

RE: B240046 Lot 119 H4 MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

Site Information:

Customer: Summit Homes Project Name: B240046 Lot/Block: 119 Model: W Model: Winfield - Farmhouse Address: 3241 SW Arbortree Dr Subdivision: Hawthorn Ridge

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 8.4

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

This package includes 40 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	158592455	A1	5/26/2023	21	158592475	H1	5/26/2023
2	158592456	A2	5/26/2023	22	158592476	H2	5/26/2023
3	158592457	B1	5/26/2023	23	158592477	H3	5/26/2023
4	158592458	C1	5/26/2023	24	158592478	H4	5/26/2023
5	158592459	C2	5/26/2023	25	158592479	H5	5/26/2023
6	158592460	C3	5/26/2023	26	158592480	J1	5/26/2023
7	158592461	C4	5/26/2023	27	158592481	J2	5/26/2023
8	158592462	C5	5/26/2023	28	158592482	J3	5/26/2023
9	158592463	D1	5/26/2023	29	158592483	R1	5/26/2023
10	158592464	D2	5/26/2023	30	158592484	V1	5/26/2023
11	158592465	E1	5/26/2023	31	158592485	V2	5/26/2023
12	158592466	E2	5/26/2023	32	158592486	V3	5/26/2023
13	158592467	E3	5/26/2023	33	158592487	V4	5/26/2023
14	158592468	E4	5/26/2023	34	158592488	V5	5/26/2023
15	158592469	G1	5/26/2023	35	158592489	V6	5/26/2023
16	158592470	G2	5/26/2023	36	158592490	V7	5/26/2023
17	158592471	G3	5/26/2023	37	158592491	V8	5/26/2023
18	158592472	G4	5/26/2023	38	158592492	V9	5/26/2023
19	158592473	G5	5/26/2023	39	158592493	V10	5/26/2023
20	158592474	G6	5/26/2023	40	158592494	V11	5/26/2023

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

MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2025.

Missouri COA: 001193

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.



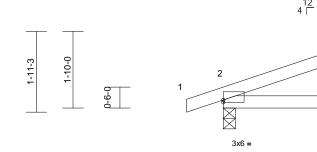
May 26, 2023

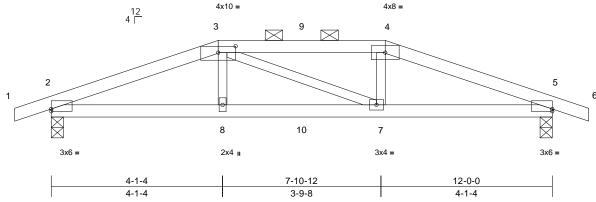
Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	A1	Hip Girder	1	1	I5 Job Reference (optional)	8592455

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-0-10-8	4-0-0	8-0-0	12-0-0	12-10-8
0-10-8	4-0-0	4-0-0	4-0-0	0-10-8





Scale = 1:27.6

Plate Offsets (X, Y): [2:Edge,0-0-10], [3:0-5-0,0-1-13], [5:Edge,0-0-10]

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	0.47	Vert(LL)	-0.06	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.10	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	7-8	>999	240	Weight: 35 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-6 oc purlins, except

2-0-0 oc purlins (4-0-10 max.): 3-4. Rigid ceiling directly applied or 9-8-11 oc

BOT CHORD bracing.

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

Max Horiz 2=29 (LC 27)

Max Uplift 2=-232 (LC 4), 5=-232 (LC 5)

Max Grav 2=897 (LC 1), 5=897 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-1822/421, 3-4=-1668/413,

4-5=-1823/421, 5-6=0/6 **BOT CHORD**

2-8=-369/1647, 7-8=-369/1667,

5-7=-350/1648

WFBS 3-8=0/314, 3-7=-75/77, 4-7=-6/323

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 2 and 232 lb uplift at joint 5.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down and 64 lb up at 4-0-0, and 83 lb down and 63 lb up at 6-0-0, and 83 lb down and 64 lb up at 8-0-0 on top chord, and 210 lb down and 50 lb up at 4-0-0, and 36 lb down at 6-0-0, and 210 lb down and 50 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft) Vert: 1-3=-70, 3-4=-70, 4-6=-70, 2-5=-20

Concentrated Loads (lb)

Vert: 3=-53 (F), 4=-53 (F), 8=-210 (F), 7=-210 (F),

9=-53 (F), 10=-18 (F)



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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

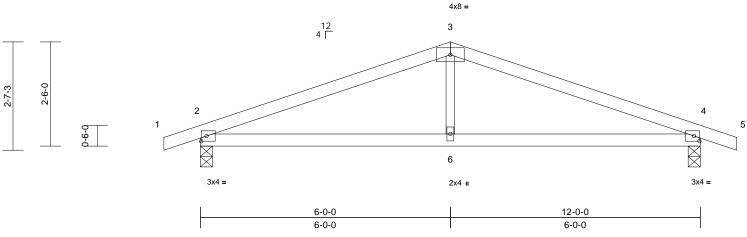


Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	A2	Common	4	1	Job Reference (optional)	158592456

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-0-10-8	6-0-0	12-0-0	12-10-8
0-10-8	6-0-0	6-0-0	0-10-8



Scale = 1:27.7

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

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	0.50	Vert(LL)	-0.03	4-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.08	4-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	2-6	>999	240	Weight: 32 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-8 oc purlins.

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

bracing.

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

Max Horiz 2=-40 (LC 13)

Max Uplift 2=-121 (LC 4), 4=-121 (LC 5) Max Grav 2=598 (LC 1), 4=598 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/6, 2-3=-914/107, 3-4=-914/107, 4-5=0/6

TOP CHORD

BOT CHORD 2-6=-57/791, 4-6=-57/791

WEBS 3-6=0/281

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 2 and 121 lb uplift at joint 4.

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



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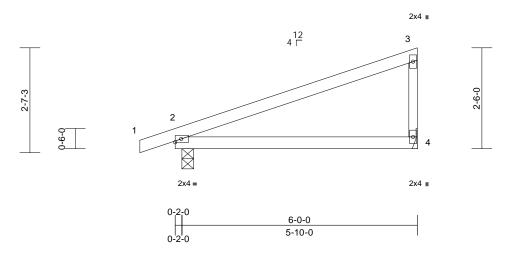


Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	B1	Monopitch	9	1	Job Reference (optional)	158592457

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-0-10-8 6-0-0





Scale = 1:28.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.07	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.13	2-4	>526	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 10%

LUMBER

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

BRACING

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

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

bracing.

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

Max Horiz 2=98 (LC 7)

Max Uplift 2=-88 (LC 4), 4=-55 (LC 8) Max Grav 2=337 (LC 1), 4=252 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-87/55, 3-4=-195/89

BOT CHORD 2-4=-31/23

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 4 and 88 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.

LOAD CASE(S) Standard



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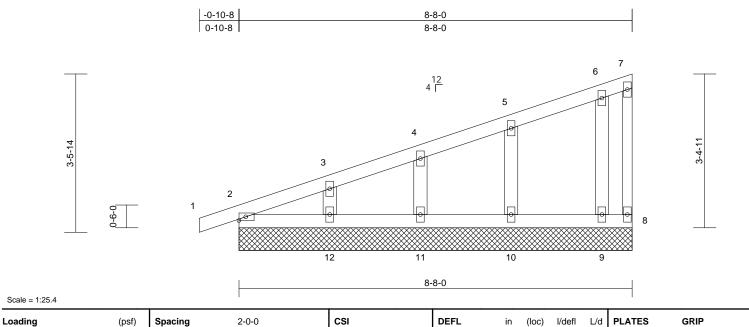
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	C1	Monopitch Supported Gable	1	1	Job Reference (optional)	158592458

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BCDL	
LUMBER	

TCLL (roof)

TCDI

BCLL

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

BRACING TOP CHORD

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

25.0

10.0

10.0

0.0*

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Code

1.15

1 15

YES

IRC2018/TPI2014

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

bracing.

