

RE: P230397-01

Roof - CB Lot 149

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017

314.434.1200

Site Information:

Customer: Clover & Hive Project Name: P230397-01 Lot/Block: 149 Model:

Address: 3513 SE Corbin Dr Subdivision: Cobey Creek

City: Lee's Summit State: MO

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.6

Wind Code: ASCE 7-16 Wind Speed: 115 mph Roof Load: 45.0 psf Floor Load: N/A psf

This package includes 32 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	160735712	A01	9/13/2023	21	160735732	LG01	9/13/2023
2	160735713	B01	9/13/2023	22	160735733	LG02	9/13/2023
3	160735714	B02	9/13/2023	23	160735734	LG03	9/13/2023
4	160735715	B03	9/13/2023	24	160735735	LG04	9/13/2023
5	160735716	B04	9/13/2023	25	160735736	V01	9/13/2023
6	160735717	B05	9/13/2023	26	160735737	V02	9/13/2023
7	160735718	B06	9/13/2023	27	160735738	V03	9/13/2023
8	160735719	B07	9/13/2023	28	160735739	V04	9/13/2023
9	160735720	B08	9/13/2023	29	160735740	V05	9/13/2023
10	160735721	B09	9/13/2023	30	160735741	V06	9/13/2023
11	160735722	B10	9/13/2023	31	160735742	V07	9/13/2023
12	160735723	C01	9/13/2023	32	160735743	V08	9/13/2023
13	160735724	C02	9/13/2023				
14	160735725	C03	9/13/2023				
15	160735726	CJ01	9/13/2023				
16	160735727	D01	9/13/2023				
17	160735728	D02	9/13/2023				

9/13/2023

9/13/2023

9/13/2023

The truss drawing(s) referenced above have been prepared by

J01

J02

J03

MiTek USA, Inc under my direct supervision based on the parameters provided by .

Truss Design Engineer's Name: Nathan Fox

My license renewal date for the state of Missouri is December 31, 2024.

Missouri COA: 001193

160735729

160735730

160735731

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19

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

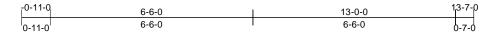


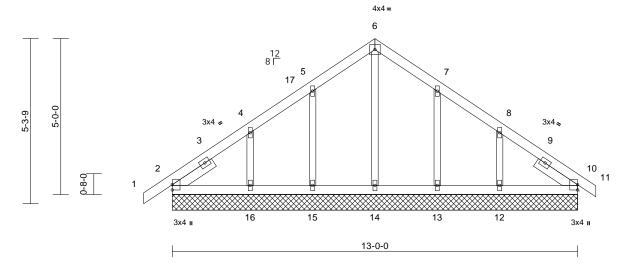
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Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	A01	Common Supported Gable	1	1	Job Reference (optional)	160735712

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:29 ID:p7nZ_J5GH7L??3Ov?fiETHyx7_m-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:36.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 62 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-6-4, Right 2x4 SP No.2

-- 1-6-4

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)

2=13-0-0, 10=13-0-0, 12=13-0-0, 13=13-0-0, 14=13-0-0, 15=13-0-0,

16=13-0-0

Max Horiz 2=136 (LC 15)

Max Uplift 2=-30 (LC 17), 10=-7 (LC 16),

12=-114 (LC 17), 13=-72 (LC 17), 15=-73 (LC 16), 16=-114 (LC 16)

Max Grav 2=218 (LC 23), 10=187 (LC 24), 12=317 (LC 24), 13=277 (LC 24), 14=139 (LC 29), 15=280 (LC 23),

16=306 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-4=-161/84, 4-5=-119/115,

5-6=-126/200, 6-7=-127/201, 7-8=-122/109,

8-10=-124/40, 10-11=0/5 BOT CHORD 2-16=-36/103, 15-16=-36/103,

14-15=-36/103, 13-14=-36/103

12-13=-36/103, 10-12=-36/103

6-14=-127/30, 5-15=-245/137,

4-16=-251/210, 7-13=-243/141,

8-12=-260/221

NOTES

WEBS

 Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 4-1-0, Exterior(2N) 4-1-0 to 6-6-0, Corner(3R) 6-6-0 to 11-6-0, Exterior(2N) 11-6-0 to 13-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; cord 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) 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.
- 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.
- 12) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 2, 7 lb uplift at joint 10, 73 lb uplift at joint 15, 114 lb uplift at joint 16, 72 lb uplift at joint 13 and 114 lb uplift at joint

14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2023

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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job Truss Truss Type Qty Ply Roof - CB Lot 149 160735713 P230397-01 B01 Common Structural Gable Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

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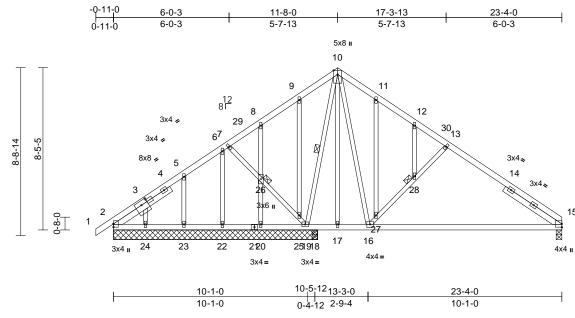


Plate Offsets (X, Y): [2:2-1-1,0-1-8], [3:0-4-0,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.24	15-16	>646	240	MT20	197/144
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.49	15-16	>316	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.01	15	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0	1									Weight: 140 lb	FT = 20%

LUMBER

Scale = 1:59.9

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

SLIDER Left 2x4 SP No.2 -- 3-6-6, Right 2x4 SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

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

bracing. WFBS 1 Row at midpt

JOINTS 1 Brace at Jt(s): 26,

REACTIONS (size)

BOT CHORD

2=10-7-8, 15=0-3-8, 18=0-3-8, 19=10-7-8, 20=10-7-8, 22=10-7-8,

23=10-7-8, 24=10-7-8

Max Horiz 2=229 (LC 13)

Max Uplift 2=-70 (LC 12), 15=-133 (LC 17), 19=-57 (LC 16), 20=-97 (LC 16),

23=-90 (LC 16), 24=-86 (LC 16) Max Grav 2=223 (LC 27), 15=678 (LC 24),

18=283 (LC 24), 19=461 (LC 24),

20=349 (LC 23), 22=135 (LC 1), 23=198 (LC 26), 24=174 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/31, 2-3=-236/147, 3-5=-218/138 5-6=-192/150, 6-7=-170/155, 7-8=-164/160,

8-9=-162/199, 9-10=-162/224, 10-11=-412/247, 11-12=-380/174, 12-13=-508/169, 13-15=-805/203 2-24=-61/129, 23-24=-61/125,

22-23=-61/125, 20-22=-61/125 19-20=-61/125, 18-19=-2/183, 17-18=-2/183,

16-17=0/186, 15-16=-55/593

WEBS

10-16=-124/809, 16-27=-598/323, 27-28=-395/241. 13-28=-413/251. 10-19=-575/16, 7-26=-51/74, 25-26=-34/61, 19-25=-166/119. 10-17=-267/0. 9-25=-202/77. 8-26=-249/106. 20-26=-302/125, 6-22=-97/15, 5-23=-157/115, 3-24=-136/109

11-27=-268/110. 12-28=-15/25

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16: Vult=115mph (3-second aust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 11-10-14, Exterior(2R) 11-10-14 to 16-10-14, Interior (1) 16-10-14 to 23-4-0 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
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads
- All plates are 1.5x4 MT20 unless otherwise indicated.
- 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.
- 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 15, 70 lb uplift at joint 2, 57 lb uplift at joint 19, 97 lb uplift at joint 20, 90 lb uplift at joint 23 and 86 lb uplift at joint 24.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

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Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	B02	Common	6	1	Job Reference (optional)	160735714

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:31 ID:XaRBDMetweulHqlMavUZFZyx7_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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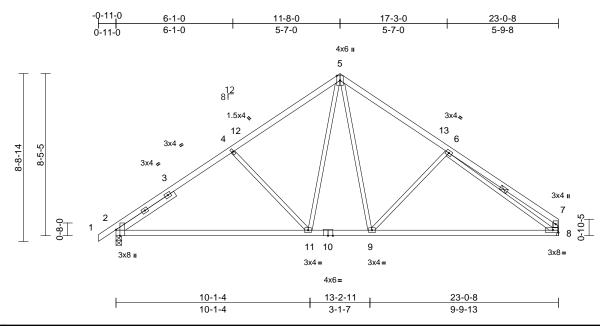


Plate Offsets (X, Y): [2:0-3-13,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.27	2-11	>999	240	MT20	197/144
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.56	2-11	>494	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 111 lb	FT = 20%

LUMBER

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

WEBS 2x3 SPF No.2 *Except* 8-7:2x4 SP No.2 SLIDER Left 2x4 SP No.2 -- 3-7-6

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

WEBS 6-8 1 Row at midpt

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

Max Horiz 2=241 (LC 13)

Max Uplift 2=-169 (LC 16), 8=-142 (LC 17)

Max Grav 2=1141 (LC 23), 8=1072 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-4=-1480/251, 4-5=-1188/257

5-6=-1170/257, 6-7=-500/111, 7-8=-403/125

BOT CHORD 2-11=-233/1144, 9-11=-20/750,

WEBS 4-11=-448/275, 5-11=-121/476, 5-9=-118/419,

6-9=-403/268, 6-8=-995/178

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 11-8-0, Exterior(2R) 11-8-0 to 16-8-0, Interior (1) 16-8-0 to 22-10-12 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

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate $DOL{=}1.15); Is{=}1.0; Rough Cat C; Fully Exp.; Ce{=}0.9; \\$ Cs=1.00: Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 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 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 169 lb uplift at joint 2 and 142 lb uplift at joint 8.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2023

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

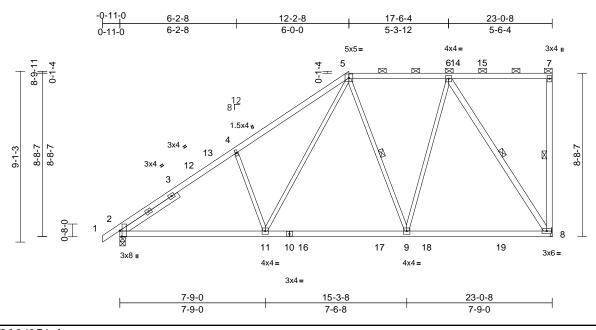
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	B03	Half Hip	1	1	Job Reference (optional)	160735715

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Page: 1



Scale = 1:61.4

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.15	8-9	>999	240	MT20	197/144
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.25	8-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 131 lb	FT = 20%

LUMBER

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

WEBS 2x3 SPF No.2 *Except* 7-8,8-6:2x4 SP No.2 SLIDER Left 2x4 SP No.2 -- 3-8-5

BRACING TOP CHORD

Structural wood sheathing directly applied,

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

(5-3-4 max.): 5-7.

