Mechanical

(lb) - Max Horiz 7=225 (LC 12)

Max Uplift All uplift 100 (lb) or less at joint(s)

except 4=-807 (LC 17), 5=-586 (LC

3), 6=-240 (LC 12)

All reactions 250 (lb) or less at joint Max Grav (s) 5 except 4=323 (LC 12), 6=1505

(LC 17), 7=351 (LC 1)

(lb) - Max. Comp./Max. Ten. - All forces 250

FORCES

(lb) or less except when shown.

TOP CHORD 2-7=-294/11, 3-4=-529/482

BOT CHORD 6-7=-328/125 **WEBS** 3-6=-1102/1042, 2-6=-126/330

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 7-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 585 lb uplift at joint 5, 807 lb uplift at joint 4 and 240 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16 structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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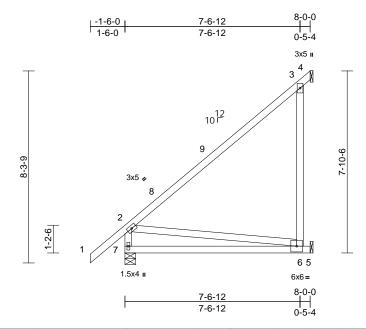
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	J19	Jack-Open	4	1	Job Reference (optional)	T32352969

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:30 ID:L0bwu9TRwgfu1X8aXCgfAUyPG2f-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	0.15	6-7	>605	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.36	6-7	>262	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 53 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 4= Mechanical, 5= Mechanical,

7=0-5-8 Max Horiz 7=225 (LC 12)

Max Uplift 4=-83 (LC 17), 5=-309 (LC 12) Max Grav 4=324 (LC 3), 5=412 (LC 17),

7=421 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-7=-328/23, 1-2=0/63, 2-3=-226/129,

3-4=-65/238

BOT CHORD 6-7=-328/125, 5-6=0/0 WEBS 3-6=-341/642, 2-6=-126/330

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 7-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.

- Bearings are assumed to be: , Joint 7 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 4 and 309 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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December 14,2023



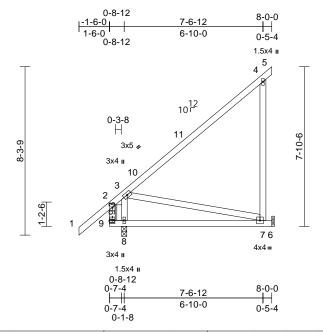
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	_	
1023-067	J20	Jack-Open	4	1		32352970

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	-0.09	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.19	7-8	>457	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 54 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD

Rigid ceiling directly applied. REACTIONS (size) 6= Mechanical, 8=0-3-0

Max Horiz 8=231 (LC 12)

Max Uplift 6=-98 (LC 12)

Max Grav 6=300 (LC 17), 8=455 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-9=-231/44, 1-2=0/63, 2-3=-254/0,

3-4=-186/95, 4-5=-17/0

BOT CHORD 8-9=-59/212, 7-8=-403/330, 6-7=0/0 **WEBS** 3-8=-311/180, 4-7=-204/203, 3-7=-338/412

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 8-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 8 SP No.2 .
- Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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December 14,2023



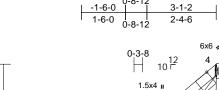
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

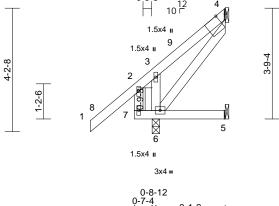


Job	Truss	Truss Type	Qty	Ply		
1023-067	J21	Jack-Open	1	1	Job Reference (optional)	T32352971

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Page: 1





Scale = 1:39.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.Ó	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	-0.01	`5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.01	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 23 lb	FT = 20%

0-1-8

2-4-6

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-2 oc purlins. except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical,

6=0-3-0 Max Horiz 6=128 (LC 12)

Max Uplift 4=-81 (LC 12), 5=-11 (LC 1), 6=-12

(LC 12)

Max Grav 4=67 (LC 17), 5=42 (LC 12), 6=305

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-128/217, 1-2=0/63, 2-3=-36/148,

3-4=-95/263

BOT CHORD 6-7=-15/16, 5-6=0/0 WEBS 4-6=-411/124, 3-6=-134/206

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 3-1-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 6 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 4, 11 lb uplift at joint 5 and 12 lb uplift at joint 6.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



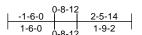
Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

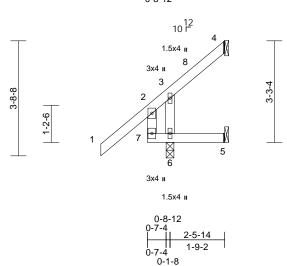


Job	Truss	Truss Type	Qty	Ply		
1023-067	J22	Jack-Open	1	1	T32352972 Job Reference (optional)	

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:32 ID:SITijLe5RaxHCTHyI_1ddryPGAB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:37.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	0.00	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	0.00	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 15 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-5-14 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical,

6=0-3-0

Max Horiz 6=115 (LC 12)

Max Uplift 4=-30 (LC 12), 5=-32 (LC 1), 6=-20

(LC 12)

Max Grav 4=27 (LC 10), 5=13 (LC 3), 6=303

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-114/90, 1-2=0/63, 2-3=-113/63,

3-4=-72/38

BOT CHORD 6-7=-53/229, 5-6=0/0

WEBS 3-6=-111/57

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 2-5-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 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.
- Bearings are assumed to be: , Joint 6 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 4, 32 lb uplift at joint 5 and 20 lb uplift at joint 6.

LOAD CASE(S) Standard



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December 14,2023



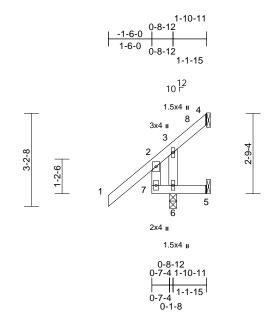
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	_	
1023-067	J23	Jack-Open	1	1	Job Reference (optional)	Г32352973

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:32 ID:LoBo?uUxVbl78ToS1llac6yPGAO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	0.00	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	0.00	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-11 oc purlins, except end verticals. **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical,

6=0-3-0

Max Horiz 6=104 (LC 12)

Max Uplift 4=-26 (LC 9), 5=-66 (LC 1), 6=-30 (LC 12)

Max Grav 4=12 (LC 10), 5=8 (LC 8), 6=324

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-125/122, 1-2=0/63, 2-3=-70/49,

3-4=-57/32

BOT CHORD 6-7=-48/200, 5-6=0/0 3-6=-98/28 WEBS

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 1-10-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearings are assumed to be: , Joint 6 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 5, 30 lb uplift at joint 6 and 26 lb uplift at joint 4.

LOAD CASE(S) Standard



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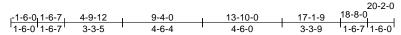
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

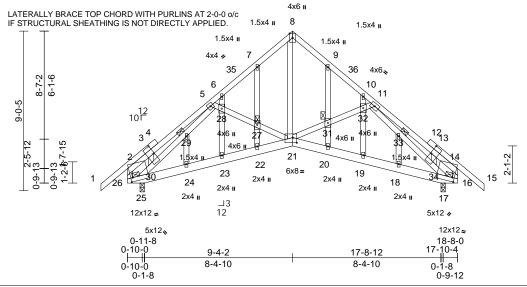


Job	Truss	Truss Type	Qty	Ply		
1023-067	K01	Scissor Structural Gable	1	1	Job Reference (optional)	T32352974

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:32 ID:1V?rXm_0p6kMiV5tnmPa7MyOHMX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:65.1

Plate Offsets (X, Y): [16:0-1-4,0-2-14], [21:0-2-12,0-3-8], [26:0-1-4,0-2-13], [30:0-6-0,0-0-8], [34:0-6-0,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	-0.02	22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.05	22	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.03	17	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 166 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied, TOP CHORD except end verticals.