REACTIONS (size)

2=8-8-0, 8=8-8-0, 9=8-8-0, 10=8-8-0. 11=8-8-0. 12=8-8-0

Max Horiz 2=138 (LC 5)

Max Uplift 2=-27 (LC 4), 8=-17 (LC 7), 9=-30

(LC 4), 10=-46 (LC 8), 11=-43 (LC 4), 12=-51 (LC 8)

Max Grav 2=149 (LC 1), 8=10 (LC 4), 9=141 (LC 1), 10=189 (LC 1), 11=177 (LC

1), 12=183 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=0/6, 2-3=-113/27, 3-4=-85/22, 4-5=-72/23, 5-6=-61/20, 6-7=-49/35,

7-8=-12/13

2-12=-43/33, 11-12=-43/33, 10-11=-43/33,

9-10=-43/33. 8-9=-43/33

WEBS 3-12=-138/78, 4-11=-139/66, 5-10=-147/71,

6-9=-108/50

NOTES

BOT CHORD

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For 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) All plates are 2x4 MT20 unless otherwise indicated.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.

TC

BC

WB

Matrix-P

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

0.11

0.03

0.02

Vert(LL)

Vert(CT)

Horz(CT)

n/a

n/a

0.00

n/a 999

n/a 999

n/a n/a

8

MT20

Weight: 31 lb

197/144

FT = 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 8, 27 lb uplift at joint 2, 51 lb uplift at joint 12, 43 lb uplift at joint 11, 46 lb uplift at joint 10 and 30 lb uplift at joint
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 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



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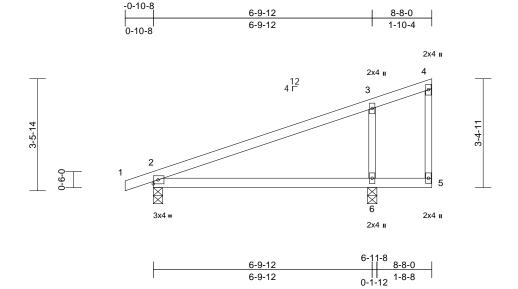
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Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	C2	Monopitch	1	1	Job Reference (optional)	158592459

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Page: 1



Scale = 1:35.8

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	0.57	Vert(LL)	-0.06	2-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.15	2-6	>523	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	2-6	>999	240	Weight: 26 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=138 (LC 5)

Max Uplift 2=-85 (LC 4), 6=-102 (LC 8) Max Grav 2=356 (LC 1), 6=473 (LC 1)

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

TOP CHORD 1-2=0/6, 2-3=-148/57, 3-4=-88/47, 4-5=-26/31

BOT CHORD 2-6=-30/27, 5-6=-30/27

WEBS 3-6=-389/189

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 2 and 102 lb uplift at joint 6.
- 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



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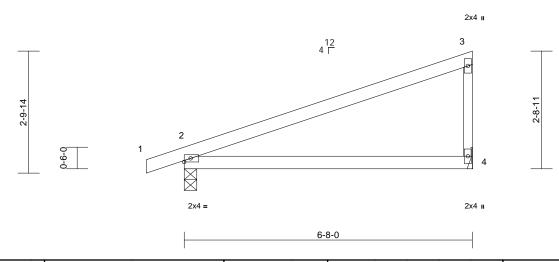


Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	C3	Monopitch	8	1	Job Reference (optional)	158592460

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Scale = 1:26.6

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.10	2-4	>757	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.20	2-4	>379	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=108 (LC 5)

Max Uplift 2=-92 (LC 4), 4=-61 (LC 8) Max Grav 2=366 (LC 1), 4=283 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-95/61, 3-4=-219/100 BOT CHORD 2-4=-34/26

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 4 and 92 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.

LOAD CASE(S) Standard



May 26,2023



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

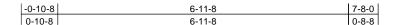
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

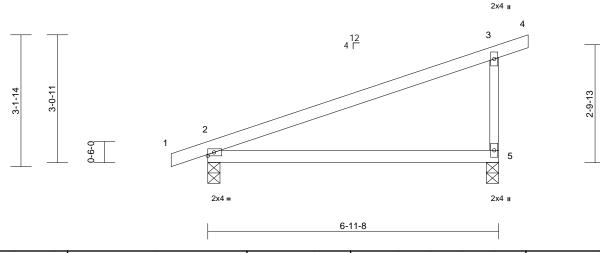


Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	C4	Monopitch	1	1	Job Reference (optional)	158592461

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Fri May 26 08:47:49 ID: IpnO10ZFdF1T0VaStrr?zJzsVXo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

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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	0.84	Vert(LL)	-0.12	2-5	>663	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.24	2-5	>331	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=124 (LC 5)

Max Uplift 2=-89 (LC 4), 5=-88 (LC 8) Max Grav 2=375 (LC 1), 5=357 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/6, 2-3=-103/65, 3-4=-18/0,

3-5=-290/128 BOT CHORD 2-5=-35/27

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 5 and 89 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.

LOAD CASE(S) Standard



May 26,2023



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

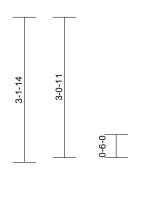


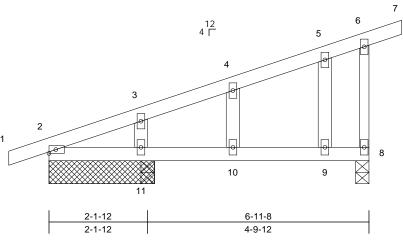
Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	C5	Monopitch Structural Gable	1	1	Job Reference (optional)	158592462

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-0-10-8	6-11-8	7-8-0
0-10-8	6-11-8	0-8-8





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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	0.15	Vert(LL)	-0.02	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.03	9-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	9-10	>999	240	Weight: 25 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

BOT CHORD

bracing.

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

Max Horiz 2=124 (LC 5)

Max Uplift 2=-17 (LC 4), 8=-60 (LC 8), 11=-99

(LC 8)

2=91 (LC 1), 8=250 (LC 1), 11=395

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-102/16, 3-4=-101/0, 4-5=-69/0,

5-6=-45/12, 6-7=-18/0, 6-8=-164/52

BOT CHORD 2-11=-29/23, 10-11=-29/23, 9-10=-29/23,

8-9=-29/23

3-11=-240/98, 4-10=-55/48, 5-9=-30/27

WEBS NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable 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.

- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 8, 17 lb uplift at joint 2 and 99 lb uplift at joint 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



May 26,2023



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

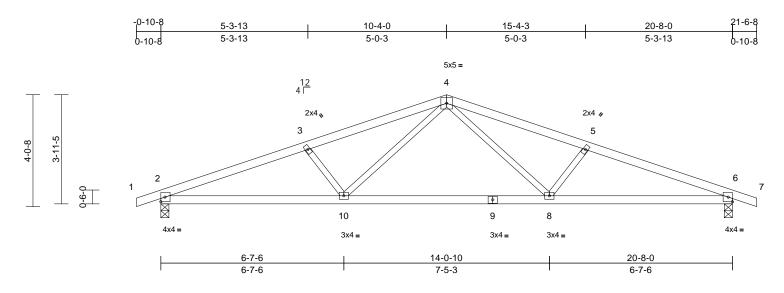
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	D1	Common	5	1	Job Reference (optional)	158592463

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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	0.34	Vert(LL)	-0.10	8-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.22	8-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	8-10	>999	240	Weight: 62 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-8-15 oc purlins.