BOT CHORD Rigid ceiling directly applied or 8-5-11 oc

bracing. **WEBS**

1 Row at midpt 7-8, 5-9, 6-8 REACTIONS 2=0-3-8. 8= Mechanical (size)

Max Horiz 2=362 (LC 13)

Max Uplift 2=-167 (LC 16), 8=-229 (LC 13)

Max Grav 2=1516 (LC 38), 8=1400 (LC 39)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/31, 2-4=-1962/206, 4-5=-1719/317,

5-6=-797/216, 6-7=-172/179, 7-8=-277/82

BOT CHORD 2-11=-472/1579, 9-11=-320/888,

8-9=-234/685 **WEBS**

4-11=-682/299, 5-11=-211/1021,

5-9=-451/195, 6-9=-74/786, 6-8=-1245/241

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0. Interior (1) 4-1-0 to 12-2-8, Exterior(2R) 12-2-8 to 19-3-6, Interior (1) 19-3-6 to 22-10-12 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

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 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.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 8 and 167 lb uplift at joint 2.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) 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



September 13,2023

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Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	B04	Half Hip	1	1	Job Reference (optional)	160735716

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:32 ID:Un8ELUH6RwZE8zIYAXx_vkyx6zF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

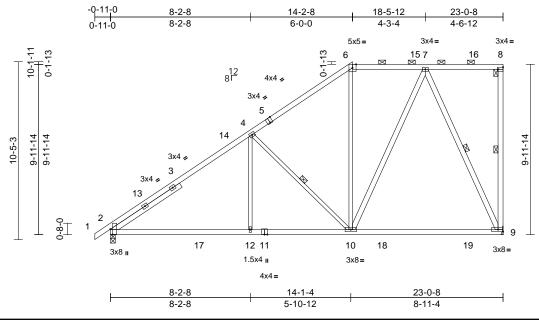


Plate Offsets (X, Y): [2:0-3-13,Edge], [5:0-2-0,Edge], [8:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.35	9-10	>778	240	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.55	9-10	>504	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.04	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 145 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 1-5:2x4 SP 1650F TOP CHORD

1.5E

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2 *Except* 4-12,10-4,10-6:2x3 SPF No.2

SLIDER Left 2x4 SP No.2 -- 4-10-10

BRACING

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

(6-0-0 max.): 6-8.

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

bracing.

WEBS 1 Row at midpt 8-9, 4-10, 7-9 REACTIONS (size) 2=0-3-8. 9= Mechanical

Max Horiz 2=417 (LC 13)

Max Uplift 2=-171 (LC 16), 9=-229 (LC 13) Max Grav 2=1491 (LC 42), 9=1316 (LC 39)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-4=-1911/186, 4-6=-1133/241, 6-7=-760/227, 7-8=-195/204, 8-9=-229/81 **BOT CHORD**

2-12=-448/1552, 10-12=-448/1552, 9-10=-239/477

4-12=0/317, 4-10=-1018/293, 6-10=-29/235,

7-10=-151/925, 7-9=-1062/289

WEBS NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 14-2-8, Exterior(2R) 14-2-8 to 21-3-6, Interior (1) 21-3-6 to 22-10-12 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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 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.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 9 and 171 lb uplift at joint 2.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) 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



September 13,2023

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

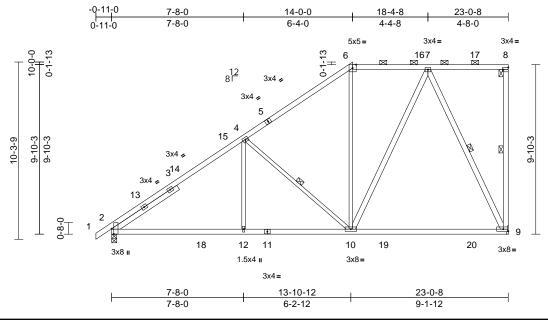
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



J	ob	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
F	230397-01	B05	Half Hip	1	1	Job Reference (optional)	160735717

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:33 ID:bYyadlexN8LzlabJxqT073yx6yn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.36	9-10	>770	240	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.55	9-10	>500	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.04	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 144 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-5:2x4 SP 1650F

1.5E

BOT CHORD 2x4 SP No.2 *Except* 11-9:2x4 SP 1650F 1.5E

WEBS 2x4

S 2x4 SP No.2 *Except* 4-12,10-4,10-6:2x3

SPF No.2 SLIDER Left 2x4 SP No.2 -- 4-6-11

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-6-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.

BOT CHORD Rigid ceiling directly applied or 8-7-5 oc

bracing.

WEBS 1 Row at midpt 8-9, 4-10, 7-9

REACTIONS (size) 2=0-3-8, 9= Mechanical Max Horiz 2=411 (LC 13)

Max Uplift 2=-171 (LC 16), 9=-229 (LC 13)

Max Grav 2=1487 (LC 42), 9=1323 (LC 39)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-4=-1947/192, 4-6=-1156/235,

6-7=-777/226, 7-8=-193/201, 8-9=-234/80

BOT CHORD 2-12=-456/1584, 10-12=-456/1584,

9-10=-240/491

WEBS 4-12=0/295, 4-10=-987/288, 6-10=-18/219,

7-10=-149/918, 7-9=-1074/284

NOTES

 Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 14-0-0, Exterior(2R) 14-0-0 to 21-0-14, Interior (1) 21-0-14 to 22-10-12 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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 6) 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.
- 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, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- 10) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 9 and 171 lb uplift at joint 2.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) 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



September 13,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	B06	Half Hip	1	1	Job Reference (optional)	160735718

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:33 ID:jKmvw??IJM7jLBu4h803LOyx6yJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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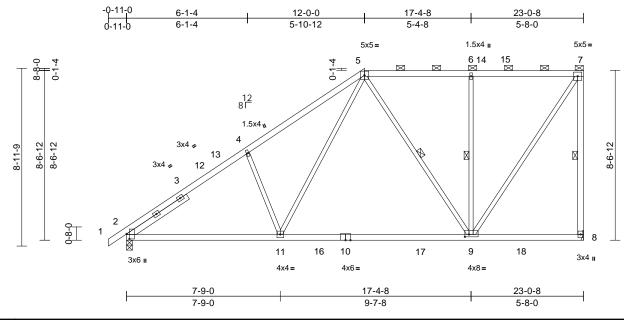


Plate Offsets (X, Y): [2:0-3-1,0-1-11], [9:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.33	9-11	>824	240	MT20	197/144
Snow (Pf)	25.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.52	9-11	>533	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.03	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 124 lb	FT = 20%

LUMBER

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

WEBS 2x3 SPF No.2 *Except* 7-8:2x4 SP No.2

SLIDER Left 2x4 SP No.2 -- 3-7-9

BRACING

TOP CHORD Structural wood sheathing directly applied,

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

(3-9-12 max.): 5-7.

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

bracing. **WEBS**

1 Row at midpt 7-8, 5-9, 6-9 REACTIONS (size) 2=0-3-8. 8= Mechanical

Max Horiz 2=356 (LC 13)

Max Uplift 2=-166 (LC 16), 8=-229 (LC 13)

Max Grav 2=1507 (LC 38), 8=1412 (LC 39)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-4=-1962/200, 4-5=-1711/302

5-6=-747/221, 6-7=-745/220, 7-8=-1352/237

BOT CHORD 2-11=-467/1581, 9-11=-325/873, 8-9=-157/175

WEBS 4-11=-660/293, 5-11=-180/1070,

5-9=-528/192, 6-9=-814/213, 7-9=-211/1324

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0. Interior (1) 4-1-0 to 12-0-0, Exterior(2R) 12-0-0 to 19-0-14, Interior (1) 19-0-14 to 22-10-12 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

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 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.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 8 and 166 lb uplift at joint 2.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) 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



September 13,2023

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

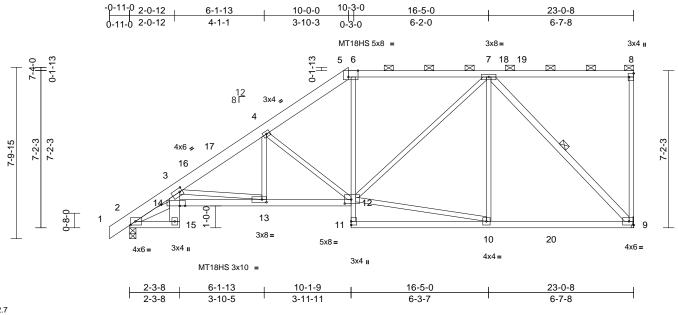
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	B07	Half Hip	1	1	Job Reference (optional)	160735719

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:34 ID:8j1KGTfdbyx3qU0SsU_jXnyx6xT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:52.7

Plate Offsets (X, Y): [2:0-2-11,0-2-0], [3:0-1-8,0-2-0], [5:0-5-5,Edge], [8:Edge,0-2-8], [12:0-3-8,0-2-4], [13:0-2-8,0-1-8], [14:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.13	13-14	>999	240	MT20	197/144
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.20	13-14	>999	180	MT18HS	113/123
TCDL	10.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.13	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 134 lb	FT = 20%

LUMBER

2x6 SPF No.2 *Except* 5-8:2x4 SP 1650F TOP CHORD

1.5E

BOT CHORD 2x4 SP No.2 *Except* 15-3:1 1/2" x 5 1/2" 2.0E Microllam® LVL, 14-12:2x4 SP 1650F

1.5E, 6-11:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 9-7,2-14:2x4 SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or 4-1-3 oc purlins, except end verticals, and

2-0-0 oc purlins (5-4-3 max.): 5-8.