BOT CHORD Rigid ceiling directly applied. **JOINTS** 1 Brace at Jt(s): 26,

16, 27, 29, 31, 33

REACTIONS (size) 17=0-3-0, 25=0-3-0

Max Horiz 25=195 (LC 11)

Max Uplift 17=-40 (LC 12), 25=-48 (LC 12)

Max Grav 17=833 (LC 1), 25=835 (LC 1)

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

Tension TOP CHORD

1-2=0/58, 2-3=-253/12, 3-5=-219/70

5-6=-766/4, 6-7=-682/17, 7-8=-668/78

8-9=-670/83, 9-10=-683/33, 10-11=-765/12, 11-13=-223/67, 13-14=-262/9, 14-15=0/58,

2-26=-330/52, 14-16=-337/56

BOT CHORD 25-26=0/215, 24-25=0/704, 23-24=0/739,

22-23=0/710, 21-22=0/748, 20-21=0/674, 19-20=0/641, 18-19=0/667, 17-18=0/630,

16-17=0/222

8-21=-57/662, 21-31=-194/97.

31-32=-189/91, 11-32=-161/97,

5-28=-147/95, 27-28=-179/90,

21-27=-176/93, 25-30=-715/0, 29-30=-685/0, 5-29=-768/0, 11-33=-761/0, 33-34=-679/0, 17-34=-708/7, 7-27=-110/71, 22-27=-116/63, 6-28=-5/99, 23-28=0/180, 24-29=-113/23, 3-30=-51/56, 9-31=-115/72, 20-31=-105/57, 10-32=-4/96, 19-32=0/176, 18-33=-111/24,

13-34=-51/55

NOTES

WEBS

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-4-0, Interior (1) 1-4-0 to 9-4-0, Exterior(2R) 9-4-0 to 12-4-0, Interior (1) 12-4-0 to 20-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- All bearings are assumed to be SP No.2
- Bearing at joint(s) 25, 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 at joint(s) 25. 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 25 and 40 lb uplift at joint 17.

13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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December 14,2023



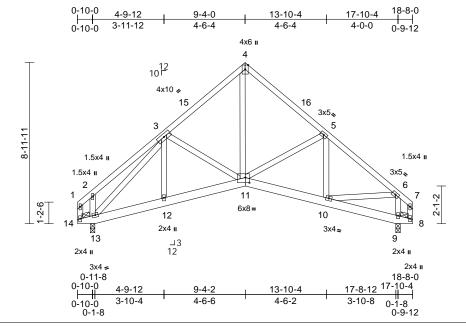
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	K02	Scissor	1	1	T32352975 Job Reference (optional)	

Run: 8.73 S. Nov.13.2023 Print: 8.730 S.Nov.13.2023 MiTek Industries. Inc. Wed Dec 13.08:11:33. ID:Q6uHwslb8aYTdD1W?66RgZyOHPP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:64.2

Plate Offsets (X, Y): [11:0-2-12,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	-0.02	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	-0.04	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 136 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS 9=0-3-0, 13=0-3-0 (size)

Max Horiz 13=180 (LC 11)

Max Uplift 13=-12 (LC 12)

Max Grav 9=734 (LC 1), 13=736 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=-79/0, 2-3=-179/88, 3-4=-690/86,

4-5=-691/96, 5-6=-810/55, 6-7=-57/1,

1-14=-55/0 7-8=-44/0 BOT CHORD

13-14=-1/85, 12-13=-16/648, 11-12=-17/657,

10-11=-3/598, 9-10=-19/70, 8-9=-9/61 WFBS 4-11=-29/505, 3-11=-159/88, 3-13=-765/0,

3-12=0/157, 5-11=-177/92, 5-10=-119/47,

6-10=0/523, 6-9=-663/89, 2-13=-189/101

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 9-4-0, Exterior(2R) 9-4-0 to 12-4-0, Interior (1) 12-4-0 to 18-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- 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.
- All bearings are assumed to be SP No.2.
- Bearing at joint(s) 13, 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 12 lb uplift at joint
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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December 14,2023



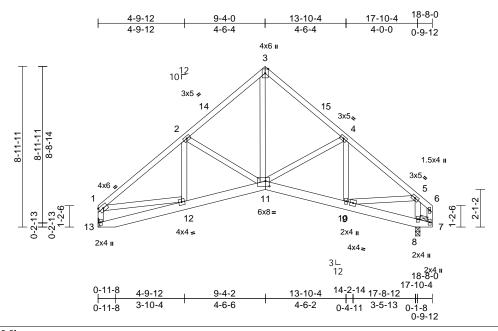
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	K03	Scissor	1	1	Job Reference (optional)	T32352976

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:34 ID:TefpEwvhe4kPETg3vPr0qoyOHQV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:64.3

Plate Offsets (X, Y): [11:0-2-12,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.02	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	-0.04	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 133 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD Rigid ceiling directly applied.

REACTIONS 8=0-3-0, 13= Mechanical (size)

Max Horiz 13=-183 (LC 10)

Max Grav 8=763 (LC 1), 13=707 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-956/55, 2-3=-740/91, 3-4=-739/99,

4-5=-846/57, 5-6=-55/2, 1-13=-678/50,

6-7=-42/0

BOT CHORD 12-13=-151/256, 11-12=-21/760,

10-11=-4/627, 9-10=0/573, 8-9=-19/69,

7-8=-9/60

WEBS 3-11=-36/574, 4-11=-169/92, 2-11=-237/91,

1-12=0/563, 4-10=-132/48, 2-12=-49/90,

5-8=-697/89. 5-9=0/553

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 9-4-0, Exterior(2R) 9-4-0 to 12-4-0, Interior (1) 12-4-0 to 18-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- 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.
- Bearings are assumed to be: , Joint 8 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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



Job	Truss	Truss Type	Qty	Ply		
1023-067	K04	Piggyback Base Girder	1	2	Job Reference (optional)	T32352977

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:35 ID:8gk25MEtf96p_34v5wd_dhyOHAa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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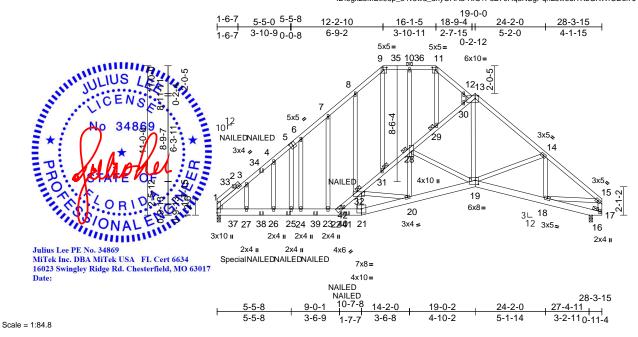


Plate Offsets (X, Y): [1:Edge,0-0-5], [5:0-2-8,0-3-0], [9:0-3-4,0-2-0], [11:0-3-4,0-2-0], [13:0-2-12,Edge], [19:0-2-12,0-3-8], [28:0-4-8,0-2-0], [32:0-2-12,0-1-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.11	25-26	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.15	25-26	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.03	16	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 529 lb	FT = 20%

5-25=-123/104, 22-32=-895/1726,

31-32=-827/1324, 28-31=-860/970,

28-29=-680/363, 29-30=-692/190,

13-30=-743/307, 10-28=-107/447,

9-31=-66/548, 8-32=-107/104, 7-23=-259/85,

20-28=-72/104, 11-29=-58/516,

12-30=-303/77, 14-18=-228/50,

6-24=-120/55, 4-26=-172/104,

3-27=-273/126, 21-32=-171/95

20-32=-46/464, 13-19=-127/650,

19-28=-159/965, 14-19=-139/140,

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2
WEDGE	Left: 2x4 SP No.2

BRACING TOP CHORD

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

2-0-0 oc purlins (6-0-0 max.): 9-11.

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

6-0-0 oc bracing: 16-17. JOINTS 1 Brace at Jt(s): 17, 28, 29, 31, 32

REACTIONS (size) 1=0-3-0. 16=0-3-0 Max Horiz 1=224 (LC 7)

> Max Uplift 1=-50 (LC 8) Max Grav 1=1432 (LC 14), 16=1165 (LC 14)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-1552/0, 3-4=-1608/0, 4-6=-1589/44, 6-7=-1526/90, 7-8=-1589/160,

8-9=-1526/202, 9-10=-1190/172 10-11=-1190/172, 13-14=-1617/40, 14-15=-1641/11, 15-17=-1133/11, 11-12=-1529/199, 12-13=-1376/157

BOT CHORD 1-27=0/1338, 26-27=0/1257, 25-26=0/1257, 24-25=0/1256, 23-24=0/1256, 22-23=0/1256,

21-22=-332/834, 20-21=-352/878, 19-20=-59/883, 18-19=0/1261, 16-18=-1/88, 16-17=-351/0

NOTES

WFBS

2-ply truss to be connected together with 10d (0.131"x3") nails as follows

15-18=0/1130

Top chords connected as follows: 2x4 - 1 row at 0-9-0 OC.