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

bracing.

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

Max Horiz 2=66 (LC 12)

Max Uplift 2=-178 (LC 4), 6=-178 (LC 5) Max Grav 2=988 (LC 1), 6=988 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-2045/297, 3-4=-1836/268, 4-5=-1836/268, 5-6=-2045/297, 6-7=0/6

BOT CHORD 2-10=-275/1859, 8-10=-118/1278,

6-8=-225/1859

WEBS 4-8=-84/598, 5-8=-327/179, 4-10=-83/598,

3-10=-327/179

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 2 and 178 lb uplift at joint 6.

6) 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



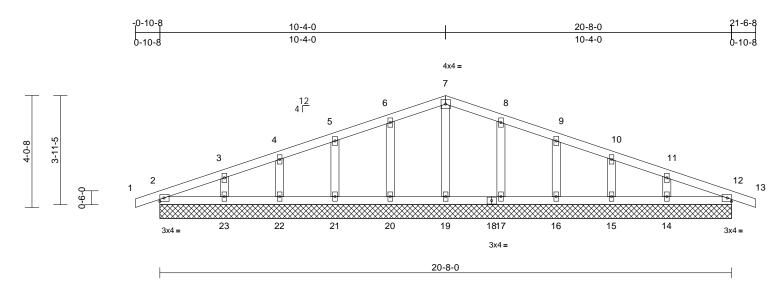
May 26,2023



Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	D2	Common Supported Gable	1	1	Job Reference (optional)	158592464

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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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 70 lb	FT = 10%

LUMBER

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

2=20-8-0, 12=20-8-0, 14=20-8-0, 15=20-8-0, 16=20-8-0, 17=20-8-0, 19=20-8-0, 20=20-8-0, 21=20-8-0,

22=20-8-0, 23=20-8-0

Max Horiz 2=66 (LC 8)

Max Uplift 2=-40 (LC 4), 12=-49 (LC 5), 14=-52 (LC 9), 15=-42 (LC 5), 16=-43 (LC 9), 17=-46 (LC 9),

20=-47 (LC 8), 21=-42 (LC 8), 22=-42 (LC 4), 23=-55 (LC 8)

Max Grav 2=163 (LC 1), 12=163 (LC 1), 14=207 (LC 22), 15=173 (LC 22), 16=180 (LC 1), 17=191 (LC 22),

16=180 (LC 1), 17=191 (LC 22), 19=162 (LC 1), 20=191 (LC 21), 21=180 (LC 1), 22=173 (LC 21),

23=207 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-73/47, 3-4=-47/52, 4-5=-31/67,

5-6=-29/84, 6-7=-32/102, 7-8=-32/98, 8-9=-29/68, 9-10=-29/40, 10-11=-31/22,

11-12=-50/27, 12-13=0/6

BOT CHORD 2-23=-3/53, 22-23=-3/53, 21-22=-3/53,

20-21=-3/53, 19-20=-3/53, 17-19=-3/53, 16-17=-3/53, 15-16=-3/53, 14-15=-3/53,

12-14=-3/53

WEBS 7-19=-122/0, 6-20=-151/71, 5-21=-139/67,

4-22=-136/65, 3-23=-156/81, 8-17=-151/70, 9-16=-139/67, 10-15=-136/65, 11-14=-156/78

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2, 47 lb uplift at joint 20, 42 lb uplift at joint 21, 42 lb uplift at joint 22, 55 lb uplift at joint 23, 46 lb uplift at joint 17, 43 lb uplift at joint 16, 42 lb uplift at joint 15, 52 lb uplift at joint 14 and 49 lb uplift at joint 12.
- 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



May 26,2023

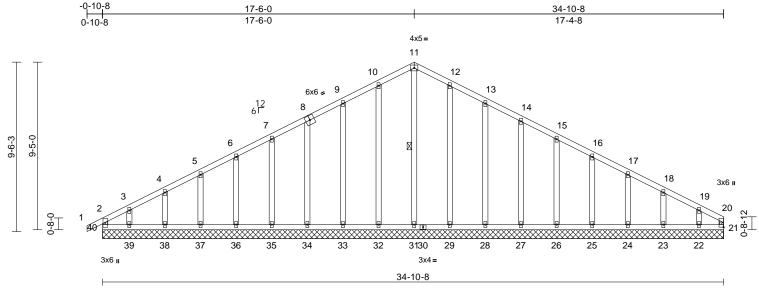




Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	E1	Common Supported Gable	1	1	Job Reference (optional)	I58592465

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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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	21	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 176 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 20-21:2x3 SPF No.2 WEBS

2x4 SPF No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

BOT CHORD

bracing.

WEBS 1 Row at midpt 11-31 21=34-10-8, 22=34-10-8, REACTIONS (size) 23=34-10-8. 24=34-10-8. 25=34-10-8, 26=34-10-8 27=34-10-8, 28=34-10-8 29=34-10-8, 31=34-10-8, 32=34-10-8, 33=34-10-8, 34=34-10-8, 35=34-10-8 36=34-10-8, 37=34-10-8, 38=34-10-8, 39=34-10-8, 40=34-10-8

Max Horiz 40=156 (LC 8)

Max Uplift 22=-108 (LC 9), 23=-47 (LC 9), 24=-56 (LC 9), 25=-53 (LC 9), 26=-54 (LC 9), 27=-53 (LC 9), 28=-58 (LC 9), 29=-48 (LC 9), 32=-51 (LC 8), 33=-55 (LC 8), 34=-53 (LC 8), 35=-57 (LC 8), 36=-53 (LC 8), 37=-57 (LC 8), 38=-44 (LC 8), 39=-116 (LC 8).

40=-48 (LC 4)

Max Grav 21=100 (LC 9), 22=161 (LC 22), 23=184 (LC 1), 24=179 (LC 22), 25=180 (LC 1), 26=180 (LC 22), 27=180 (LC 1), 28=179 (LC 1), 29=190 (LC 22), 31=214 (LC 18), 32=191 (LC 21), 33=174 (LC 1), 34=181 (LC 1), 35=184 (LC 21), 36=180 (LC 1), 37=178 (LC 21), 38=189 (LC 1), 39=136 (LC 15),

40=173 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 2-40=-140/47, 1-2=0/32, 2-3=-198/80, 3-4=-144/84, 4-5=-107/97, 5-6=-78/123 6-7=-65/149, 7-9=-55/201, 9-10=-38/227, 10-11=-42/250, 11-12=-42/242, 12-13=-39/199, 13-14=-39/152

14-15=-39/118, 15-16=-39/92, 16-17=-39/66, 17-18=-61/44, 18-19=-86/36, 19-20=-137/29,

20-21=-68/3

BOT CHORD 39-40=-27/113, 38-39=-27/113, 37-38=-27/113, 36-37=-27/113, 35-36=-27/113, 34-35=-27/113,

33-34=-27/113, 32-33=-27/113, 31-32=-27/113, 29-31=-27/113, 28-29=-27/113, 27-28=-27/113, 26-27=-27/113, 25-26=-27/113,

24-25=-27/113, 23-24=-27/113, 22-23=-27/113, 21-22=-27/113

11-31=-174/0, 10-32=-151/75, 9-33=-134/79, 8-34=-141/78, 7-35=-144/81, 6-36=-139/77, 5-37=-139/79, 4-38=-147/74, 3-39=-101/105, 12-29=-150/72, 13-28=-139/82,

14-27=-140/77, 15-26=-140/78, 16-25=-140/78, 17-24=-139/78 18-23=-143/76, 19-22=-125/98

NOTES

WEBS

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



ontinued 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 besign value to use only with recks colline tools. This design is based only upon parameters shown, and is not an individual busining denipolinit, 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)



Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	E1	Common Supported Gable	1	1	Job Reference (optional)	58592465

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10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 40, 51 lb uplift at joint 32, 55 lb uplift at joint 33, 53 lb uplift at joint 34, 57 lb uplift at joint 35, 53 lb uplift at joint 36, 57 lb uplift at joint 37, 44 lb uplift at joint 38, 116 lb uplift at joint 39, 48 lb uplift at joint 29, 58 lb uplift at joint 28, 53 lb uplift at joint 27, 54 lb uplift at joint 26, 53 lb uplift at joint 25, 56 lb uplift at joint 24, 47 lb uplift at joint 23 and 108 lb uplift at joint 22.