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

bracing.

WEBS 1 Row at midpt 7-9

REACTIONS 2=0-3-8. 9= Mechanical (size)

Max Horiz 2=301 (LC 15)

Max Uplift 2=-157 (LC 16), 9=-226 (LC 13)

Max Grav 2=1461 (LC 38), 9=1487 (LC 37)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/55, 2-3=-2562/296, 3-4=-2158/243,

4-5=-1454/215, 5-6=-1220/210,

6-7=-1225/211, 7-8=-143/150, 8-9=-335/93

2-15=-234/1029, 14-15=-19/22, BOT CHORD

3-14=-89/411, 13-14=-878/3355,

12-13=-528/1830, 11-12=0/102,

6-12=-15/468, 10-11=-8/66, 9-10=-227/1049

WEBS 10-12=-224/1000, 7-12=-182/563,

7-10=-17/273, 7-9=-1509/239, 4-13=-10/446,

3-13=-1546/354, 2-14=-394/1092,

4-12=-990/232

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 10-0-0. Exterior(2R) 10-0-0 to 17-0-14, Interior (1) 17-0-14 to 22-11-4 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 TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- 11) Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 226 lb uplift at joint 9 and 157 lb uplift at joint 2.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



September 13,2023

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

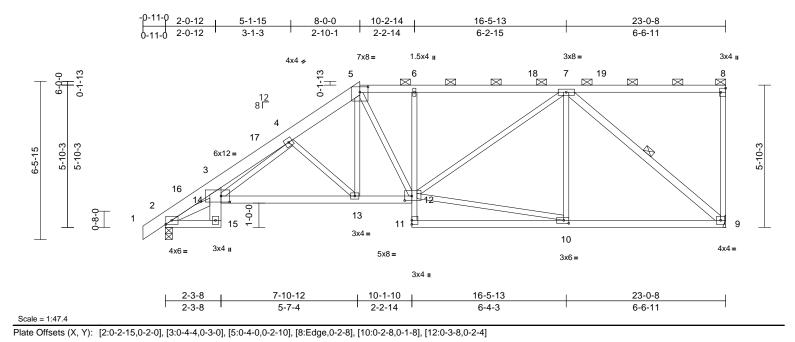
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	B08	Half Hip	1	1	Job Reference (optional)	160735720

Run: 8.63 S. Aug 30 2023 Print: 8.630 S. Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:34 ID:8F5BO53ybPDEvjd?rdbhvyyx6wx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



LUMBER

Loading

TCLL (roof)

Snow (Pf)

TCDL

BCLL

BCDL

TOP CHORD 2x6 SPF No.2 *Except* 5-8:2x4 SP 1650F

(psf)

25.0

25.0

10.0

0.0

10.0

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

1.5E

BOT CHORD 2x4 SP No.2 *Except* 15-3:2x6 SP 2400F

2.0E, 6-11:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 9-7,2-14:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-4 oc purlins, except end verticals, and

2-0-0 oc purlins (4-5-3 max.): 5-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 14-15 8-1-8 oc bracing: 13-14

WEBS 1 Row at midpt 7-9

REACTIONS (size) 2=0-3-8, 9= Mechanical Max Horiz 2=244 (LC 15)

Max Uplift 2=-142 (LC 16), 9=-226 (LC 13)

Max Grav 2=1350 (LC 38), 9=1560 (LC 37)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/55, 2-3=-2338/293, 3-4=-3241/578,

4-5=-1908/246, 5-6=-1790/255,

6-7=-1791/256, 7-8=-121/124, 8-9=-334/89 BOT CHORD 2-15=-221/876, 14-15=-10/26,

2-15=-221/876, 14-15=-10/26, 3-14=-459/149, 13-14=-528/1892,

12-13=-343/1533, 11-12=0/105,

6-12=-606/156, 10-11=-2/116,

9-10=-253/1374

WEBS 5-12=-190/580, 10-12=-254/1273, 7-12=-160/541, 7-10=-63/213,

7-9=-1790/265, 5-13=-103/684,

4-13=-811/243, 4-14=-340/1264,

2-14=-368/970

NOTES

 Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 8-0-0, Exterior(2R) 8-0-0 to 15-0-14, Interior (1) 15-0-14 to 22-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; cnd vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

0.83

0.63

in

-0.11

-0.21

0.12

(loc)

13-14

13-14

I/defI

>999

>999

L/d

240

180

PLATES

Weight: 131 lb

MT20

GRIP

197/144

FT = 20%

CSI

TC

BC

WB

Matrix-S

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 6) 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 2 SP No.2 crushing capacity of 565 psi.
- 10) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 226 lb uplift at joint 9 and 142 lb uplift at joint 2.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) 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



September 13,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

2-0-0

1.15

1.15

IRC2018/TPI2014



Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	B09	Half Hip	1	1	Job Reference (optional)	160735721

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:35 ID:CP0H61S02EFhkd38jLABCiyx6wR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

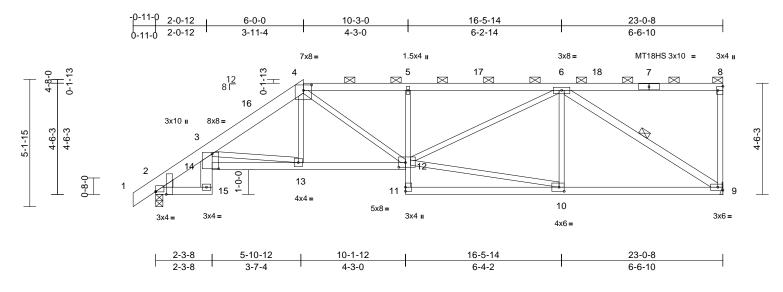


Plate Offsets (X, Y): [2:Edge,0-0-3], [2:0-1-6,Edge], [3:0-3-4,0-7-4], [4:0-4-0,0-2-10], [8:Edge,0-2-8], [10:0-2-8,0-2-0], [12:0-3-4,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.17	5	>999	240	MT20	197/144
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.25	5	>999	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.17	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 119 lb	FT = 20%

LUMBER

2x6 SPF No.2 *Except* 4-7:2x4 SP 1650F TOP CHORD

1.5E, 7-8:2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 15-3:1 1/2" x 5 1/2" 2.0E Microllam® LVL, 5-11:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 9-6:2x4 SP No.2 WEDGE Left: 2x4 SP No.2

BRACING

TOP CHORD

Structural wood sheathing directly applied or 4-2-13 oc purlins, except end verticals, and

2-0-0 oc purlins (3-6-1 max.): 4-8.

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

bracing, Except:

6-11-13 oc bracing: 13-14 9-9-2 oc bracing: 12-13.

WEBS 1 Row at midpt 6-9 REACTIONS (size) 2=0-3-8, 9= Mechanical

Max Horiz 2=187 (LC 13)

Max Uplift 2=-124 (LC 16), 9=-226 (LC 13)

Max Grav 2=1242 (LC 37), 9=1602 (LC 37)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/44, 2-3=-1642/168, 3-4=-2303/312,

4-5=-2707/389, 5-6=-2699/389, 6-8=-98/95,

BOT CHORD 2-15=-286/1109, 14-15=-2/66, 3-14=0/107,

13-14=-713/2745, 12-13=-367/1936,

11-12=0/105, 5-12=-666/173, 10-11=-14/140, 9-10=-304/1866

WEBS 4-12=-214/969, 10-12=-294/1748,

6-12=-180/938, 6-10=-143/179, 6-9=-2196/314, 4-13=-19/321,

3-13=-1130/389

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 6-0-0, Exterior(2R) 6-0-0 to 13-0-14, Interior (1) 13-0-14 to 22-11-4 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- 11) Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 226 lb uplift at joint 9 and 124 lb uplift at joint 2.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



September 13,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

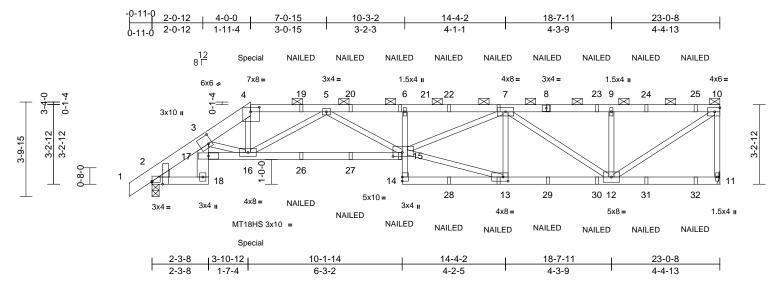
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

LEE'S' SUMNITUS MISSOURI 03/20/2024 1:00:58

Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	B10	Half Hip Girder	1	2	Job Reference (optional)	160735722

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:36 ID:9LCugLucaIna39p3qvpefHyx6vt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:46.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.29	15-16	>935	240	MT20	197/144
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.41	15-16	>662	180	MT18HS	113/123
TCDL	10.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.17	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 218 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-4:2x6 SPF No.2 **BOT CHORD** 2x4 SP No.2 *Except* 18-3:1 1/2" x 5 1/2"

2.0E Microllam® LVL, 17-15:2x4 SP 1650F

1.5E, 6-14:2x3 SPF No.2 **WEBS** 2x3 SPF No.2

WEDGE Left: 2x4 SP No.2

BRACING

BOT CHORD

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

2-0-0 oc purlins (4-2-3 max.): 4-10.

Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=132 (LC 15)

Max Uplift 2=-528 (LC 16), 11=-611 (LC 13)

Max Grav 2=2212 (LC 37), 11=2378 (LC 37)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/44, 2-3=-3017/724, 3-4=-5061/1318,

4-5=-4253/1125, 5-6=-7143/1807,

6-7=-7038/1785, 7-9=-2928/757,

9-10=-2928/757, 10-11=-2308/638

2-18=-607/2057, 17-18=-16/105,

3-17=-189/73, 16-17=-1464/4974, 15-16=-1576/5993, 14-15=0/99,

6-15=-488/145, 13-14=-50/225,

12-13=-1168/4468, 11-12=-51/77

5-15=-367/1347, 13-15=-1151/4368,

7-15=-741/2845, 7-13=-933/358,

7-12=-1865/473, 9-12=-798/332,

10-12=-898/3502, 3-16=-729/293,

4-16=-587/2244, 5-16=-2038/511

NOTES

WEBS

- 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. 2x4 - 1 row at 0-9-0 oc. 2x3 - 1
 - row at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x3 - 1 row
 - at 0-9-0 oc Web connected as follows: 2x3 - 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.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-0-0, Exterior(2R) 4-0-0 to 11-0-14, Interior (1) 11-0-14 to 22-11-4 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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 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) Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 611 lb uplift at joint 11 and 528 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.



September 13,2023

Continued on page 2

- 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	Roof - CB Lot 149	
P230397-01	B10	Half Hip Girder	1	2	Job Reference (optional)	160735722

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:36 ID:9LCugLucalna39p3qvpefHyx6vt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 157 lb down and 89 lb up at 4-0-0 on top chord, and 387 lb down and 166 lb up at 4-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1 15 Uniform Loads (lb/ft) Vert: 1-4=-70, 4-10=-70, 2-18=-20, 15-17=-20, 11-14=-20 Concentrated Loads (lb) Vert: 4=-26 (B), 8=-147 (B), 15=-152 (B), 6=-14 (B), 13=-19 (B), 7=-147 (B), 16=-387 (B), 19=-14 (B), 20=-14 (B), 22=-147 (B), 23=-147 (B), 24=-147 (B),

25=-152 (B), 26=-152 (B), 27=-152 (B), 28=-19 (B), 29=-19 (B), 30=-19 (B), 31=-19 (B), 32=-21 (B)

Page: 2

Job Truss Truss Type Qty Ply Roof - CB Lot 149 160735723 P230397-01 C01 2 Common Girder Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:37 ID:la51|ITjG2qmpYUHe_gucPyx6v7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

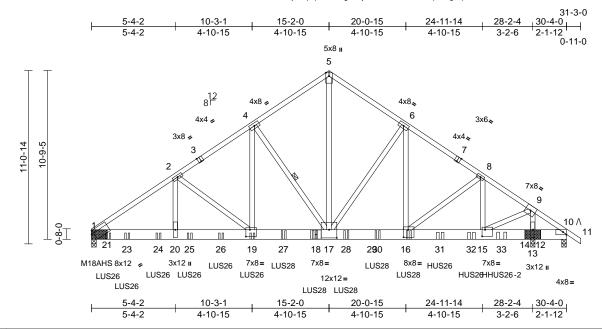


Plate Offsets (X, Y): [1:Edge,0-2-6], [3:0-2-0,Edge], [7:0-2-0,Edge], [15:0-2-4,0-5-0], [16:0-3-8,0-5-12], [17:0-6-0,0-6-4], [19:0-3-0,0-5-4]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.22	17-19	>999	240	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.34	17-19	>987	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.07	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 508 lb	FT = 20%

LUMBER

BRACING

Scale = 1:73.6

2x4 SP 1650F 1.5E *Except* 1-3:2x4 SP TOP CHORD

2400F 2.0E, 7-11:2x4 SP No.2

BOT CHORD 2x8 SP 2400F 2.0E

WEBS 2x4 SP No.2 *Except* 17-5,15-9:2x4 SP

1650F 1.5E

TOP CHORD

Structural wood sheathing directly applied or

2-11-4 oc purlins.

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

bracing.

WEBS 1 Row at midpt 4-17

REACTIONS (size)

1=(0-3-8 + bearing block), (req. 0-4-2), 10=0-3-8, 13=(0-3-6+

bearing block), (reg. 0-4-11)

Max Horiz 1=-295 (LC 12) Max Uplift 1=-1513 (LC 16), 10=REL,

13=-2931 (LC 17)

1=9962 (LC 23), 10=830 (LC 16), Max Grav

13=11360 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-14040/2142, 2-4=-11372/1837, TOP CHORD

4-5=-8800/1523, 5-6=-8758/1524, 6-8=-10886/1716, 8-9=-10418/1373

9-10=-1501/0, 10-11=0/47

1-20=-1833/11326, 19-20=-1833/11326, 17-19=-1448/9389, 16-17=-1250/8997,

15-16=-1032/8613, 13-15=0/1138,

10-13=0/1138

WEBS 2-20=-367/3033, 2-19=-2477/485,

4-19=-638/4155, 4-17=-3841/745, 5-17=-1545/9243, 6-17=-3221/577 6-16=-453/3389, 9-13=-8844/2169,

9-15=-1891/8436, 8-16=-275/897, 8-15=-1247/420

NOTES

BOT CHORD

- 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 0-6-0
 - Bottom chords connected as follows: 2x8 4 rows staggered at 0-7-0 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.
- 2x8 SP 2400F 2.0E bearing block 12" long at jt. 1 attached to each face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners per block. Bearing is assumed to be SP 2400F 2.0E
- 2x8 SP 2400F 2.0E bearing block 12" long at jt. 13 attached to each face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners per block. Bearing is assumed to be SP 2400F 2.0E
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-4-2. Interior (1) 5-4-2 to 15-2-0. Exterior(2R) 15-2-0 to 20-0-15, Interior (1) 20-0-15 to 31-3-0 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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 9) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 10) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 13) All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1513 lb uplift at joint 1 and 2931 lb uplift at joint 13.
- 15) "\" indicates Released bearing: allow for upward movement at joint(s) 10.
- 16) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



September 13,2023

Continued on page 2

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

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

LEE'S'SUMMITUS MISSOURI 03/20/2024 1:00:58

Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	C01	Common Girder	1	2	Job Reference (optional)	160735723

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:37

17) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-0-12 from the left end to 10-3-4 to connect truss(es) to

back face of bottom chord.

18) Use Simpson Strong-Tie LUS28 (6-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent spaced at 6-0-0 oc max. starting at 12-3-4 from the left end to 20-3-4 to connect truss(es) to back face of bottom chord.

19) Use Simpson Strong-Tie LUS28 (6-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 14-3-4 from the left end to 16-3-4 to connect truss(es) to back face of bottom chord.

20) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 22-3-4 from the left end to 24-3-4 to connect truss(es) to back face of bottom chord.

21) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 26-2-7 from the left end to connect truss(es) to back face of bottom chord.

22) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-5=-70, 5-11=-70, 1-10=-20

Concentrated Loads (lb)

Vert: 18=-1254 (B), 19=-1052 (B), 16=-1467 (B), 21=-1053 (B), 23=-1052 (B), 24=-1052 (B),

25=-1052 (B), 26=-1052 (B), 27=-1360 (B),

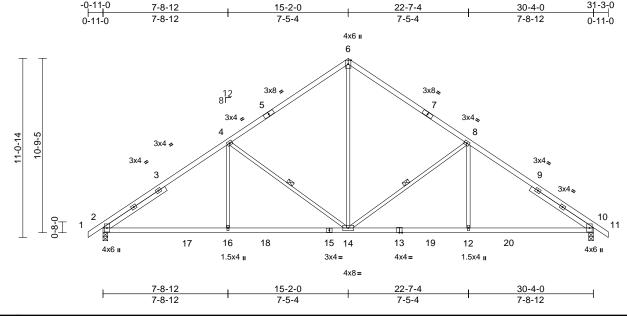
28=-1266 (B), 30=-1370 (B), 31=-1540 (B),

32=-1582 (B), 33=-2358 (B)

Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	C02	Common	3	1	Job Reference (optional)	160735724

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:38 ID:S1Ig_o?JvZNX5IrIDDTDOhyx6uR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:71.3

Plate Offsets (X, Y):	[2:0-3-5,0-0-15], [10:0-3-5,0-0-15]
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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.12	10-12	>999	240	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.23	10-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.08	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 148 lb	FT = 20%

LUMBER

2x4 SP 2400F 2.0E *Except* 1-5,7-11:2x4 SP TOP CHORD

1650F 1.5E

2x4 SP No.2 **BOT CHORD** WEBS 2x3 SPF No.2

SLIDER Left 2x4 SP No.2 -- 4-7-2, Right 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins.

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

bracing.

WEBS 1 Row at midpt 8-14, 4-14

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

Max Horiz 2=-299 (LC 14) Max Uplift 2=-216 (LC 16), 10=-216 (LC 17)

Max Grav 2=1597 (LC 26), 10=1597 (LC 27)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/31, 2-4=-2143/284, 4-6=-1491/320,

TOP CHORD 6-8=-1491/320, 8-10=-2144/284, 10-11=0/31

BOT CHORD 2-16=-276/1872, 14-16=-276/1872,

12-14=-106/1673, 10-12=-106/1673

WEBS 6-14=-149/1072, 8-14=-811/306, 8-12=0/412,

4-14=-810/306, 4-16=0/412

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 15-2-0. Exterior(2R) 15-2-0 to 20-2-0, Interior (1) 20-2-0 to 31-3-0 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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 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 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 2 and 216 lb uplift at joint 10.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	C03	Hip Girder	1	2	Job Reference (optional)	160735725

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:39 ID:m?rts4KhE263g2hh6cwmJgyx6sk-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

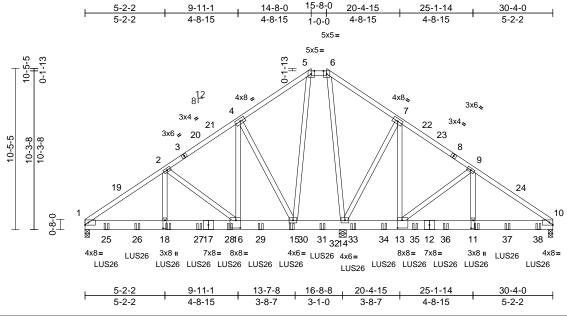


Plate Offsets (X, Y): [11:0-6-4,0-1-8], [13:0-3-8,0-6-0], [16:0-3-8,0-6-0], [18:0-6-4,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.14	15-16	>999	240	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.21	15-16	>939	180	1	
TCDL	10.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.03	10	n/a	n/a	1	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S							1	
BCDL	10.0	1									Weight: 463 lb	FT = 20%

LUMBER

Scale = 1:74.7

TOP CHORD 2x4 SP No.2

BOT CHORD 2x8 SPF No.2 *Except* 12-17:2x8 SP 2400F

2.0E WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-8-7 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.