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

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

3) N/A

Unbalanced roof live loads have been considered for 4) this design.

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- 10) Gable studs spaced at 2-0-0 oc.
- 11) 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.
- 13) All bearings are assumed to be SP No.2



Job	Truss	Truss Type	Qty	Ply		
1023-067	K04	Piggyback Base Girder	1	2	Job Reference (optional)	T32352977

Run: 8 73 S. Nov 13 2023 Print: 8 730 S.Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:35 $ID: 8gk25MEtf96p_34v5wd_dhyOHAa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$

Page: 2

14) 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.

- 15) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
- 16) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint
- 17) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 18) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 19) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 40 lb up at 1-2-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft) Vert: 1-9=-60, 9-11=-60, 12-15=-60, 1-21=-20, 19-21=-20, 16-19=-20, 11-12=-60 Concentrated Loads (lb) Vert: 25=39 (F), 33=59 (F), 34=39 (F), 37=-46 (F), 39=39 (F), 41=-171 (F), 42=39 (F)



Job	Truss	Truss Type	Qty	Ply		
1023-067	K05	Piggyback Base	2	1	T32352978 Job Reference (optional)	

16-6-13

11-9-2

10-5-12

5-5-8

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

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23-2-5

18-10-6



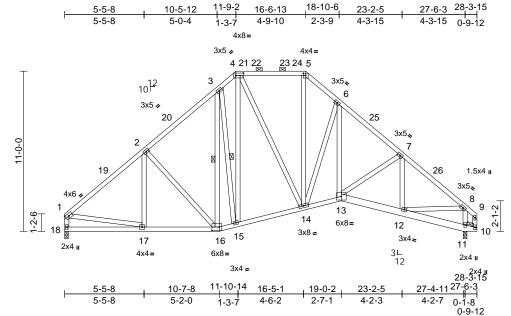


Plate Offsets (X, Y): [4:0-6-4,0-2-0], [5:0-2-0,0-1-13], [16:0-6-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	-0.04	13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.08	13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 245 lb	FT = 20%

LUMBER

Scale = 1:79.2

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 13-10:2x6 SP No.2

2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied,

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

(6-0-0 max.): 4-5.

BOT CHORD Rigid ceiling directly applied. WFRS 1 Row at midpt 3-16, 3-15 **REACTIONS** (size) 11=0-3-0, 18=0-3-0

Max Horiz 18=-226 (LC 10)

Max Grav 11=1149 (LC 1), 18=1094 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1269/46, 2-3=-1070/121, 3-4=-960/178,

4-5=-790/119, 5-6=-1064/138, 6-7=-1371/91, 7-8=-1401/42, 8-9=-89/0, 1-18=-1041/37,

9-10=-71/0

BOT CHORD 17-18=-164/306, 16-17=-10/949,

15-16=0/787, 14-15=0/759, 13-14=0/1000,

12-13=0/1050, 11-12=-21/84, 10-11=-8/88 2-17=-32/122, 2-16=-279/83, 3-16=-50/91,

3-15=-246/141, 4-15=-112/320, 4-14=0/241,

5-14=-36/441, 6-14=-592/62, 6-13=0/543,

1-17=0/776, 8-11=-1051/89, 7-12=-228/45,

7-13=-102/77, 8-12=0/945

NOTES

WFBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 11-9-2, Exterior(2R) 11-9-2 to 16-0-1, Interior (1) 16-0-1 to 16-6-13, Exterior(2R) 16-6-13 to 20-9-11, Interior (1) 20-9-11 to 28-2-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 18 SP No.2, Joint 11
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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



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

December 14,2023



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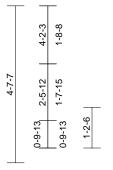
Job	Truss	Truss Type	Qty	Ply		
1023-067	M01	Common Supported Gable	1	1	Job Reference (optional)	T32352979

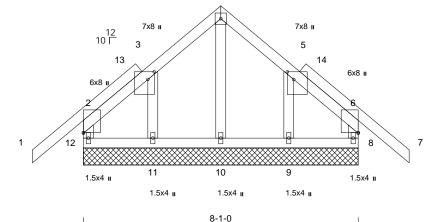
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-1-6-0 1-6-7 4-0-8 6-6-9 8-1-0 9-7-0 1-6-0 1-6-7 2-6-1 2-6-1 1-6-7 1-6-0

4x4 = LATERALLY BRACE TOP CHORD WITH PURLINS AT 2-0-0 o/c IF STRUCTURAL SHEATHING IS NOT DIRECTLY APPLIED. 4





Scale = 1:33.9

Plate Offsets (X, Y): [3:0-2-11,0-2-4], [5:0-2-11,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 53 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size)

8=8-1-0, 9=8-1-0, 10=8-1-0, 11=8-1-0, 12=8-1-0

Max Horiz 12=107 (LC 11)

Max Uplift 8=-78 (LC 12), 9=-19 (LC 8),

11=-22 (LC 9), 12=-78 (LC 12)

8=196 (LC 24), 9=160 (LC 18), Max Grav 10=172 (LC 1), 11=166 (LC 17),

12=196 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-12=-178/226, 1-2=0/58, 2-3=-66/93,

3-4=-75/162, 4-5=-75/162, 5-6=-55/93, 6-7=0/58, 6-8=-178/226

11-12=-50/71, 10-11=-50/71, 9-10=-50/71,

8-9=-50/71 WEBS 4-10=-132/0, 3-11=-128/104, 5-9=-128/104

NOTES

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 4-0-8, Corner(3R) 4-0-8 to 7-0-8, Exterior(2N) 7-0-8 to 9-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) All bearings are assumed to be SP No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 12, 78 lb uplift at joint 8, 22 lb uplift at joint 11 and 19 lb uplift at joint 9.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 14,2023

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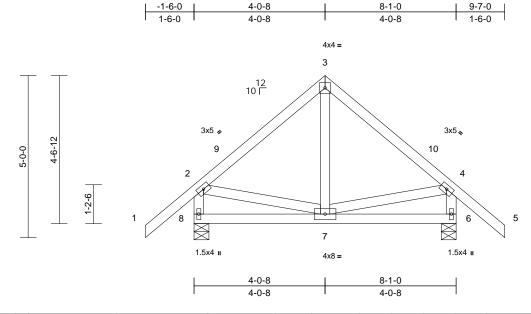
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Job	Truss	Truss Type	Qty	Ply		
1023-067	M02	Common	2	1	T3235298 Job Reference (optional)	0

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Scale = 1:35.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	-0.01	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.01	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 53 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied. REACTIONS

(size) 6=0-5-8, 8=0-5-8 Max Horiz 8=119 (LC 11)

Max Uplift 6=-40 (LC 12), 8=-40 (LC 12)

Max Grav 6=410 (LC 1), 8=410 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/63, 2-3=-261/88, 3-4=-261/88, 4-5=0/63, 2-8=-380/175, 4-6=-380/175

BOT CHORD 7-8=-116/109, 6-7=-15/16

WEBS 3-7=0/134, 2-7=0/165, 4-7=0/165

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 4-0-8, Exterior(2R) 4-0-8 to 7-0-8, Interior (1) 7-0-8 to 9-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 8 and 40 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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December 14,2023



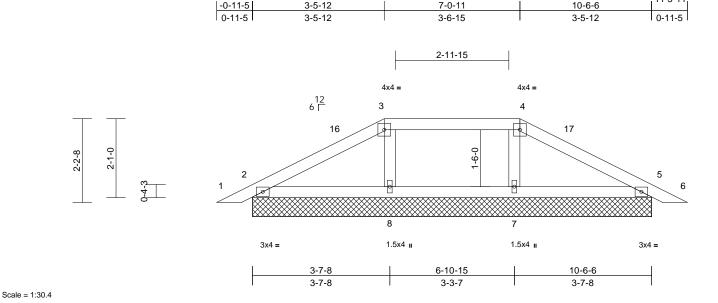
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Job	Truss	Truss Type	Qty	Ply		
1023-067	PB01	Piggyback	1	1	Job Reference (optional)	T32352981

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Page: 1



BCDL LUMBER

Loading

TCDI

BCLL

TCLL (roof)

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

BRACING

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

(psf)

20.0

10.0

10.0

0.0*

Spacing

Plate Grip DOL

Rep Stress Incr

Lumber DOL

REACTIONS (size)