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.

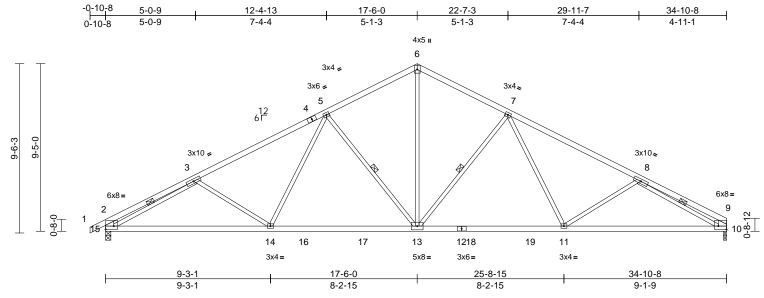
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	E2	Common	7	1	Job Reference (optional)	158592466

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Fri May 26 08:47:50 ID:IpnO10ZFdF1T0VaStrr?zJzsVXo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:64.7

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.24	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.40	13-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.11	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.11	13-14	>999	240	Weight: 135 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 12-10:2x4 SPF

2400F 2.0E

WEBS 2x3 SPF No.2 *Except* 15-2,10-9:2x6 SPF

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing, Except:

1-4-12 oc bracing: 14-15.

WEBS 1 Row at midpt 7-13, 5-13, 3-15, 8-10

REACTIONS (size) 10=0-2-0, 15=0-3-8

Max Horiz 15=156 (LC 12)

Max Uplift 10=-192 (LC 9), 15=-218 (LC 8)

Max Grav 10=1641 (LC 2), 15=1706 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35, 2-3=-788/69, 3-5=-2579/307,

5-6=-1872/288, 6-7=-1872/288,

7-8=-2560/305, 8-9=-618/37, 2-15=-525/102,

9-10=-365/55

BOT CHORD 14-15=-426/2368, 13-14=-222/2015,

11-13=-101/2006, 10-11=-290/2333 6-13=-167/1383, 7-13=-680/260,

7-11=-14/484, 8-11=-284/233,

5-13=-692/262, 5-14=-14/502,

3-14=-298/235, 3-15=-2004/318,

8-10=-2145/348

NOTES

WEBS

- 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=25ft; Cat. II: Exp C: Enclosed: MWFRS (envelope) exterior zone: cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at joint 15 and 192 lb uplift at joint 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



May 26,2023

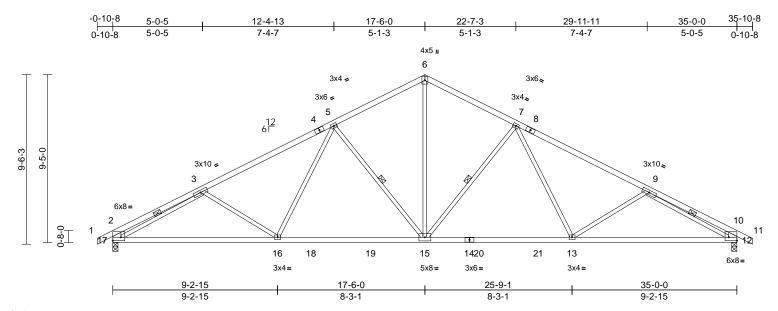
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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	Lot 119 H4	
B240046	E3	Common	1	1	Job Reference (optional)	158592467

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Fri May 26 08:47:51 ID:IpnO10ZFdF1T0VaStrr?zJzsVXo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:64.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.Ó	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.25	13-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.41	13-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.12	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.11	15-16	>999	240	Weight: 136 lb	FT = 10%

LUMBER

WEBS

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

2x3 SPF No.2 *Except* 17-2,12-10:2x6 SPF

No.2

BRACING

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

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

bracing.

WEBS 1 Row at midpt 7-15, 5-15, 3-17, 9-12

REACTIONS (size) 12=0-3-8, 17=0-3-8

Max Horiz 17=146 (LC 8)

Max Uplift 12=-219 (LC 9), 17=-219 (LC 8)

Max Grav 12=1711 (LC 2), 17=1711 (LC 2) (lb) - Maximum Compression/Maximum

FORCES (lb) - Maximum Co

TOP CHORD 1-2=0/35, 2-3=-787/67, 3-5=-2589/307,

5-6=-1884/288, 6-7=-1884/288,

7-9=-2589/308, 9-10=-787/66, 10-11=0/35,

2-17=-524/101, 10-12=-524/101 16-17=-418/2378, 15-16=-213/2025,

13-15=-92/2025, 12-13=-272/2376

WEBS 6-15=-167/1395, 7-15=-692/263,

7-13=-15/499, 9-13=-297/235,

5-15=-692/263, 5-16=-14/499,

3-16=-297/235, 3-17=-2015/322,

9-12=-2015/322

NOTES

BOT CHORD

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 17 and 219 lb uplift at joint 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



May 26,2023

Page: 1





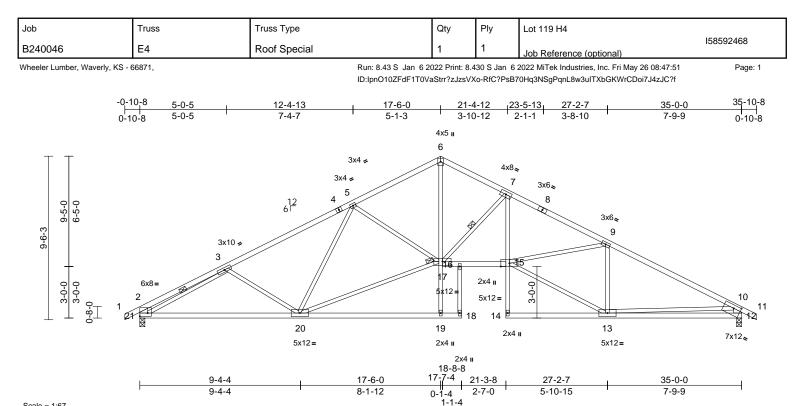


Plate Offsets (X, Y): [2:Edge,0-2-4], [12:0-5-0,0-2-4], [17:0-6-0,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.27	14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.50	19-20	>836	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.29	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.17	15-16	>999	240	Weight: 154 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 18-16,7-14:2x3 SPF

No.2

WEBS 2x3 SPF No.2 *Except* 21-2,12-10:2x6 SP

DSS

BRACING TOP CHORD

Structural wood sheathing directly applied or

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

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

bracing, Except:

8-10-14 oc bracing: 20-21 6-0-0 oc bracing: 16-18.