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

bracing.

REACTIONS (size) 1=0-3-8, 10=0-3-8, 14=0-5-8

Max Horiz 1=277 (LC 15)

Max Uplift 1=-534 (LC 16), 10=-392 (LC 17),

14=-1001 (LC 17)

Max Grav 1=4032 (LC 40), 10=3403 (LC 40),

14=7508 (LC 40)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5368/697, 2-4=-3356/502, 4-5=-1227/286, 5-6=-732/262, 6-7=-809/273,

7-9=-1818/288, 9-10=-4182/500

BOT CHORD 1-18=-663/4260, 16-18=-663/4260,

15-16=-438/2670, 14-15=-194/774, 13-14=-179/1364, 11-13=-342/3306,

10-11=-342/3306

WEBS 2-18=-205/1970, 2-16=-2004/377,

4-16=-552/3936, 7-13=-262/1599,

9-13=-2447/440, 9-11=-248/2321, 6-14=-880/120, 5-15=-202/1210,

7-14=-060/120, 5-15=-202/1210, 7-14=-1660/406, 4-15=-3934/687

NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.
 - Bottom chords connected as follows: 2x8 2 rows staggered at 0-8-0 oc.
- Web connected as follows: 2x4 1 row at 0-9-0 oc.
 All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-2-2, Interior (1) 5-2-2 to 14-8-0, Exterior(2E) 14-8-0 to 15-8-0, Exterior(2R) 15-8-0 to 22-8-14, Interior (1) 22-8-14 to 30-2-4 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
- 5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 7) 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.
- 9) * 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.

- Bearings are assumed to be: Joint 1 SPF No.2 crushing capacity of 425 psi, Joint 14 SP 2400F 2.0E crushing capacity of 805 psi, Joint 10 SPF No.2 crushing capacity of 425 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 534 lb uplift at joint 1, 392 lb uplift at joint 10 and 1001 lb uplift at joint 14.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 16-0-0 oc max. starting at 1-4-12 from the left end to 29-4-12 to connect truss(es) to front face of bottom chord.
- 15) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 9-4-12 from the left end to 21-4-12 to connect truss(es) to front face of bottom chord.



September 13,2023

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

RELEASE TO REPORT RUCTION AS NOTED ON LANS REVIEW DEVELOPMENTS SERVICES LEE'S SUMMENT'S MISSOURI 03/20/2024 1:00:58

I	Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
	P230397-01	C03	Hip Girder	1	2	Job Reference (optional)	25

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16) Fill all nail holes where hanger is in contact with lumber.

17) N/A

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-5=-70, 5-6=-70, 6-10=-70, 1-10=-20 Concentrated Loads (lb)

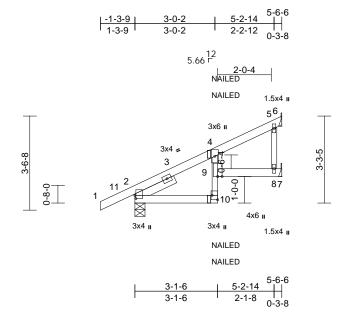
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Vert: 18=-726 (F), 11=-726 (F), 15=-726 (F), 25=-726 (F), 26=-726 (F), 27=-726 (F), 28=-726 (F), 29=-726 (F), 31=-726 (F), 33=-726 (F), 34=-726 (F), 35=-726 (F), 36=-726 (F), 37=-726 (F), 38=-728 (F)

Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	CJ01	Diagonal Hip Girder	1	1	Job Reference (optional)	160735726

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:39 ID:idVeFtx6L7iry3uPkRzBSYyx7_z-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:43.4

Plate Offsets (X, Y):	[2:0-1-8,0-0-7],	[10:Edge,0-2-8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.09	9	>717	240	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.13	10	>500	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 25 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD

BOT CHORD 2x4 SP No.2 *Except* 10-4:2x3 SPF No.2

WEBS 2x3 SPF No.2 SLIDER Left 2x4 SP No.2 -- 1-7-9

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-6-6 oc purlins.

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

REACTIONS (size) 2=0-4-9, 6= Mechanical, 7=

Mechanical

Max Horiz 2=138 (LC 16) Max Uplift 2=-57 (LC 16), 6=-7 (LC 16), 7=-79

(LC 16)

Max Grav 2=477 (LC 23), 6=80 (LC 23),

7=263 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-4=-391/44, 4-5=-78/80,

5-6=-13/33

BOT CHORD 2-10=-138/219, 9-10=-5/68, 4-9=0/77,

8-9=0/0, 7-8=0/0

WFBS 5-8=-158/132

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 3) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 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 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 6, 57 lb uplift at joint 2 and 79 lb uplift at joint 7.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-6=-70, 2-10=-20, 7-9=-20



September 13,2023

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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	Roof - CB Lot 149	
P230397-01	D01	Scissor Supported Gable	2	1	Job Reference (optional)	160735727

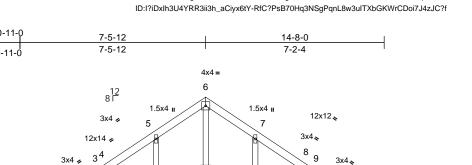
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11

14-8-0

7-2-4

1.5x4 II



12 1.5x4 II

13 5x5 =

15

1.5x4 II

14 12

7-5-12 7-2-4

Scale = 1:46.4

Plate Offsets (X, Y): [2:0-2-0,0-0-2], [2:3-11-1,0-1-8], [3:2-9-1,Edge], [9:2-7-1,Edge], [10:0-2-0,0-0-2]

3x4 II

0-3-8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	0.00	2-15	>999	240	MT20	197/144
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	2-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 72 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 4-5-14, Right 2x4 SP

No.2 -- 4-4-7

BRACING TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins

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

REACTIONS 2=14-8-0. 10=14-8-0. 11=14-8-0. (size) 12=14-8-0, 13=14-8-0, 14=14-8-0,

15=14-8-0

Max Horiz 2=154 (LC 13)

2=-62 (LC 17), 10=-16 (LC 17),

11=-133 (LC 17), 12=-70 (LC 17), 14=-76 (LC 16), 15=-131 (LC 16)

2=223 (LC 23), 10=128 (LC 24), Max Grav 11=357 (LC 24), 12=269 (LC 24),

13=223 (LC 33), 14=271 (LC 23), 15=357 (LC 23)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/24, 2-3=-148/126, 3-5=-123/102, 5-6=-90/136, 6-7=-90/132, 7-9=-116/69,

9-10=-88/76

BOT CHORD 2-15=-61/115, 14-15=-66/114, 13-14=-64/115,

12-13=-64/115, 11-12=-66/115,

10-11=-56/110

WEBS 6-13=-141/1, 5-14=-239/97, 3-15=-287/162,

7-12=-236/95, 9-11=-289/162

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 7-5-12, Exterior(2R) 7-5-12 to 12-5-12, Interior (1) 12-5-12 to 14-6-14 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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 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 crushing capacity of 565 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 10, 62 lb uplift at joint 2, 76 lb uplift at joint 14, 131 lb uplift at joint 15, 70 lb uplift at joint 12 and 133 lb uplift at

12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10.

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13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

3x6 II



September 13,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	D02	Scissor	15	1	Job Reference (optional)	160735728

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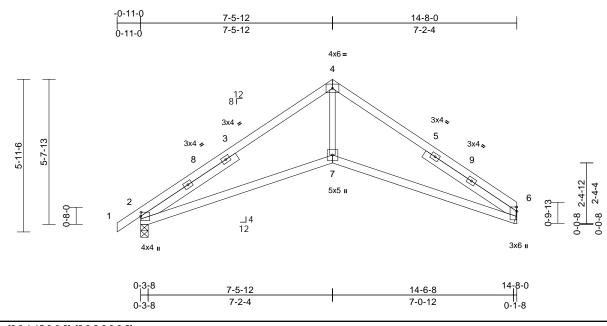


Plate Offsets (X, Y): [2:0-1-15,0-0-2], [6:0-2-0,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.10	2-7	>999	240	MT20	197/144
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.21	2-7	>816	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.04	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 67 lb	FT = 20%

LUMBER

2x4 SP 2400F 2.0E *Except* 4-6:2x4 SP TOP CHORD

1650F 1.5E 2x4 SP No.2

BOT CHORD WEBS 2x3 SPF No.2

SLIDER Left 2x4 SP No.2 -- 4-5-14, Right 2x4 SP

No.2 -- 4-4-7

BRACING TOP CHORD

Structural wood sheathing directly applied or

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

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

Max Horiz 2=154 (LC 13)

Max Uplift 2=-117 (LC 16), 6=-88 (LC 17)

Max Grav 2=821 (LC 23), 6=746 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/24, 2-4=-1296/165, 4-6=-1302/181

BOT CHORD 2-7=-65/982, 6-7=-63/983 **WEBS**

4-7=0/767

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00: Cat. II: Exp C: Enclosed: MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 7-5-12, Exterior(2R) 7-5-12 to 12-5-12, Interior (1) 12-5-12 to 14-6-14 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

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate $DOL=1.15); \ Is=1.0; \ Rough \ Cat \ C; \ Fully \ Exp.; \ Ce=0.9;$ Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 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 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- 10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 6 and 117 lb uplift at joint 2.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2023

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

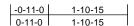
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

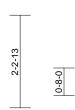


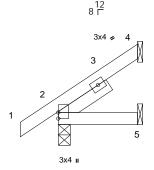
Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	J01	Jack-Open	2	1	Job Reference (optional)	160735729

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:41 ID:WzHepUPuyl1D29ymbUfe72yx7?g-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1









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1-10-15

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	0.00	2-5	>999	240	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	2-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 10 lb	FT = 20%

LUMBER

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

Left 2x4 SP No.2 -- 1-4-12 SLIDER

BRACING

Structural wood sheathing directly applied or TOP CHORD

1-10-15 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 4= Mechanical, 5= Mechanical

Max Horiz 2=80 (LC 16)

Max Uplift 2=-18 (LC 16), 4=-54 (LC 16)

Max Grav 2=239 (LC 23), 4=77 (LC 23), 5=38

(LC 7)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/31, 2-4=-87/40

BOT CHORD 2-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone 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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.