2=10-6-6, 5=10-6-6, 7=10-6-6, 8=10-6-6, 9=10-6-6, 13=10-6-6 Max Horiz 2=34 (LC 11), 9=34 (LC 11) 2=-23 (LC 12), 5=-23 (LC 12), Max Uplift 9=-23 (LC 12), 13=-23 (LC 12)

2=177 (LC 1), 5=177 (LC 1), 7=294 (LC 24), 8=294 (LC 23), 9=177 (LC

1), 13=177 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-65/51, 3-4=-36/61,

4-5=-65/50, 5-6=0/17

BOT CHORD 2-8=-2/43, 7-8=-1/29, 5-7=-2/40

3-8=-206/94, 4-7=-206/94 **WEBS**

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft: L=24ft: eave=4ft: Cat. II: Exp B: Enclosed: MWFRS (directional) and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior (1) 3-3-15 to 4-5-1, Exterior(2E) 4-5-1 to 12-1-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

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

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

0.10

0.09

0.02

in

n/a

n/a

0.00

(loc)

13

I/defI

n/a 999

n/a 999

n/a n/a

L/d

PLATES

Weight: 40 lb

MT20

GRIP

244/190

FT = 20%

- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

CSI

TC

BC

WB

Matrix-AS

2-0-0

1.25

1 25

YES

FBC2020/TPI2014

- 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) All bearings are assumed to be SP No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 2, 23 lb uplift at joint 5, 23 lb uplift at joint 2 and 23 lb uplift at joint 5.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 14,2023



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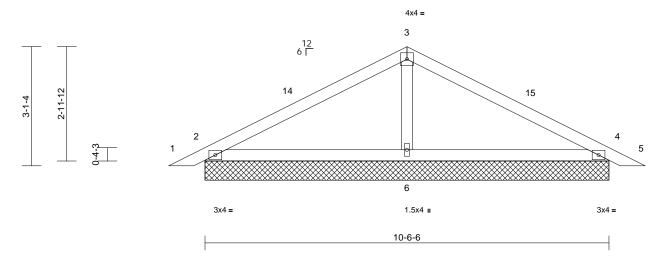


Job	Truss	Truss Type	Qty	Ply	
1023-067	PB02	Piggyback	16	1	T32352982 Job Reference (optional)

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Page: 1





Scale = 1:30

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 40 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size)

2=10-6-6, 4=10-6-6, 6=10-6-6, 7=10-6-6, 11=10-6-6 Max Horiz 2=-49 (LC 10), 7=-49 (LC 10) Max Uplift 2=-27 (LC 12), 4=-27 (LC 12), 7=-27 (LC 12), 11=-27 (LC 12) Max Grav 2=249 (LC 1), 4=249 (LC 1), 6=418 (LC 1), 7=249 (LC 1), 11=249 (LC

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/17, 2-3=-134/92, 3-4=-134/89,

4-5=0/17

BOT CHORD 2-6=-18/85, 4-6=-16/85

3-6=-245/102 **WEBS**

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft: L=24ft: eave=4ft: Cat. II: Exp B: Enclosed: MWFRS (directional) and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior (1) 3-3-15 to 6-2-8, Exterior(2R) 6-2-8 to 9-2-8, Interior (1) 9-2-8 to 12-1-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 2, 27 lb uplift at joint 4, 27 lb uplift at joint 2 and 27 lb uplift at joint 4.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 14,2023



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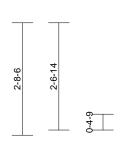


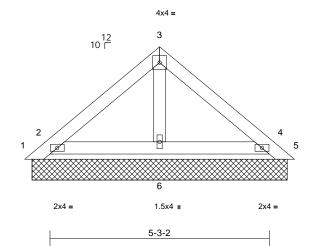
Job	Truss	Truss Type	Qty	Ply		
1023-067	PB03	Piggyback	1	1	Job Reference (optional)	T32352983

Run: 8 73 S. Nov 13 2023 Print: 8 730 S.Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:38 ID:8A4ltY6cB8CPLusGV26zwxyPFSO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

-0-7-4			5-10-7
1 1	2-7-9	5-3-2	[
0.7.4	270	270	0.7.4





Scale = 1:27.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 23 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. REACTIONS (size)

1=6-1-8, 2=6-1-8, 4=6-1-8, 5=6-1-8, 6=6-1-8, 7=6-1-8, 13=6-1-8

Max Horiz 1=50 (LC 11)

Max Uplift 1=-139 (LC 17), 2=-26 (LC 9),

7=-26 (LC 9)

1=37 (LC 9), 2=260 (LC 17), 4=3

(LC 18), 5=88 (LC 1), 6=284 (LC 1), 7=260 (LC 17), 13=3 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-77/136, 2-3=-70/72, 3-4=-29/88,

4-5=-54/24

BOT CHORD 2-6=-69/82, 4-6=-69/82

WEBS 3-6=-180/73

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 2, 139 lb uplift at joint 1 and 26 lb uplift at joint 2.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 14,2023



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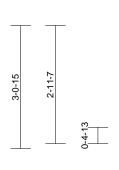


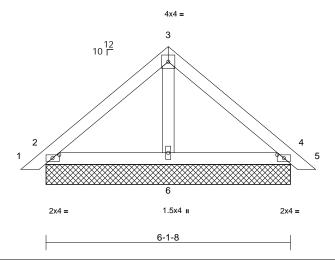
Job	Truss	Truss Type	Qty	Ply		
1023-067	PB04	Piggyback	16	1	Job Reference (optional)	T32352984

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Page: 1







Scale = 1:28.8

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

											_	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 27 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=6-1-8, 4=6-1-8, 6=6-1-8, 7=6-1-8, 11=6-1-8

Max Horiz 2=-57 (LC 10), 7=-57 (LC 10) Max Uplift 2=-24 (LC 12), 4=-24 (LC 12), 7=-24 (LC 12), 11=-24 (LC 12) 2=174 (LC 1), 4=174 (LC 1), 6=191 Max Grav (LC 1), 7=174 (LC 1), 11=174 (LC

1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-118/88, 3-4=-118/87, 4-5=0/15

BOT CHORD 2-6=-20/58, 4-6=-18/58 WEBS 3-6=-71/0

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 3-8-5, Exterior(2R) 3-8-5 to 6-5-2, Interior (1) 6-5-2 to 7-1-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 7) 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.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 2, 24 lb uplift at joint 4, 24 lb uplift at joint 2 and 24 lb uplift at joint 4.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 14,2023



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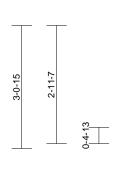


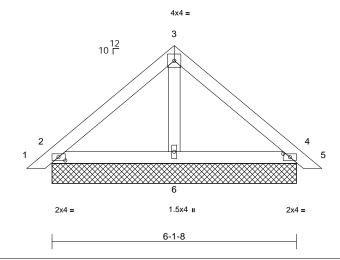
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1023-067	PB05	Piggyback	2	2	Job Reference (optional)	T32352985

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Page: 1







Scale = 1:28.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 54 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=6-1-8, 4=6-1-8, 6=6-1-8, 7=6-1-8,

11=6-1-8

Max Horiz 2=-57 (LC 10), 7=-57 (LC 10) Max Uplift 2=-24 (LC 12), 4=-24 (LC 12),

7=-24 (LC 12), 11=-24 (LC 12) 2=173 (LC 1), 4=173 (LC 1), 6=191 Max Grav

(LC 1), 7=173 (LC 1), 11=173 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/15, 2-3=-118/89, 3-4=-118/88, 4-5=0/15

BOT CHORD 2-6=-23/69, 4-6=-21/57 WEBS 3-6=-72/0

NOTES

- 2-ply truss to be connected together as follows: 1) Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc Bottom chords connected with 10d (0.131"x3") nails 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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 3-8-5, Exterior(2R) 3-8-5 to 6-5-2, Interior (1) 6-5-2 to 7-1-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- 10) * 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.
- 11) All bearings are assumed to be SP No.2.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 2, 24 lb uplift at joint 4, 24 lb uplift at joint 2 and 24 lb uplift at joint 4.
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord
- 14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 14,2023