WEBS 1 Row at midpt 7-17, 3-21

JOINTS 1 Brace at Jt(s): 17

REACTIONS (size) 12=0-3-8, 21=0-3-8 Max Horiz 21=146 (LC 12)

Max Uplift 12=-219 (LC 9), 21=-219 (LC 8)

Max Grav 12=1632 (LC 1), 21=1632 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35, 2-3=-692/65, 3-5=-2403/305,

5-6=-2538/299, 6-7=-2544/320,

7-9=-3637/329, 9-10=-2613/312, 10-11=0/35

2-21=-511/101. 10-12=-1554/262 20-21=-418/2270, 19-20=0/31, 18-19=-2/22,

BOT CHORD 16-18=-92/0, 16-17=-134/3136,

15-16=-137/3161, 14-15=0/91,

7-15=-80/1180, 13-14=0/27, 12-13=-259/943 **WEBS** 3-20=-301/236, 5-20=-547/93,

5-17=-273/218, 17-19=0/283, 6-17=-195/1941, 7-17=-1399/250,

13-15=-194/2495, 9-15=-42/957, 9-13=-1124/179, 3-21=-1999/323

10-13=-9/1283, 17-20=-274/2390

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 12 and 219 lb uplift at joint 21.
- 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



May 26,2023



NOTES







Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	G1	GABLE	1	1	Job Reference (optional)	158592469

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Fri May 26 08:47:51 ID:IpnO10ZFdF1T0VaStrr?zJzsVXo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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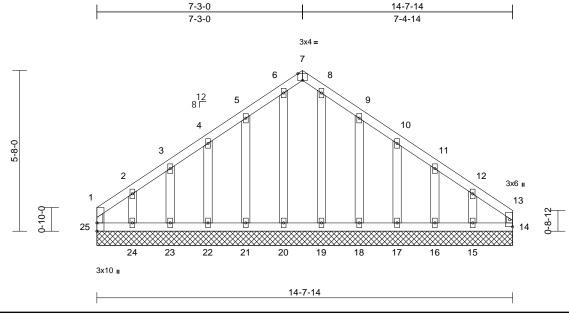


Plate Offsets	(X, Y):	[7:0-2-0,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 71 lb	FT = 10%

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

BRACING

Scale = 1:40.6

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

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

bracing.

REACTIONS (size) 14=14-7-14, 15=14-7-14, 16=14-7-14, 17=14-7-14, 18=14-7-14, 19=14-7-14, 20=14-7-14, 21=14-7-14,

> 22=14-7-14, 23=14-7-14, 24=14-7-14, 25=14-7-14

Max Horiz 25=-147 (LC 4)

14=-41 (LC 5), 15=-95 (LC 9), Max Uplift 16=-35 (LC 9), 17=-48 (LC 9), 18=-63 (LC 9), 21=-63 (LC 8),

22=-48 (LC 8), 23=-35 (LC 8), 24=-103 (LC 8), 25=-59 (LC 4)

14=95 (LC 15), 15=162 (LC 16) Max Grav 16=118 (LC 1), 17=126 (LC 16), 18=127 (LC 16), 19=120 (LC 17),

20=121 (LC 18), 21=127 (LC 15), 22=126 (LC 15), 23=121 (LC 1), 24=163 (LC 15), 25=104 (LC 16)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-25=-76/44, 1-2=-101/87, 2-3=-76/62, 3-4=-69/72, 4-5=-59/96, 5-6=-51/129, 6-7=-37/100, 7-8=-34/98, 8-9=-45/126

9-10=-54/94, 10-11=-64/69, 11-12=-72/55, 12-13=-92/79, 13-14=-72/34

BOT CHORD

24-25=-71/84, 23-24=-71/84, 22-23=-71/84, 21-22=-71/84, 20-21=-71/84, 19-20=-71/84, 18-19=-71/84, 17-18=-71/84, 16-17=-71/84,

15-16=-71/84, 14-15=-71/84 2-24=-115/89, 3-23=-95/58, 4-22=-98/62, 5-21=-100/79, 6-20=-95/0, 8-19=-93/0,

9-18=-101/80, 10-17=-98/62, 11-16=-94/57, 12-15=-118/88

NOTES

WEBS

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 25, 41 lb uplift at joint 14, 103 lb uplift at joint 24, 35 lb uplift at joint 23, 48 lb uplift at joint 22, 63 lb uplift at joint 21, 63 lb uplift at joint 18, 48 lb uplift at joint 17, 35 lb uplift at joint 16 and 95 lb uplift at joint 15.

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



May 26,2023



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



Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	G2	GABLE	1	1	Job Reference (optional)	158592470

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Fri May 26 08:47:52 ID:IpnO10ZFdF1T0VaStrr?zJzsVXo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

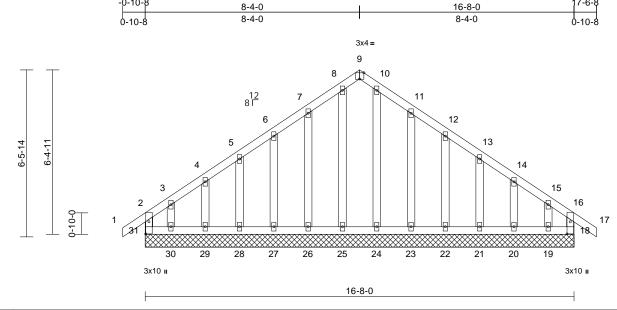


Plate Offsets (X, Y): [9:0-2-0,Edge], [18:0-5-10,0-1-8], [31:0-5-10,0-1-8]

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	18	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 89 lb	FT = 10%

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

BRACING TOP CHORD

Scale = 1:44.8

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

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

bracing.

REACTIONS (size) 18=16-8-0, 19=16-8-0, 20=16-8-0, 21=16-8-0, 22=16-8-0, 23=16-8-0, 24=16-8-0, 25=16-8-0, 26=16-8-0, 27=16-8-0, 28=16-8-0, 29=16-8-0, 28=

30=16-8-0, 31=16-8-0 Max Horiz 31=184 (LC 7)

Max Uplift 18=-56 (LC 5), 19=-114 (LC 9), 20=-38 (LC 9), 21=-49 (LC 9), 22=-45 (LC 9), 23=-65 (LC 9), 26=-63 (LC 8), 27=-45 (LC 8),

28=-49 (LC 8), 29=-36 (LC 8), 30=-128 (LC 8), 31=-98 (LC 4) 18=160 (LC 15), 19=117 (LC 7),

Max Grav 18=160 (LC 15), 19=117 (LC 7), 20=129 (LC 22), 21=124 (LC 16), 22=124 (LC 16), 24=127 (LC 17), 25=136 (LC 18), 26=125 (LC 15), 27=124 (LC 15), 28=125 (LC 15), 29=129 (LC 21), 30=145 (LC 6), 31=194 (LC 16)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-31=-1

2-31=-153/72, 1-2=0/40, 2-3=-140/123, 3-4=-94/94, 4-5=-83/83, 5-6=-71/91, 6-7=-58/115, 7-8=-49/149, 8-9=-36/113, 9-10=-32/109, 10-11=-29/130, 11-12=-31/98, 12-13=-40/73, 13-14=-50/51, 14-15=-61/64, 15-16=-114/80, 16-17=0/40, 16-18=-130/42

BOT CHORD 30-31=-81/104, 29-30=-81/104, 28-29=-81/104, 27-28=-81/104, 26-27=-81/104, 25-26=-81/104, 24-25=-81/104, 23-24=-81/104, 22-23=-81/104, 21-22=-81/104, 20-24-24-25=-81/104, 21-22=-81/104, 21-22=-81/104, 21-24-24

20-21=-81/104, 19-20=-81/104, 18-19=-81/104

18-19=-81/104 WEBS 3-30=-84/91, 4-29=-101/60, 5-28=-97/63.