- 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 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 2 and 54 lb uplift at joint 4.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2023

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

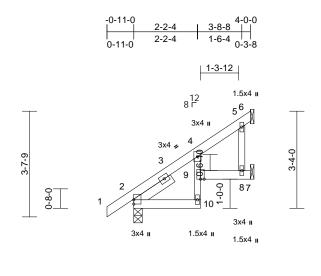
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	J02	Jack-Open	4	1	Job Reference (optional)	160735730

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:41 ID:P?2aDgf3?lhF3N3oKOXZTUyx7?L-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.03	9	>999	240	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.04	10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 20 lb	FT = 20%

2-3-8 2-3-8

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 10-4:2x3 SPF No.2

WEBS 2x3 SPF No.2

SLIDER Left 2x4 SP No.2 -- 1-6-4

BRACING TOP CHORD

CHORD Structural wood sheathing directly applied or

4-0-0 oc purlins.

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

bracing.

REACTIONS (size)

(size) 2=0-3-8, 6= Mechanical, 7= Mechanical

Max Horiz 2=140 (LC 16)

Max Uplift 2=-16 (LC 16), 6=-27 (LC 16), 7=-58 (LC 16)

Max Grav 2=389 (LC 23), 6=84 (LC 23),

7=172 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-4=-274/0, 4-5=-74/75, 5-6=-28/45

BOT CHORD 2-10=-76/111, 9-10=-6/49, 4-9=-1/54,

8-9=0/0, 7-8=0/0

WEBS 5-8=-95/68

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- 8) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 6, 16 lb uplift at joint 2 and 58 lb uplift at joint 7.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2023

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

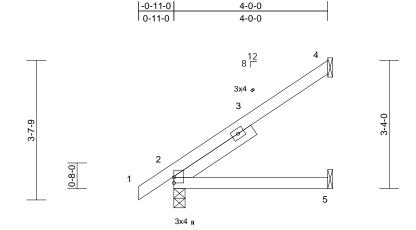
Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	J03	Jack-Open	6	1	Job Reference (optional)	160735731

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:41 ID:?ius9Sqri3SFIX7U8Knr2Ryx7?7-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)	25.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.01	2-5	>999	240	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.03	2-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0	ļ									Weight: 19 lb	FT = 20%

4-0-0

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 2-5-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-0-0 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 4= Mechanical, 5=

Mechanical Max Horiz 2=140 (LC 16)

Max Uplift 2=-16 (LC 16), 4=-108 (LC 16)

Max Grav 2=389 (LC 23), 4=217 (LC 23),

5=79 (LC 7)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-4=-157/94

BOT CHORD 2-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone 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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 4 and 16 lb uplift at joint 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2023

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

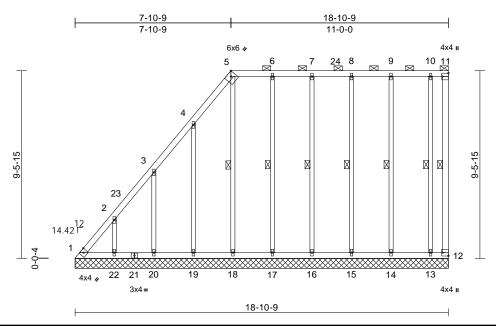
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Γ,	Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
ŀ	P230397-01	LG01	Lay-In Gable	1	1	Job Reference (optional)	160735732

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:41 ID:_uJbS0CrjO0V7hkhf7NuTgyx7?w-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)	25.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.33	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.34	Horiz(TL)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 126 lb	FT = 20%

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

2x4 SP No.2 **WEBS** 2x4 SPF No.3 **OTHERS** 2x3 SPF No.2

LUMBER

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.): 5-11. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

WEBS 1 Row at midpt 11-12, 5-18, 6-17, 7-16,

8-15, 9-14, 10-13

REACTIONS (size)

1=18-10-9, 12=18-10-9, 13=18-10-9, 14=18-10-9, 15=18-10-9, 16=18-10-9, 17=18-10-9, 18=18-10-9 19=18-10-9, 20=18-10-9,

22=18-10-9

Max Horiz 1=391 (LC 13)

1=-193 (LC 14), 12=-73 (LC 15), Max Uplift

13=-99 (LC 12), 14=-65 (LC 13), 15=-46 (LC 12), 16=-40 (LC 12), 17=-51 (LC 13), 18=-140 (LC 13),

19=-169 (LC 16), 20=-166 (LC 16),

22=-168 (LC 16)

1=344 (LC 13), 12=46 (LC 12), Max Grav 13=247 (LC 46), 14=352 (LC 36),

15=330 (LC 36), 16=329 (LC 36), 17=361 (LC 36), 18=219 (LC 40), 19=347 (LC 41), 20=330 (LC 37),

22=340 (LC 41)

FORCES (lb) - Maximum Compression/Maximum

Tension

BOT CHORD

TOP CHORD 1-2=-681/668, 2-3=-545/542, 3-4=-404/415, 4-5=-272/274, 5-6=-176/191, 6-7=-176/192, 7-8=-176/192, 8-9=-176/192, 9-10=-176/192,

10-11=-176/192, 11-12=-193/203 1-22=-177/194, 20-22=-177/195.

19-20=-178/195, 18-19=-178/195, 17-18=-178/194, 16-17=-178/194, 15-16=-178/194. 14-15=-178/194.

13-14=-178/194, 12-13=-178/194 WERS 2-22=-289/184, 3-20=-292/192,

4-19=-306/192, 5-18=-292/228, 6-17=-321/75. 7-16=-289/65. 8-15=-291/67.

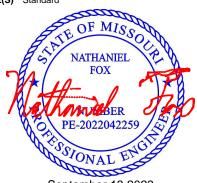
9-14=-311/79, 10-13=-204/142

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-12 to 5-3-12, Interior (1) 5-3-12 to 7-10-13, Exterior(2R) 7-10-13 to 14-11-10, Interior (1) 14-11-10 to 18-9-0 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 study 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.

- 9) 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 crushing capacity of 565 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 1, 73 lb uplift at joint 12, 168 lb uplift at joint 22, 166 lb uplift at joint 20, 169 lb uplift at joint 19, 140 lb uplift at joint 18, 51 lb uplift at joint 17, 40 lb uplift at joint 16, 46 Ib uplift at joint 15, 65 lb uplift at joint 14 and 99 lb uplift at joint 13.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



September 13,2023

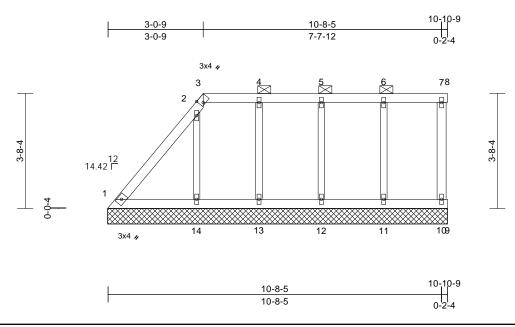
M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	LG02	Lay-In Gable	1	1	Job Reference (optional)	160735733

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:42 ID:S4tzfMDUUh9LlrJtDqu70uyx7?v-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:36.9

Plate Offsets (X, Y): [3:0-1-5,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0			1							Weight: 48 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD **BOT CHORD** 2x4 SP No.2 **WEBS** 2x4 SPF No.3 **OTHERS** 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (10-0-0 max.): 3-8. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (size)

9=10-10-12, 10=10-10-12 11=10-10-12, 12=10-10-12, 13=10-10-12. 14=10-10-12

1=10-10-12, 8=10-10-12,

Max Horiz 1=148 (LC 16)

8=-14 (LC 36), 9=-49 (LC 7), 10=-5 (LC 13), 11=-44 (LC 12), 12=-40

(LC 13), 13=-54 (LC 12), 14=-160

(LC 16)

Max Grav 1=181 (LC 37), 8=3 (LC 13), 9=-14 (LC 16), 10=198 (LC 36), 11=347

(LC 36), 12=331 (LC 36), 13=338 (LC 36), 14=355 (LC 37)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-176/155, 2-3=-96/30, 3-4=0/0, 4-5=0/0,

5-6=0/0, 6-7=0/0, 7-8=0/0

1-14=0/1, 13-14=0/0, 12-13=0/0, 11-12=0/0,

10-11=0/0, 9-10=0/0 **WEBS** 7-10=-152/33, 6-11=-309/67, 5-12=-289/64,

4-13=-303/74, 2-14=-280/176

NOTES

BOT CHORD

1) Unbalanced roof live loads have been considered for

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-12 to 3-0-13, Exterior(2R) 3-0-13 to 10-1-10, Interior (1) 10-1-10 to 10-10-12 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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 8, 49 lb uplift at joint 9, 5 lb uplift at joint 10, 44 lb uplift at joint 11, 40 lb uplift at joint 12, 54 lb uplift at joint 13 and 160 lb uplift at joint 14.

- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) 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



September 13,2023

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

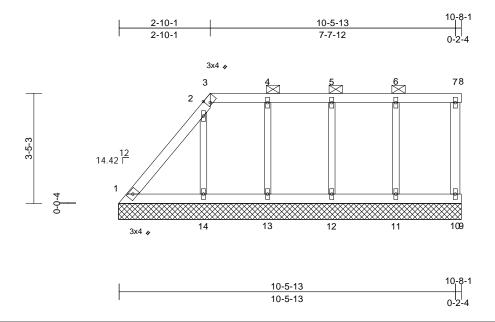
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	LG03	Lay-In Gable	1	1	Job Reference (optional)	160735734

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:42 ID:S4tzfMDUUh9LlrJtDqu70uyx7?v-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.9

Plate Offsets ((X,	Y):	[3:0-1-5,	Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 46 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD **BOT CHORD** 2x4 SP No.2 **WEBS** 2x4 SPF No.3 **OTHERS** 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (10-0-0 max.): 3-8. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

REACTIONS (size)

1=10-8-4. 8=10-8-4. 9=10-8-4. 10=10-8-4, 11=10-8-4, 12=10-8-4,

13=10-8-4, 14=10-8-4

Max Horiz 1=137 (LC 16)

Max Uplift 8=-19 (LC 36), 9=-49 (LC 7), 10=-7

(LC 13), 11=-44 (LC 12), 12=-40 (LC 13), 13=-51 (LC 12), 14=-145

(LC 16)

1=167 (LC 37), 8=4 (LC 13), 9=-14 Max Grav

(LC 16), 10=203 (LC 36), 11=347 (LC 36), 12=330 (LC 36), 13=341 (LC 36), 14=327 (LC 37)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-163/142, 2-3=-95/28, 3-4=0/0, 4-5=0/0,

5-6=0/0, 6-7=0/0, 7-8=0/0 1-14=0/1, 13-14=0/0, 12-13=0/0, 11-12=0/0,

BOT CHORD 10-11=0/0, 9-10=0/0

7-10=-157/34, 6-11=-308/67, 5-12=-288/64, 4-13=-305/72, 2-14=-257/163

WEBS NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-12 to 2-10-5, Exterior(2R) 2-10-5 to 9-11-2, Interior (1) 9-11-2 to 10-8-4 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
- 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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 8, 49 lb uplift at joint 9, 7 lb uplift at joint 10, 44 lb uplift at joint 11, 40 lb uplift at joint 12, 51 lb uplift at joint 13 and 145 lb uplift at joint 14.

- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) 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



September 13,2023

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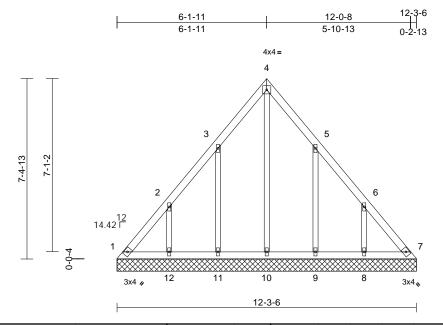
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	LG04	Lay-In Gable	1	1	Job Reference (optional)	160735735

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:42 ID:S4tzfMDUUh9LIrJtDqu70uyx7?v-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 61 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=12-3-6, 7=12-3-6, 8=12-3-6, 9=12-3-6, 10=12-3-6, 11=12-3-6,

12=12-3-6

Max Horiz 1=207 (LC 13)

Max Uplift 1=-80 (LC 14), 7=-54 (LC 15),

8=-178 (LC 17), 9=-166 (LC 17), 11=-167 (LC 16), 12=-178 (LC 16)

Max Grav 1=194 (LC 16), 7=177 (LC 17),

8=254 (LC 23), 9=328 (LC 23),

10=149 (LC 28), 11=328 (LC 22),

12=254 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-271/173, 2-3=-154/106, 3-4=-167/130, 4-5=-167/124, 5-6=-149/71, 6-7=-249/173

BOT CHORD 1-12=-135/197, 11-12=-136/197,

10-11=-136/197, 9-10=-136/197

8-9=-136/197, 7-8=-135/196

4-10=-120/81, 3-11=-290/193

2-12=-229/195, 5-9=-290/192, 6-8=-229/195

NOTES

WFBS

 Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-12 to 5-3-12, Interior (1) 5-3-12 to 6-1-14, Exterior(2R) 6-1-14 to 11-1-14, Interior (1) 11-1-14 to 12-0-1 zone; cantilever left and right exposed; cnd 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 1, 54 lb uplift at joint 7, 167 lb uplift at joint 11, 178 lb uplift at joint 12, 166 lb uplift at joint 9 and 178 lb uplift at joint 8.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2023

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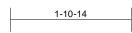
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



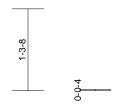
	Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
ı	P230397-01	V01	Valley	1	1	Job Reference (optional)	160735736

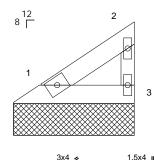
Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:43 ID:S4tzfMDUUh9LIrJtDqu70uyx7?v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

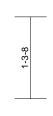
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1.5x4 ı







Page: 1

1-10-14

Scale = 1:18.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 6 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-11-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=1-10-14, 3=1-10-14

Max Horiz 1=38 (LC 13) Max Uplift 1=-7 (LC 16), 3=-20 (LC 16)

Max Grav 1=77 (LC 22), 3=77 (LC 22) (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=-56/42, 2-3=-64/67

BOT CHORD 1-3=-19/20

BOT CHORD 1-3=-19/20

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1 and 20 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2023

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

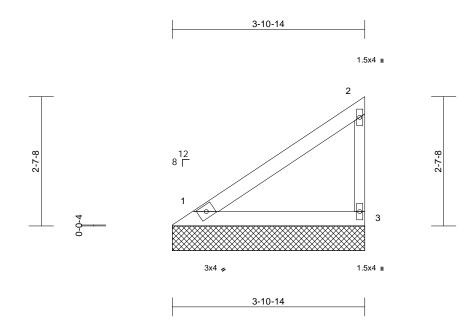
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	V02	Valley	1	1	Job Reference (optional)	160735737

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Page: 1



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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0	•									Weight: 14 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals.

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

EACTIONS (size)

REACTIONS (size) 1=3-10-14, 3=3-10-14

Max Horiz 1=95 (LC 13)

Max Uplift 1=-16 (LC 16), 3=-50 (LC 16) Max Grav 1=216 (LC 22), 3=216 (LC 22)

(lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=-133/99, 2-3=-182/156

BOT CHORD 1-3=-46/50

BOT CHORD 1-3=-46/50

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone 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.
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 6) 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 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1 and 50 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2023

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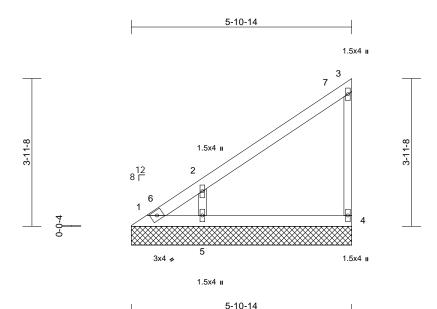
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	V03	Valley	1	1	Job Reference (optional)	160735738

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Page: 1



Scale = 1:30.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 22 lb	FT = 20%

LUMBER

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

bracing

REACTIONS (size) 1=5-10-14, 4=5-10-14, 5=5-10-14 Max Horiz 1=152 (LC 13)

Max Uplift 1=-67 (LC 14), 4=-40 (LC 13), 5=-157 (LC 16)

Max Grav 1=88 (LC 16), 4=216 (LC 22), 5=551 (LC 22)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-330/215, 2-3=-153/118, 3-4=-185/153

BOT CHORD 1-5=-73/80, 4-5=-73/80

WEBS 2-5=-470/303

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior (1) 5-5-12 to 5-10-0 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this 4) design.
- Gable requires continuous bottom chord bearing.
- 6) 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 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 1, 40 lb uplift at joint 4 and 157 lb uplift at joint 5.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2023

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

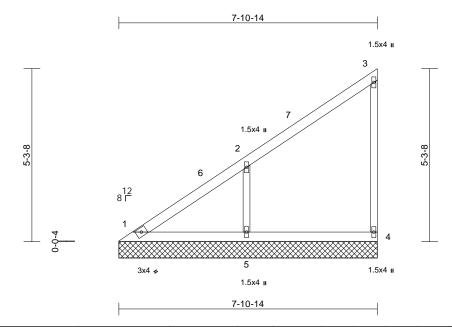
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	V04	Valley	1	1	Job Reference (optional)	160735739

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:43 ID:wGRLsiE6F?HCN?u3nYPMZ5yx7?u-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 31 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD 2x4 SP No.2 BOT CHORD 2x3 SPF No 2 WFBS OTHERS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing

BOT CHORD REACTIONS (size)

1=7-10-14, 4=7-10-14, 5=7-10-14

Max Horiz 1=209 (LC 13)

Max Uplift 1=-13 (LC 12), 4=-47 (LC 13),

5=-179 (LC 16)

Max Grav 1=147 (LC 26), 4=213 (LC 22),

5=581 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-361/242, 2-3=-167/138, 3-4=-183/149

BOT CHORD 1-5=-101/109, 4-5=-101/109 WEBS

2-5=-489/312

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior (1) 5-5-12 to 7-10-0 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 6) 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 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1, 47 lb uplift at joint 4 and 179 lb uplift at joint 5.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2023

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

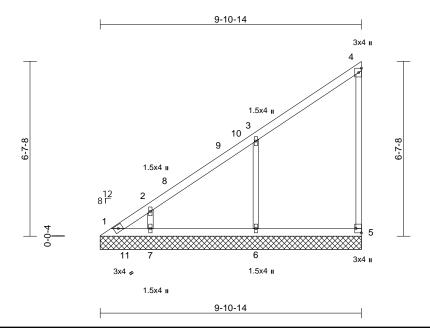
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	V05	Valley	1	1	Job Reference (optional)	160735740

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:44 ID:wGRLsiE6F?HCN?u3nYPMZ5yx7?u-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:43.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 40 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

REACTIONS (size) 1=9-10-14, 5=9-10-14, 6=9-10-14,

7=9-10-14 Max Horiz 1=265 (LC 13)

Max Uplift 1=-80 (LC 14), 5=-56 (LC 13),

6=-176 (LC 16), 7=-124 (LC 16)

Max Grav 1=139 (LC 13), 5=228 (LC 5),

6=579 (LC 5), 7=339 (LC 25) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-468/296, 2-3=-366/252, 3-4=-173/146,

4-5=-186/137

1-7=-125/137, 6-7=-125/137, 5-6=-125/137 BOT CHORD

WEBS 3-6=-482/301, 2-7=-237/203

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior (1) 5-5-12 to 9-10-0 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 study 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.