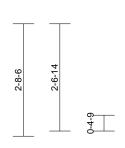


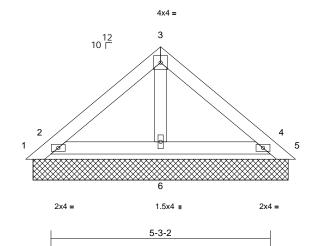
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1023-067	PB06	Piggyback	1	1	Job Reference (optional)	T32352986

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Page: 1

-0-7-4			5-10-7
	2-7-9	5-3-2	
0-7-4	2-7-9	2-7-9	0-7-4





Scale = 1:27.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 23 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. REACTIONS (size)

1=6-1-8, 2=6-1-8, 4=6-1-8, 5=6-1-8, 6=6-1-8, 7=6-1-8, 10=6-1-8

Max Horiz 1=50 (LC 11)

Max Uplift 1=-147 (LC 17), 2=-35 (LC 12),

4=-42 (LC 12), 5=-117 (LC 18),

7=-35 (LC 12), 10=-42 (LC 12) 1=35 (LC 9), 2=310 (LC 17), 4=278 Max Grav

(LC 18), 5=31 (LC 12), 6=151 (LC 1), 7=310 (LC 17), 10=278 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-81/141, 2-3=-83/57, 3-4=-82/60,

4-5=-61/93

BOT CHORD 2-6=-36/46, 4-6=-36/46 WEBS 3-6=-76/9

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2, 42 lb uplift at joint 4, 147 lb uplift at joint 1, 117 lb uplift at joint 5, 35 lb uplift at joint 2 and 42 lb uplift at joint 4.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 14,2023



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



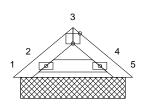
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1023-067	PB07	Piggyback	1	1	Job Reference (optional)	32352987

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Page: 1

0-9-13 1-7-9

12 10 Г



3x4 =

2x4 =

1-7-9

2x4 =

Scale = 1:27.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.04	Vert(LL)	n/a	(100)	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL		BC	0.04	Vert(TL)		-		999	IVITZU	244/190
			1.25			` '	n/a	-	n/a			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 8 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-1 oc purlins.

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

bracing.

REACTIONS All bearings 2-5-15.

(lb) - Max Horiz 1=20 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) 1 Max Grav All reactions 250 (lb) or less at joint (s) 1, 2, 5, 6

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.

- 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 100 lb uplift at joint (s) 1.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 14,2023



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



Job	Truss	Truss Type	Qty	Ply		
1023-067	PB08	Piggyback	15	1	Job Reference (optional)	

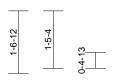
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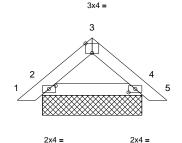
Page: 1

-0-7-9			
	1-2-15	2-5-15	3-1-8
0-7-9	1-2-15	1-2-15	0-7-9



10 ¹²





2-5-15

Scale = 1:28.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 11 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-1 oc purlins.

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

bracing.

REACTIONS (size)

2=2-5-15, 4=2-5-15, 6=2-5-15,

10=2-5-15

Max Horiz 2=27 (LC 11), 6=27 (LC 11) Max Uplift 2=-10 (LC 12), 4=-6 (LC 12), 6=-10

(LC 12), 10=-6 (LC 12) 2=124 (LC 1), 4=130 (LC 1), 6=124

(LC 1), 10=130 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/15, 2-3=-66/38, 3-4=-66/39, 4-5=0/15

BOT CHORD 2-4=0/49

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 2, 6 lb uplift at joint 4, 10 lb uplift at joint 2 and 6 lb uplift at joint 4.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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December 14,2023



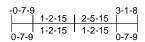
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply		
1023-067	PB8A	Piggyback	1	1	T32352 Job Reference (optional)	2989

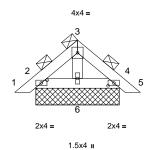
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Page: 1



10 ¹²





1-2-15	2-5-15
1-2-15	1-2-15

Scale = 1:34.5

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

Loading	(psf)	Spacing	3-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD 2-0-0 oc purlins

(Switched from sheeted: Spacing > 2-0-0). **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

2=2-5-15, 4=2-5-15, 6=2-5-15, 7=2-5-15, 11=2-5-15 Max Horiz 2=41 (LC 11), 7=41 (LC 11) Max Uplift 2=-24 (LC 12), 4=-24 (LC 12),

7=-24 (LC 12), 11=-24 (LC 12) Max Grav 2=123 (LC 1), 4=123 (LC 1), 6=126 (LC 1), 7=123 (LC 1), 11=123 (LC

1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23, 2-3=-52/44, 3-4=-49/49, 4-5=0/23

BOT CHORD 2-6=-14/53, 4-6=-14/53

WFBS 3-6=-51/1

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 2, 24 lb uplift at joint 4, 24 lb uplift at joint 2 and 24 lb uplift at joint 4.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 12) 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



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December 14,2023



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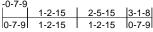
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1023-067	PB09	Piggyback	1	2	Job Reference (optional)	Г32352990

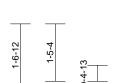
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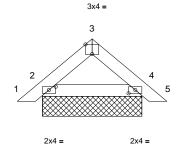
Page: 1

1-2-15 1-2-15 1-2-15

10 ¹²







2-5-15

Scale = 1:28.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 22 lb	FT = 20%

LUMBER

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

BRACING TOP CHORD Structural wood sheathing directly applied or

3-9-1 oc purlins.

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=2-5-15, 4=2-5-15, 6=2-5-15, 10=2-5-15

Max Horiz 2=27 (LC 11), 6=27 (LC 11) Max Uplift 2=-10 (LC 12), 4=-6 (LC 12), 6=-10

(LC 12), 10=-6 (LC 12)

2=124 (LC 1), 4=130 (LC 1), 6=124

(LC 1), 10=130 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/15, 2-3=-65/38, 3-4=-66/39, 4-5=0/15

BOT CHORD 2-4=-1/49

NOTES

- 2-ply truss to be connected together as follows: Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected with 10d (0.131"x3") nails 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.

- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- 10) * 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.
- 11) All bearings are assumed to be SP No.2.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 2, 6 lb uplift at joint 4, 10 lb uplift at joint 2 and 6 lb uplift at joint 4.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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

December 14,2023



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

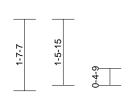


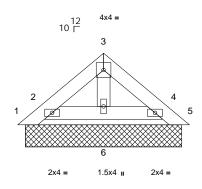
Job	Truss	Truss Type	Qty	Ply	_	
1023-067	PB10	Piggyback	1	2	Job Reference (optional)	T32352991

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Page: 1

-0-7-4			
	1-4-1	2-8-3	3-3-7
0-7-4	1-4-1	1-4-1	0-7-4





2-8-3

Scale = 1:26.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 25 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-9-10 oc purlins.

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

bracing.

REACTIONS (size) 1=3-6-8, 2=3-6-8, 4=3-6-8, 5=3-6-8,

6=3-6-8, 7=3-6-8, 10=3-6-8

Max Horiz 1=-28 (LC 10)

Max Uplift 1=-27 (LC 10), 2=-1 (LC 12), 4=-7 (LC 12), 5=-7 (LC 18), 7=-1 (LC

12), 10=-7 (LC 12)

Max Grav 1=21 (LC 11), 2=120 (LC 17),

4=100 (LC 1), 5=4 (LC 12), 6=91

(LC 1), 7=120 (LC 17), 10=100 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-34/50, 2-3=-32/32, 3-4=-33/34,

4-5=-5/25

BOT CHORD 2-6=-13/36, 4-6=-13/36 WEBS 3-6=-40/5

NOTES

TOP CHORD

- 2-ply truss to be connected together as follows: 1) Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected with 10d (0.131"x3") nails 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.

- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- 11) All bearings are assumed to be SP No.2.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 2, 7 lb uplift at joint 4, 27 lb uplift at joint 1, 7 lb uplift at joint 5, 1 lb uplift at joint 2 and 7 lb uplift at joint 4.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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December 14,2023



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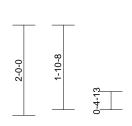


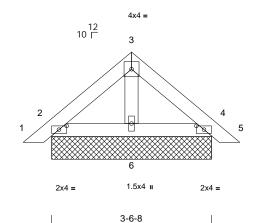
Job	Truss	Truss Type	Qty	Ply		
1023-067	PB11	Piggyback	3	1	T323529 Job Reference (optional)	

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Page: 1

-0-7-9	1-9-4	3-6-8	4-2-1
0-7-9	1-9-4	1-9-4	0-7-9





Scale = 1:25.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 16 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size)

2=3-6-8, 4=3-6-8, 6=3-6-8, 7=3-6-8, 11=3-6-8

Max Horiz 2=-36 (LC 10), 7=-36 (LC 10) Max Uplift 2=-17 (LC 12), 4=-17 (LC 12), 7=-17 (LC 12), 11=-17 (LC 12)

2=106 (LC 1), 4=106 (LC 1), 6=119 Max Grav (LC 1), 7=106 (LC 1), 11=106 (LC

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-56/45, 3-4=-55/49, 4-5=0/15

BOT CHORD 2-6=-6/38, 4-6=-6/38 WFBS 3-6=-48/1

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- 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.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 2, 17 lb uplift at joint 4, 17 lb uplift at joint 2 and 17 lb uplift at joint 4.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 14,2023



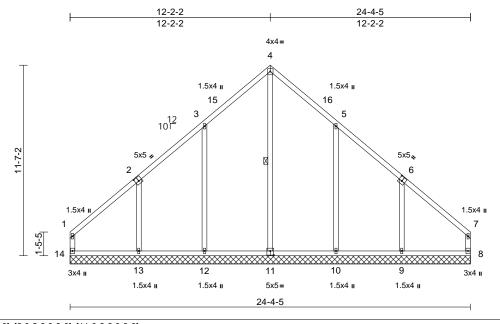
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	
1023-067	V01	Valley	1	1	T32352993 Job Reference (optional)

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:42 ID:x8AjakSw6DVG0?y0QQtrSqyPF9t-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:70.1

Plate Offsets (X, Y): [2:0-2-8,0-3-0], [6:0-2-8,0-3-0], [11:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.29	Horiz(TL)	0.01	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 139 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals

BOT CHORD Rigid ceiling directly applied.

WFRS 1 Row at midpt 4-11

REACTIONS (size)

8=24-4-5, 9=24-4-5, 10=24-4-5, 11=24-4-5, 12=24-4-5, 13=24-4-5,

14=24-4-5

Max Horiz 14=-234 (LC 10)

Max Uplift 8=-28 (LC 9), 9=-81 (LC 12),

10=-65 (LC 12), 12=-65 (LC 12), 13=-81 (LC 12), 14=-35 (LC 8)

Max Grav 8=265 (LC 17), 9=488 (LC 18),

10=464 (LC 18), 11=326 (LC 12),

12=463 (LC 17), 13=492 (LC 17),

14=274 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-14=-195/51, 1-3=-224/173, 3-4=-246/280, TOP CHORD 7-8=-187/48, 4-5=-246/276, 5-7=-213/169

BOT CHORD 13-14=-96/132, 12-13=-96/128,

10-12=-96/128, 9-10=-96/128, 8-9=-92/128

WFBS 4-11=-279/138, 3-12=-267/130

2-13=-289/136, 5-10=-268/130, 6-9=-287/135

NOTES

Unbalanced roof live loads have been considered for this design

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 12-2-2, Exterior(2R) 12-2-2 to 15-2-2, Interior (1) 15-2-2 to 24-2-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1.5x4 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 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 14, 28 lb uplift at joint 8, 65 lb uplift at joint 12, 81 lb uplift at joint 13, 65 lb uplift at joint 10 and 81 lb uplift at joint
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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December 14,2023



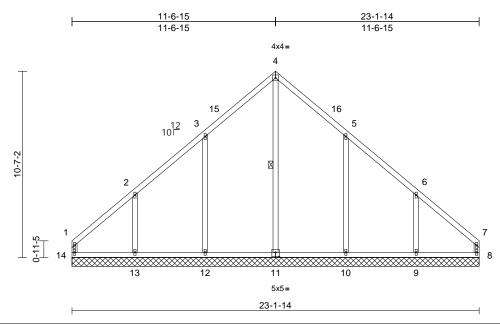
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	
1023-067	V02	Valley	1	1	352994

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:43 ID:INV2CGjjx_H8eOdEi1G0LTyPF9X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:65.5

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

											_	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 126 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals

BOT CHORD Rigid ceiling directly applied.

WFRS 1 Row at midpt 4-11

REACTIONS (size) 8=23-1-14, 9=23-1-14, 10=23-1-14, 11=23-1-14, 12=23-1-14,

13=23-1-14, 14=23-1-14

Max Horiz 14=-210 (LC 10)

Max Uplift 8=-6 (LC 9), 9=-82 (LC 12), 10=-64

(LC 12), 12=-64 (LC 12), 13=-82 (LC 12), 14=-19 (LC 8)

Max Grav 8=218 (LC 17), 9=446 (LC 18),

10=473 (LC 18), 11=306 (LC 17),

12=472 (LC 17), 13=451 (LC 17),

14=235 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-14=-176/31, 1-2=-211/122, 2-3=-192/127, 3-4=-217/235, 4-5=-217/228, 5-6=-172/121,

6-7=-189/93, 7-8=-161/19

BOT CHORD 13-14=-77/116, 12-13=-77/116,

10-12=-77/116, 9-10=-77/116, 8-9=-77/116

4-11=-216/102, 3-12=-271/132,

WEBS 2-13=-265/126, 5-10=-271/132, 6-9=-263/125

NOTES

TOP CHORD

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 11-6-15, Exterior(2R) 11-6-15 to 14-6-15, Interior (1) 14-6-15 to 23-0-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1.5x4 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 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) All bearings are assumed to be SP No.2.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 14, 6 lb uplift at joint 8, 64 lb uplift at joint 12, 82 lb uplift at joint 13, 64 lb uplift at joint 10 and 82 lb uplift at joint
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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

December 14,2023



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



Job	Truss	Truss Type	Qty	Ply	
1023-067	V03	Valley	1	1	T32352995 Job Reference (optional)

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:43 ID:0ZeFsV2faHhJOXBQnCFLx9yPF96-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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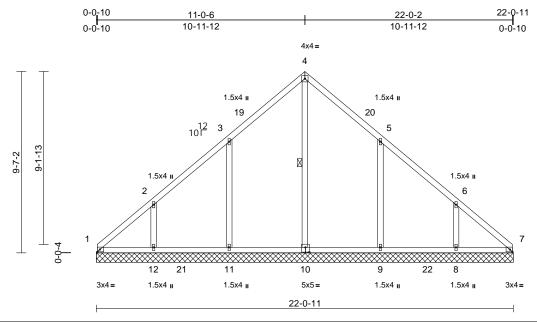


Plate Offsets (X, Y): [1:0-1-10,0-1-8], [7:0-1-10,0-1-8], [10:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 113 lb	FT = 20%

LUMBER

Scale = 1:60.9

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

BRACING

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

WFBS 1 Row at midpt 4-10

REACTIONS (size) 1=22-0-11, 7=22-0-11, 8=22-0-11,

9=22-0-11, 10=22-0-11, 11=22-0-11, 12=22-0-11, 13=22-0-11, 16=22-0-11

Max Horiz 1=-183 (LC 10), 13=-183 (LC 10) Max Uplift 1=-22 (LC 10), 8=-67 (LC 12),

9=-69 (LC 12), 11=-69 (LC 12), 12=-67 (LC 12), 13=-22 (LC 10)

Max Grav 1=180 (LC 18), 7=152 (LC 17), 8=396 (LC 18), 9=474 (LC 18),

10=351 (LC 17), 11=477 (LC 17), 12=396 (LC 17), 13=180 (LC 18),

16=152 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-161/143, 2-3=-179/100, 3-4=-153/141, 4-5=-135/138, 5-6=-137/50, 6-7=-120/89

BOT CHORD 1-12=-62/104, 11-12=-62/104, 9-11=-62/104,

8-9=-62/104, 7-8=-62/104

WFBS 4-10=-155/16, 3-11=-277/138, 2-12=-240/110,

5-9=-277/138, 6-8=-240/110

NOTES

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-0-10 to 2-11-12, Interior (1) 2-11-12 to 10-11-12, Exterior(2R) 10-11-12 to 13-11-12, Interior (1) 13-11-12 to 22-0-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 10) All bearings are assumed to be SP No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1, 69 lb uplift at joint 11, 67 lb uplift at joint 12, 69 lb uplift at joint 9, 67 lb uplift at joint 8 and 22 lb uplift at joint 1.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord

LOAD CASE(S) Standard



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

December 14,2023



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



Job	Truss	Truss Type	Qty	Ply		
1023-067	V04	Valley	1	1	Job Reference (optional)	T32352996