6-27=-98/62, 7-26=-98/79, 8-25=-109/6, 10-24=-101/0, 11-23=-101/81, 12-22=-98/62, 13-21=-97/63, 14-20=-102/61, 15-19=-73/84

NOTES

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
 Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 31, 56 lb uplift at joint 18, 128 lb uplift at joint 30, 36 lb uplift at joint 29, 49 lb uplift at joint 28, 45 lb uplift at joint 27, 63 lb uplift at joint 26, 65 lb uplift at joint 23, 45 lb uplift at joint 22, 49 lb uplift at joint 21, 38 lb uplift at joint 20 and 114 lb uplift at joint 19.
- 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



May 26,2023

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	Lot 119 H4	
B240046	G3	Common	1	1	Job Reference (optional)	158592471

4-4-0

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Fri May 26 08:47:52 ID:IpnO10ZFdF1T0VaStrr?zJzsVXo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



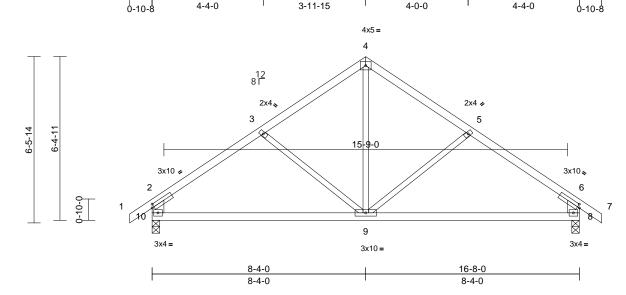


Plate Offsets (X, Y): [2:0-1-0,0-1-8], [6:0-1-0,0-1-8]

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	0.59	Vert(LL)	-0.08	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.17	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	9	>999	240	Weight: 60 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 10-2,8-6:2x6 SP

2400F 2.0E

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or 5-2-9 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 10=186 (LC 7)

Max Uplift 8=-107 (LC 9), 10=-107 (LC 8) Max Grav 8=807 (LC 1), 10=807 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/43, 2-3=-883/132, 3-4=-663/129, 4-5=-663/129, 5-6=-883/132, 6-7=0/43,

2-10=-719/148, 6-8=-719/148

BOT CHORD 9-10=-114/667. 8-9=-29/633

WFBS 4-9=-39/388, 5-9=-200/175, 3-9=-200/175

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 10 and 107 lb uplift at joint 8.
- 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

OF MISS SCOTT M SEVIER NUMBER PE-200101880

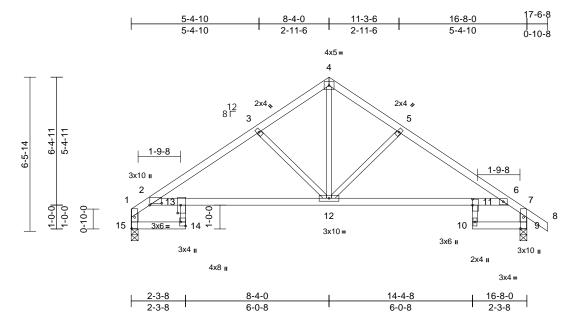
May 26,2023

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Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	G4	Roof Special	1	1	Job Reference (optional)	158592472

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Fri May 26 08:47:52 ID:IpnO10ZFdF1T0VaStrr?zJzsVXo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:48.5

Plate Offsets (X, Y): [1:0-5-10,0-1-8], [2:0-6-2,0-0-15], [9:0-5-10,0-1-8], [11:0-3-0,Edge], [13:0-4-0,0-1-8], [14: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	0.56	Vert(LL)	-0.14	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.30	12-13	>645	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.26	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.14	12-13	>999	240	Weight: 59 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 4-8:2x4 SPF 2100F

1.8E

BOT CHORD 2x4 SPF No.2 *Except* 14-13,11-10:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 15-1,9-7:2x4 SPF

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

4-4-14 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing. Except:

10-0-0 oc bracing: 11-12 REACTIONS (size) 9=0-3-8, 15=0-3-8

Max Horiz 15=-178 (LC 4)

Max Uplift 9=-106 (LC 9), 15=-82 (LC 8)

Max Grav 9=811 (LC 1), 15=735 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-538/108. 2-3=-1085/149. 3-4=-860/133.

4-5=-860/143, 5-6=-1086/136, 6-7=-514/96, 7-8=0/40, 1-15=-745/115, 7-9=-818/125

BOT CHORD 14-15=-70/208, 13-14=-15/71, 2-13=-42/709,

12-13=-112/903, 11-12=-29/882, 6-11=-7/740,

10-11=0/51, 9-10=-30/142

WEBS 4-12=-101/756, 3-12=-367/184,

5-12=-352/171

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 15 and 106 lb uplift at joint 9.
- 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

OF MISS SCOTT M **SEVIER** NUMBER PE-2001018807

May 26,2023

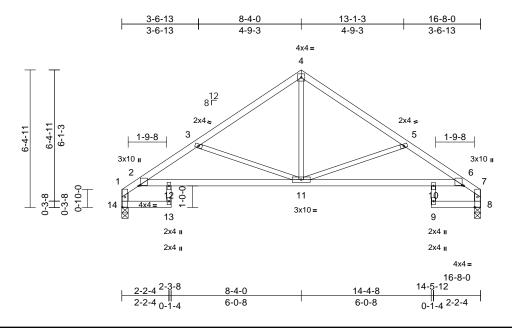
Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	G5	Roof Special	4	1	Job Reference (optional)	158592473

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Fri May 26 08:47:53 ID:IpnO10ZFdF1T0VaStrr?zJzsVXo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:53.5

Plate Offsets (X, Y): [1:0-5-10,0-1-8], [2:0-1-0,0-0-6], [6:0-1-0,0-0-6], [7:0-5-10,0-1-8]

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	0.47	Vert(LL)	-0.09	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.22	10-11	>905	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.22	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	11-12	>999	240	Weight: 60 lb	FT = 10%

LUMBER

BRACING

WEBS

TOP CHORD 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 *Except* 14-1,8-7:2x4 SPF

TOP CHORD Structural wood sheathing directly applied or

5-10-6 oc purlins, except end verticals.

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

bracing. Except:

10-0-0 oc bracing: 10-11

REACTIONS (size) 8=0-3-8, 14=0-3-8 Max Horiz 14=-166 (LC 4)

Max Uplift 8=-82 (LC 9), 14=-82 (LC 8)

Max Grav 8=737 (LC 1), 14=737 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

1-2=-422/107, 2-3=-1276/223, 3-4=-880/113, TOP CHORD

4-5=-880/134, 5-6=-1276/188, 6-7=-390/51,

1-14=-740/114, 7-8=-740/103

13-14=0/0, 2-12=-236/1144,

11-12=-236/1144, 10-11=-121/1110, 6-10=-121/1110, 8-9=0/0

12-13=-13/59, 9-10=0/47, 4-11=-22/551,

3-11=-544/252, 5-11=-504/227

WEBS NOTES

BOT CHORD

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 14 and 82 lb uplift at joint 8.
- 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



May 26,2023

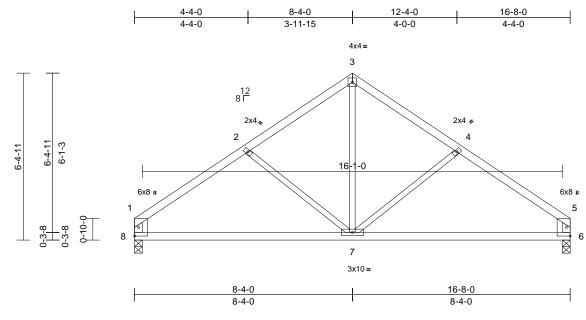




Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	G6	Common	1	1	Job Reference (optional)	158592474

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Scale = 1:44.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.09	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.18	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	7	>999	240	Weight: 56 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 8-1,6-5:2x4 SPF WEBS

2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-6-9 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 8=-166 (LC 4)

Max Uplift 6=-82 (LC 9), 8=-82 (LC 8)

Max Grav 6=737 (LC 1), 8=737 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-914/135, 2-3=-698/130, 3-4=-698/130,

4-5=-914/135, 1-8=-641/122, 5-6=-641/122

BOT CHORD 7-8=-132/690, 6-7=-57/671

WEBS 3-7=-41/403, 4-7=-228/182, 2-7=-228/182

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 8 and 82 lb uplift at joint 6.