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 1, 56 lb uplift at joint 5, 176 lb uplift at joint 6 and 124 lb uplift at joint 7.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	V06	Valley	1	1	Job Reference (optional)	160735741

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:44 ID:OT?j42Ek0JP3_9SGKFwb5Jyx7?t-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

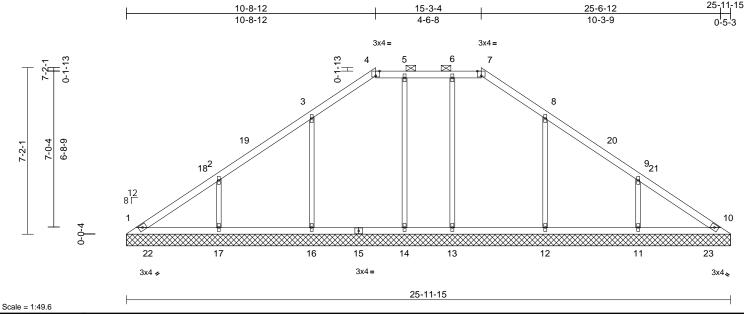


Plate Offsets (X, Y): [4:0-2-0,Edge], [7:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horiz(TL)	0.01	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 104 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-7.

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

REACTIONS (size)

1=25-11-15, 10=25-11-15, 11=25-11-15. 12=25-11-15. 13=25-11-15, 14=25-11-15, 16=25-11-15. 17=25-11-15

Max Horiz 1=-189 (LC 12)

Max Uplift 1=-9 (LC 12), 11=-171 (LC 17), 12=-126 (LC 17), 13=-43 (LC 12),

14=-56 (LC 13), 16=-130 (LC 16),

17=-170 (LC 16)

Max Grav 1=305 (LC 40), 10=305 (LC 40), 11=638 (LC 50), 12=611 (LC 50),

13=351 (LC 6), 14=351 (LC 5), 16=616 (LC 48), 17=637 (LC 48)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-317/121, 2-3=-339/85, 3-4=-316/117,

4-5=-164/112, 5-6=-162/113, 6-7=-164/113, 7-8=-316/107, 8-9=-339/51, 9-10=-300/89

BOT CHORD 1-17=-69/223, 16-17=-69/223,

14-16=-69/223, 13-14=-69/223

12-13=-69/223, 11-12=-69/223,

10-11=-69/223

WEBS 2-17=-526/212, 3-16=-471/181,

5-14=-278/91, 9-11=-526/213,

8-12=-471/177, 6-13=-278/77

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior (1) 5-5-12 to 10-9-2, Exterior(2E) 10-9-2 to 15-3-10. Exterior(2R) 15-3-10 to 22-4-7. Interior (1) 22-4-7 to 25-6-15 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this 5) design.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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 crushing capacity of 565 psi.

- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 1, 170 lb uplift at joint 17, 130 lb uplift at joint 16, 56 lb uplift at joint 14, 171 lb uplift at joint 11, 126 lb uplift at joint 12 and 43 lb uplift at joint 13.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) 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



September 13,2023

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

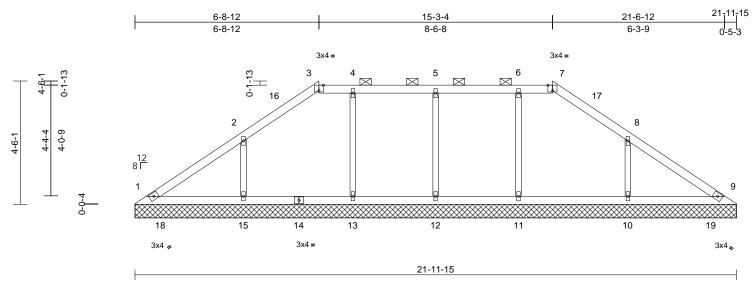
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	V07	Valley	1	1	Job Reference (optional)	60735742

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:44 ID:OT?j42Ek0JP3_9SGKFwb5Jyx7?t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.1

Plate Offsets (X, \	′):	[3:0-2-0,Edge],	[7:0-2-0,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.01	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 81 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-7.

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

bracing.

REACTIONS (size)

1=21-11-15, 9=21-11-15, 10=21-11-15, 11=21-11-15, 12=21-11-15, 13=21-11-15, 15=21-11-15

Max Horiz 1=115 (LC 15)

Max Uplift 1=-5 (LC 17), 10=-145 (LC 17),

11=-43 (LC 12), 12=-76 (LC 12), 13=-54 (LC 13), 15=-147 (LC 16)

Max Grav 1=306 (LC 40), 9=306 (LC 40),

10=612 (LC 50), 11=404 (LC 45), 12=465 (LC 45), 13=404 (LC 45),

15=614 (LC 48)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-290

1-2=-290/63, 2-3=-308/80, 3-4=-157/80, 4-5=-155/79, 5-6=-155/79, 6-7=-157/80,

7-8=-308/72, 8-9=-290/43 1-15=-32/171, 13-15=-32/171

BOT CHORD 1-15=-32/171, 13-15=-32/171, 12-13=-32/171, 11-12=-32/171,

10-11=-32/171, 9-10=-32/171 2-15=-485/191, 4-13=-327/97,

8-10=-485/188, 6-11=-327/87, 5-12=-403/108

WEBS NOTES

 Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior (1) 5-5-12 to 6-9-2, Exterior(2R) 6-9-2 to 14-0-11, Interior (1) 14-0-11 to 15-3-10, Exterior(2E) 15-3-10 to 21-6-15 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.
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 6) Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 9) 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.
- 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 crushing capacity of 565 psi.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 1, 147 lb uplift at joint 15, 54 lb uplift at joint 13, 145 lb uplift at joint 10, 43 lb uplift at joint 11 and 76 lb uplift at joint 12.

- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) 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



September 13,2023

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

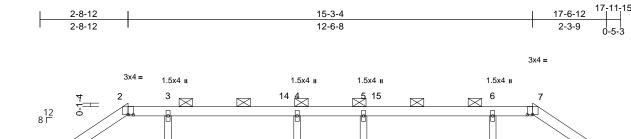
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

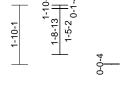


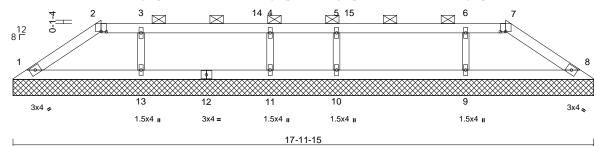
Job	Truss	Truss Type	Qty	Ply	Roof - CB Lot 149	
P230397-01	V08	Valley	1	1	Job Reference (optional)	160735743

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Tue Sep 12 18:26:45 ID:tfZ5HNFMmcXwcJ1SuzRqeWyx7?s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:35.7

Plate Offsets (X, Y): [2:0-2-0,0-0-2], [7:0-2-0,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 57 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

REACTIONS (size)

1=17-11-15, 8=17-11-15, 9=17-11-15, 10=17-11-15, 11=17-11-15, 13=17-11-15

Max Horiz 1=41 (LC 15)

Max Uplift 1=-36 (LC 16), 8=-37 (LC 17),

9=-82 (LC 12), 10=-70 (LC 13), 11=-70 (LC 12), 13=-86 (LC 13)

Max Grav 1=284 (LC 40), 8=284 (LC 40), 9=547 (LC 39), 10=433 (LC 39),

11=433 (LC 39), 13=547 (LC 39) (lb) - Maximum Compression/Maximum

FORCES (lb) - Ma Tension

TOP CHORD 1-2=-293/51, 2-3=-179/58, 3-4=-178/57,

4-5=-178/57, 5-6=-178/57, 6-7=-179/58,

7-8=-293/47

BOT CHORD 1-13=-16/178, 11-13=-16/178,

10-11=-16/178, 9-10=-16/178, 8-9=-16/178

WEBS 3-13=-459/134, 4-11=-376/103, 6-9=-459/131, 5-10=-376/103

NOTES

 Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-12 to 2-9-2, Exterior(2R) 2-9-2 to 10-0-11, Interior (1) 10-0-11 to 15-3-10, Exterior(2E) 15-3-10 to 17-6-15 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 9) 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.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1, 37 lb uplift at joint 8, 86 lb uplift at joint 13, 70 lb uplift at joint 11, 82 lb uplift at joint 9 and 70 lb uplift at joint

- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) 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



September 13,2023

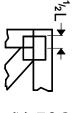
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

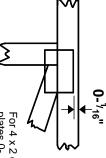


Symbols

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- v_{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



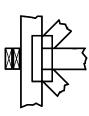
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



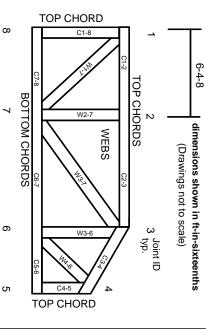
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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

1:01:00

Failure to Follow Could Cause Property Damage or Personal Injury

DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

03/20/2024

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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

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