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:44 ID:MozZU0JSO2SB1wtf4qeVqoyPF8m-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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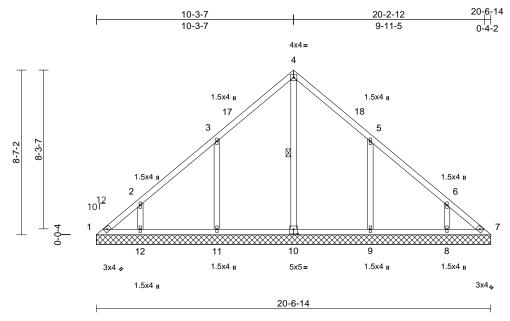


Plate Offsets (X, Y): [10:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	n/a	. ,	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 99 lb	FT = 20%

LUMBER

Scale = 1:60.1

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

BRACING

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

WFBS 1 Row at midpt 4-10

REACTIONS (size) 1=20-6-14, 7=20-6-14, 8=20-6-14,

9=20-6-14, 10=20-6-14, 11=20-6-14, 12=20-6-14

Max Horiz 1=-167 (LC 10)

Max Uplift 1=-39 (LC 10), 8=-42 (LC 12),

9=-73 (LC 12), 11=-73 (LC 12),

12=-42 (LC 12)

Max Grav 1=120 (LC 18), 7=90 (LC 17), 8=334 (LC 18), 9=455 (LC 18),

10=371 (LC 17), 11=454 (LC 17),

12=338 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-152/140, 2-3=-164/108, 3-4=-141/134,

4-5=-123/130, 5-6=-124/65, 6-7=-114/85 1-12=-58/112, 11-12=-58/90, 9-11=-58/90, BOT CHORD

8-9=-58/90, 7-8=-58/90

WFRS 4-10=-170/3, 3-11=-281/141, 2-12=-218/97,

5-9=-281/141, 6-8=-216/97

NOTES

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 10-3-12, Exterior(2R) 10-3-12 to 13-3-12, Interior (1) 13-3-12 to 20-7-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 10) All bearings are assumed to be SP No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 1, 73 lb uplift at joint 11, 42 lb uplift at joint 12, 73 lb uplift at joint 9 and 42 lb uplift at joint 8.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord

LOAD CASE(S) Standard



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

December 14,2023



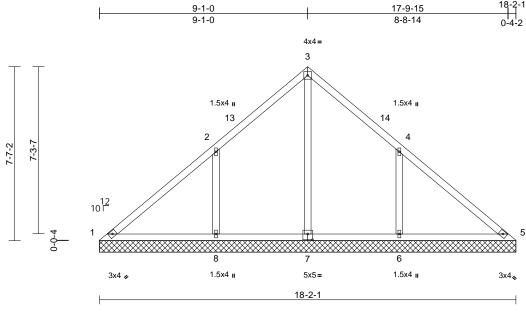
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	
1023-067	V05	Valley	1	1	2352997

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:44 ID:nfA7hsY?hBzLQ_PVF1?Be0yPF8S-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:50.3 Plate Offsets (X, Y): [7:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 82 lb	FT = 20%

LUMBER

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

BRACING TOP CHORD

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

REACTIONS (size) 1=18-2-1, 5=18-2-1, 6=18-2-1,

7=18-2-1, 8=18-2-1

Max Horiz 1=-147 (LC 10)

Max Uplift 1=-4 (LC 10), 6=-83 (LC 12), 8=-83

(LC 12)

1=112 (LC 18), 5=104 (LC 24), Max Grav

6=562 (LC 18), 7=540 (LC 17),

8=565 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-121/307, 2-3=-3/222, 3-4=0/198,

4-5=-102/268

BOT CHORD 1-8=-155/116, 6-8=-155/97, 5-6=-155/97 **WEBS** 3-7=-366/0. 2-8=-334/147. 4-6=-332/146

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 9-1-5, Exterior(2R) 9-1-5 to 12-1-5, Interior (1) 12-1-5 to 18-2-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1, 83 lb uplift at joint 8 and 83 lb uplift at joint 6.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 14,2023



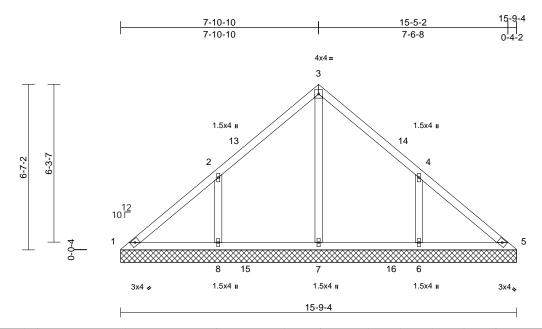
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	
1023-067	V06	Valley	1	1	T32352998 Job Reference (optional)

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:44 ID:tgbvdQe041ZOzxES203SKIyPF3A-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 69 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size)

1=15-9-4, 5=15-9-4, 6=15-9-4, 7=15-9-4, 8=15-9-4

Max Horiz 1=-127 (LC 10)

Max Uplift 6=-69 (LC 12), 8=-69 (LC 12) 1=122 (LC 18), 5=101 (LC 24), Max Grav

6=461 (LC 18), 7=456 (LC 17),

8=463 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-145/185, 2-3=-56/131, 3-4=-54/110, 4-5=-116/151

BOT CHORD 1-8=-79/125, 7-8=-79/78, 6-7=-79/78,

5-6=-79/87

WEBS 3-7=-270/0, 2-8=-284/143, 4-6=-282/143

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 7-10-15, Exterior(2R) 7-10-15 to 10-10-15, Interior (1) 10-10-15 to 15-9-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 8 and 69 lb uplift at joint 6.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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December 14,2023



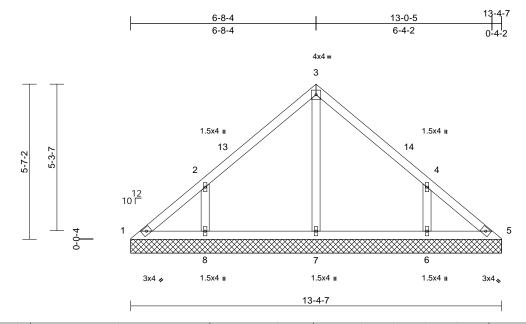
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	
1023-067	V07	Valley	1	1	T32352999 Job Reference (optional)

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:45 ID:3om3wBnwUQxqodaaBqm1HcyPF3?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:41.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 57 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size)

1=13-4-7, 5=13-4-7, 6=13-4-7, 7=13-4-7, 8=13-4-7 Max Horiz 1=107 (LC 11)

Max Uplift 1=-2 (LC 10), 6=-57 (LC 12), 8=-57 (LC 12)

Max Grav 1=106 (LC 18), 5=87 (LC 17), 6=326 (LC 18), 7=279 (LC 1),

8=329 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-131/100, 2-3=-118/100, 3-4=-107/96,

4-5=-106/68

BOT CHORD 1-8=-38/101, 7-8=-38/61, 6-7=-38/61,

5-6=-38/80

WEBS 3-7=-198/0, 2-8=-249/155, 4-6=-248/154

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 6-8-8, Exterior(2R) 6-8-8 to 9-8-8, Interior (1) 9-8-8 to 13-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 1, 57 lb uplift at joint 8 and 57 lb uplift at joint 6.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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December 14,2023



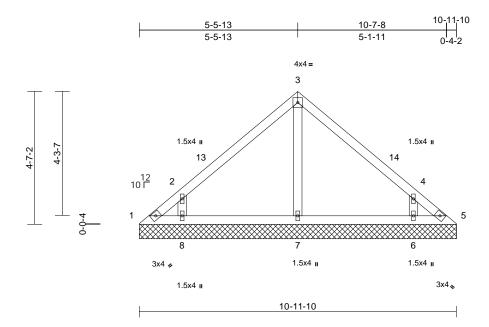
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	
1023-067	V08	Valley	1	1	T32353000 Job Reference (optional)

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:45 ID:xZ?amZqQYeSGHEuLQfqzRSyPF2x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 44 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size)

1=10-11-10, 5=10-11-10, 6=10-11-10, 7=10-11-10, 8=10-11-10

Max Horiz 1=-88 (LC 10)

Max Uplift 1=-37 (LC 10), 5=-15 (LC 11),

6=-52 (LC 12), 8=-52 (LC 12)