6) 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



May 26,2023



Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	H1	Roof Special	2	1	Job Reference (optional)	158592475

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Fri May 26 08:47:53 ID:IpnO10ZFdF1T0VaStrr?zJzsVXo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

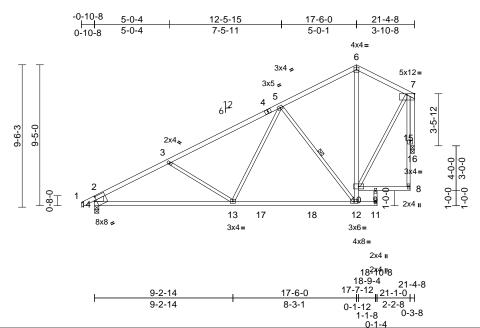


Plate Offsets (X, Y): [14:0-1-10,0-3-4]

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	0.87	Vert(LL)	-0.23	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.37	12-13	>672	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.26	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	12-13	>999	240	Weight: 96 lb	FT = 10%

LUMBER

WEBS

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

2x3 SPF No.2 *Except* 12-6:2x4 SPF 2100F

1.8E. 14-2:2x8 SP DSS

OTHERS 2x4 SPF No.2 BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing. WEBS

1 Row at midpt 5-12 REACTIONS (size) 14=0-3-8, 16=0-3-2

14=213 (LC 5) Max Horiz

Max Uplift 14=-17 (LC 8), 16=-50 (LC 8) Max Grav 14=1066 (LC 13), 16=993 (LC 13)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/37, 2-3=-1513/58, 3-5=-1254/19,

5-6=-496/50, 6-7=-488/59, 2-14=-927/64,

8-15=0/36, 7-15=0/36

BOT CHORD 13-14=-180/1310, 12-13=-67/843, 11-12=0/0,

9-10=-39/55, 8-9=-39/55

WEBS 9-11=-135/0, 3-13=-342/154, 5-13=0/542

5-12=-754/131, 10-12=-18/904, 6-10=-1/220,

7-10=-34/776, 7-16=-995/51

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 14 and 50 lb uplift at joint 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.

LOAD CASE(S) Standard



May 26,2023

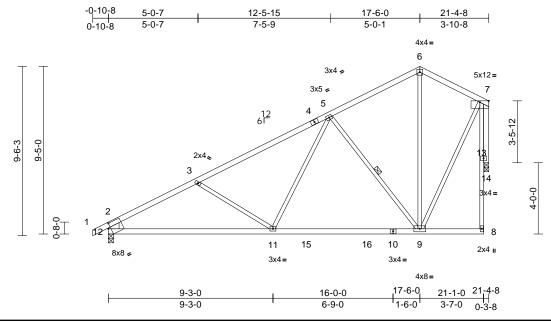
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Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	H2	Roof Special	3	1	Job Reference (optional)	158592476

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Page: 1



Scale = 1:64.7

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

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	0.86	Vert(LL)	-0.20	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.31	9-11	>801	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.19	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	9-11	>999	240	Weight: 93 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 12-2:2x8 SP DSS WEBS

OTHERS 2x4 SPF No.2

BRACING

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

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

bracing.

WEBS 1 Row at midpt

REACTIONS (size) 12=0-3-8, 14=0-3-2 Max Horiz 12=226 (LC 5)

Max Uplift 12=-17 (LC 8), 14=-50 (LC 8)

Max Grav 12=1063 (LC 13), 14=976 (LC 13)

FORCES (lb) - Maximum Compression/Maximum

1-2=0/37, 2-3=-1507/58, 3-5=-1247/20, TOP CHORD

5-6=-492/48, 6-7=-430/64, 2-12=-926/64,

8-13=0/33, 7-13=0/33

BOT CHORD 11-12=-165/1309, 9-11=-56/842, 8-9=-57/54 WEBS 3-11=-343/154. 5-11=0/540. 5-9=-747/131.

6-9=-8/181, 7-9=-30/789, 7-14=-979/51

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 12 and 50 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



May 26,2023







Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	Н3	Roof Special	3	1	Job Reference (optional)	158592477

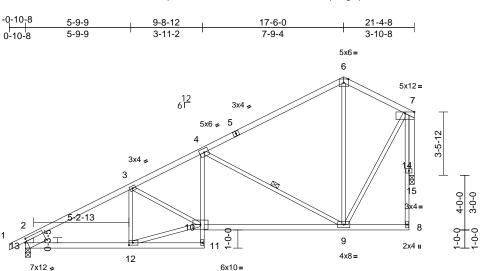
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21-4-8

0-3-8

21-1-0

3-7-0



17-6-0

7-8-0

Scale = 1:63.3

Plate Offsets (X, Y): [12:0-2-8,0-1-8], [13:0-1-4,0-2-8]

9-6-3 9-2-0

0-8-0

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	0.78	Vert(LL)	-0.12	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.27	9-10	>937	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.13	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	11	>999	240	Weight: 94 lb	FT = 10%

2x4 ı

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 11-4:2x3 SPF No.2 2x3 SPF No.2 *Except* 13-2:2x6 SP 2400F WEBS 2 0F

OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-0-3 oc purlins, except end verticals.

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

bracing, Except:

6-0-0 oc bracing: 11-12. **WEBS** 1 Row at midpt 4-9

REACTIONS (size) 13=0-3-8, 15=0-3-2

Max Horiz 13=268 (LC 8)

Max Uplift 13=-139 (LC 8), 15=-174 (LC 8) Max Grav 13=1025 (LC 1), 15=920 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35, 2-3=-1431/161, 3-4=-1389/229,

4-6=-568/84, 6-7=-454/123, 2-13=-936/175,

8-14=-4/21, 7-14=-4/21

BOT CHORD 12-13=-327/1170, 11-12=-46/37, 10-11=0/71,

4-10=-23/412, 9-10=-316/1251, 8-9=-52/50 **WEBS** 3-12=-239/134, 3-10=-1/68, 4-9=-981/322,

6-9=-36/142, 7-9=-149/729,

10-12=-290/1169, 7-15=-922/175

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 13 and 174 lb uplift at joint 15.
- 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=

9-10-0

4-0-6

5-9-9

5-9-9



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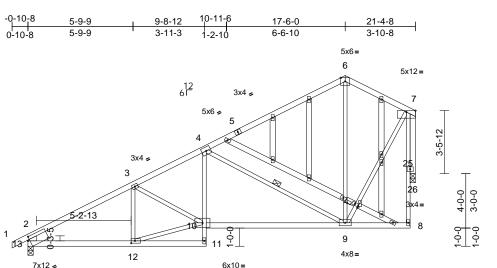
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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	Lot 119 H4	
B240046	H4	Roof Special Structural Gable	1	1	Job Reference (optional)	158592478

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Fri May 26 08:47:54 ID:IpnO10ZFdF1T0VaStrr?zJzsVXo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



17-6-0

7-8-0

20-1-8 21-1-0

2-7-8

0-11-8

0 - 3 - 8

Scale = 1:63.6

Plate Offsets (X, Y): [12:0-2-8,0-1-8], [13:0-1-4,0-2-8], [15:0-1-10,0-0-4], [16:0-0-13,0-0-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.12	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.27	9-10	>939	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.13	26	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	11	>999	240	Weight: 121 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 11-4:2x3 SPF No.2 2x3 SPF No.2 *Except* 13-2:2x6 SP 2400F WEBS

2.0E, 14-15,15-16,16-17:2x4 SPF No.2

OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-0-3 oc purlins, except end verticals.