1=60 (LC 18), 5=43 (LC 17), 6=304 Max Grav (LC 18), 7=241 (LC 1), 8=308 (LC

17)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-90/86, 2-3=-144/96, 3-4=-141/92, TOP CHORD

4-5=-85/57

BOT CHORD 1-8=-29/64, 7-8=-17/64, 6-7=-17/64,

5-6=-36/64

WEBS 3-7=-154/6, 2-8=-271/215, 4-6=-270/215

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft: L=24ft: eave=4ft: Cat. II: Exp B: Enclosed: MWFRS (directional) and C-C Exterior(2E) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 5-6-2, Exterior(2R) 5-6-2 to 8-6-2, Interior (1) 8-6-2 to 10-11-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 15 lb uplift at joint 5, 52 lb uplift at joint 8 and 52 lb uplift at joint 6.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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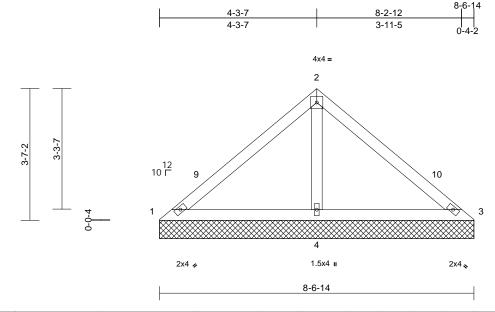
December 14,2023





Job	Truss	Truss Type	Qty	Ply		
1023-067	V09	Valley	1	1	T3 Job Reference (optional)	2353001

Run: 8 73 S. Nov 13 2023 Print: 8 730 S. Nov 13 2023 MiTek Industries. Inc. Wed Dec 13 08:11:45 ID: IWpTpGuZNB4YN? mIDDQ88WyPF2s-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? full filter for the property of Page: 1



Scale = 1:31.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 32 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 1=8-6-14, 3=8-6-14, 4=8-6-14

Max Horiz 1=-68 (LC 10)

Max Uplift 1=-22 (LC 24), 3=-22 (LC 23),

4=-41 (LC 12) 1=64 (LC 23), 3=64 (LC 24), 4=630 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=-110/261, 2-3=-106/261 **BOT CHORD** 1-4=-193/162, 3-4=-193/162

2-4=-467/209 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 4-3-12, Exterior(2R) 4-3-12 to 7-3-12, Interior (1) 7-3-12 to 8-7-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1, 22 lb uplift at joint 3 and 41 lb uplift at joint 4.
- 11) This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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December 14,2023



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

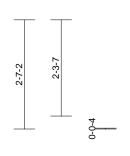


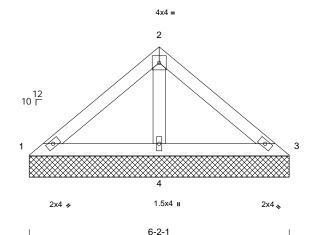
Job	Truss	Truss Type	Qty	Ply	
1023-067	V10	Valley	1	1	T32353002 Job Reference (optional)

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Page: 1







Scale = 1:27.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 23 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 1=6-2-1, 3=6-2-1, 4=6-2-1

Max Horiz 1=-48 (LC 10)

Max Uplift 4=-16 (LC 12)

Max Grav 1=66 (LC 23), 3=66 (LC 24), 4=398

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-58/141, 2-3=-56/141

BOT CHORD 1-4=-112/107, 3-4=-112/107

WFBS 2-4=-270/136

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.

- 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.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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December 14,2023



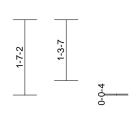


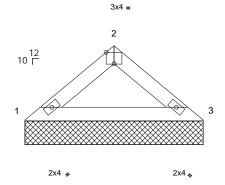
Job	Truss	Truss Type	Qty	Ply	
1023-067	V11	Valley	1	1	T32353003 Job Reference (optional)

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Page: 1







3-9-4

Scale = 1:24.4

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

		1										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins.

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

bracing.

REACTIONS (size) 1=3-9-4, 3=3-9-4

Max Horiz 1=28 (LC 11)

Max Grav 1=151 (LC 1), 3=151 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-201/74, 2-3=-201/73

BOT CHORD 1-3=-52/152

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc. 6)
- This truss has been designed for a 10.0 psf bottom 7) 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.
- 9) All bearings are assumed to be SP No.2.

LOAD CASE(S) Standard



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December 14,2023



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Job	Truss	Truss Type	Qty	Ply	
1023-067	V12	Valley	1	1	T32353004 Job Reference (optional)

Run: 8,73 S Nov 13 2023 Print: 8,730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:47 ID:FjWVxOXpuTI1E9KUqrtZohyPF21-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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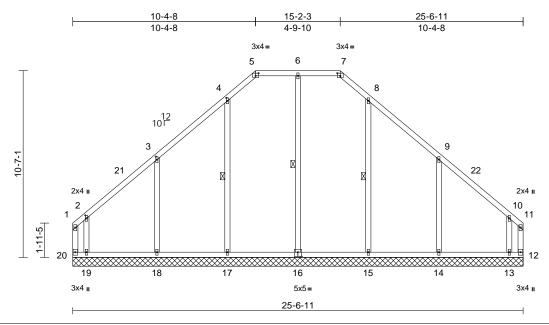


Plate Offsets (X, Y): [2:0-2-1,0-0-12], [3:0-2-1,0-0-12], [4:0-2-1,0-0-12], [5:0-2-0,0-1-13], [7:0-2-0,0-1-13], [16:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 153 lb	FT = 20%

LUMBER

Scale = 1:65.4

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

BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals BOT CHORD

Rigid ceiling directly applied. WFRS 1 Row at midpt

6-16, 8-15, 4-17 **REACTIONS** (size) 12=25-6-11, 13=25-6-11,

14=25-6-11, 15=25-6-11, 16=25-6-11, 17=25-6-11,

18=25-6-11, 19=25-6-11, 20=25-6-11

Max Horiz 20=220 (LC 11)

Max Uplift 12=-400 (LC 11), 13=-247 (LC 8), 14=-86 (LC 12), 18=-86 (LC 12),

19=-267 (LC 9), 20=-440 (LC 10) 12=311 (LC 10), 13=531 (LC 18),

Max Grav 14=444 (LC 18), 15=434 (LC 18), 16=387 (LC 19), 17=437 (LC 17), 18=443 (LC 17), 19=555 (LC 17),

20=349 (LC 11)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-20=-213/244, 1-2=-213/227, 2-3=-161/103,

3-4=-138/169, 4-5=-155/209, 5-6=-123/202, 6-7=-123/202, 7-8=-155/209, 8-9=-128/169,

9-10=-151/94. 10-11=-192/206.

11-12=-194/222 **BOT CHORD** 19-20=-110/124, 18-19=-110/124,

17-18=-110/124, 15-17=-110/124, 14-15=-110/124, 13-14=-110/124,

12-13=-110/124

WEBS 6-16=-222/0, 8-15=-230/40, 9-14=-272/187,

10-13=-310/242, 4-17=-234/42, 3-18=-272/187, 2-19=-321/249

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-1-12 to 3-1-12. Exterior(2N) 3-1-12 to 10-4-8. Corner(3R) 10-4-8 to 13-4-8. Exterior(2N) 13-4-8 to 15-2-3. Corner(3R) 15-2-3 to 18-2-3, Exterior(2N) 18-2-3 to 25-4-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated. 6) Gable requires continuous bottom chord bearing. 7)
- Truss to be fully sheathed from one face or securely 8) braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 4-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) All bearings are assumed to be SP No.2
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 440 lb uplift at joint 20, 400 lb uplift at joint 12, 86 lb uplift at joint 14, 247 lb uplift at joint 13, 86 lb uplift at joint 18 and 267 lb uplift at ioint 19.

14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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

December 14,2023

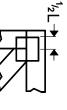


🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

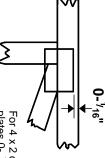


Symbols

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 software or upon request.

PLATE SIZE

4 × 4

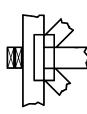
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

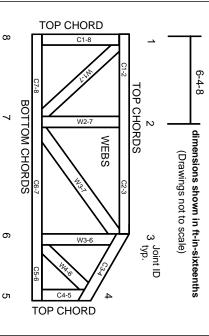
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

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.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 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.
- The design does not take into account any dynamic or other loads other than those expressly stated.