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

bracing, Except: 6-0-0 oc bracing: 11-12.

WEBS 1 Row at midpt 4-9

REACTIONS (size) 13=0-3-8, 26=0-3-8

Max Horiz 13=268 (LC 8)

Max Uplift 13=-138 (LC 8), 26=-174 (LC 8)

Max Grav 13=1024 (LC 1), 26=921 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35, 2-3=-1430/161, 3-4=-1387/229,

4-6=-566/84, 6-7=-452/123, 2-13=-936/174,

8-25=-4/21, 7-25=-4/21

BOT CHORD 12-13=-327/1169, 11-12=-46/37, 10-11=0/71, 4-10=-23/412, 9-10=-316/1249, 8-9=-52/50

4-9=-981/322, 6-9=-37/141, 3-12=-239/134,

10-12=-290/1168, 3-10=-1/68, 7-9=-149/731,

7-26=-923/175

NOTES

WEBS

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.

3x6=

9-10-0

4-0-7

5-9-9

5-9-9

- 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.
- Bearing at joint(s) 26 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 13 and 174 lb uplift at joint 26.
- 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



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	Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
١	B240046	H5	Common Supported Gable	1	1	Job Reference (optional)	158592479

10-8-4

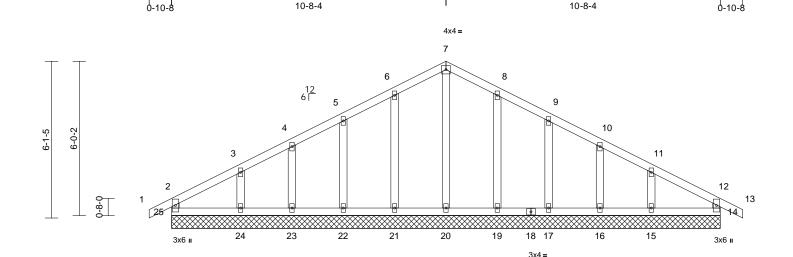
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Fri May 26 08:47:54 ID:IpnO10ZFdF1T0VaStrr?zJzsVXo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

21-4-8

Page: 1

22-3-0



Scale = 1:44.9

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 88 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size)

14=21-4-8, 15=21-4-8, 16=21-4-8, 17=21-4-8, 19=21-4-8, 20=21-4-8, 21=21-4-8, 22=21-4-8, 23=21-4-8, 24=21-4-8, 25=21-4-8

Max Horiz 25=-91 (LC 6)

Max Uplift

14=-18 (LC 8), 15=-84 (LC 9), 16=-44 (LC 9), 17=-57 (LC 9),

19=-54 (LC 9), 21=-55 (LC 8), 22=-58 (LC 8), 23=-42 (LC 8),

24=-90 (LC 8), 25=-33 (LC 9) 14=194 (LC 1), 15=213 (LC 22), Max Grav

16=171 (LC 1), 17=181 (LC 1), 19=190 (LC 22), 20=169 (LC 18), 21=190 (LC 21), 22=181 (LC 1), 23=171 (LC 1), 24=213 (LC 21),

25=194 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-25=-171/45, 1-2=0/32, 2-3=-98/59, 3-4=-65/86, 4-5=-54/112, 5-6=-48/138, 6-7=-51/162, 7-8=-51/155, 8-9=-48/115,

9-10=-48/88, 10-11=-51/63, 11-12=-79/40,

12-13=0/32. 12-14=-171/33 **BOT CHORD**

24-25=-17/74, 23-24=-17/74, 22-23=-17/74, 21-22=-17/74, 20-21=-17/74, 19-20=-17/74, 17-19=-17/74, 16-17=-17/74, 15-16=-17/74,

14-15=-17/74

WEBS

7-20=-129/0, 6-21=-150/79, 5-22=-140/81, 4-23=-134/69, 3-24=-161/108, 8-19=-150/78,

21-4-8

9-17=-140/81, 10-16=-134/70,

11-15=-161/104

NOTES

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 25, 18 lb uplift at joint 14, 55 lb uplift at joint 21, 58 lb uplift at joint 22, 42 lb uplift at joint 23, 90 lb uplift at joint 24, 54 lb uplift at joint 19, 57 lb uplift at joint 17, 44 lb uplift at joint 16 and 84 lb uplift at joint 15.
- 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



May 26,2023

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



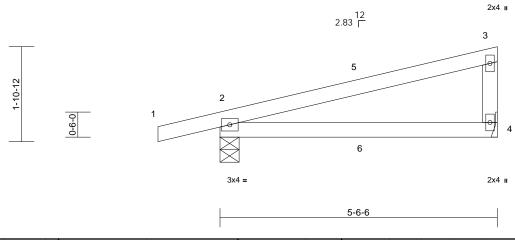
Jo	b	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B2	240046	J1	Diagonal Hip Girder	2	1	Job Reference (optional)	158592480

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Fri May 26 08:47:55 ID:eIVztmttrvqeWtykiiM9UhzAKds-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

1-9-10

-1-2-14	5-6-6
1-2-14	5-6-6



Scale = 1:23

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.04	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.09	2-4	>713	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 2=65 (LC 5)

Max Uplift 2=-108 (LC 4), 4=-43 (LC 8) Max Grav 2=347 (LC 1), 4=220 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/6, 2-3=-74/36, 3-4=-168/75

BOT CHORD 2-4=-21/16

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 4 and 108 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

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 67 lb down and 34 lb up at 2-9-8, and 67 lb down and 34 lb up at 2-9-8 on top chord, and 2 lb down at 2-9-8, and 2 lb down at 2-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft) Vert: 1-3=-70. 2-4=-20

> OF MISS SCOTT M. SEVIER PE-200101880

> > May 26,2023

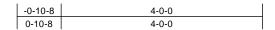


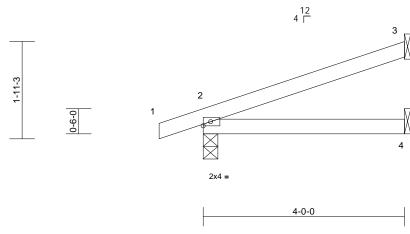


Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	J2	Jack-Open	3	1	Job Reference (optional)	58592481

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Page: 1





Scal	<u> </u>	- 1:0	22 0

		1	-		_			-				-
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.01	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	вс	0.14	Vert(CT)	-0.02	2-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		`					Weight: 11 lb	FT = 10%

LUMBER

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

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, 3= Mechanical, 4=

Mechanical

Max Horiz 2=67 (LC 4)

Max Uplift 2=-69 (LC 4), 3=-64 (LC 8) Max Grav 2=252 (LC 1), 3=123 (LC 1), 4=76

(LC 3)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-60/36

BOT CHORD 2-4=0/0

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 3 and 69 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.

LOAD CASE(S) Standard



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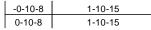
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

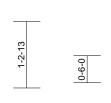
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

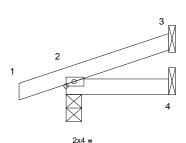


Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	J3	Jack-Open	4	1	Job Reference (optional)	158592482

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Fri May 26 08:47:55 ID:eIVztmttrvqeWtykiiM9UhzAKds-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f









Page: 1

1-10-15

Scal	o – 1	1.21	Δ

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)	0.00	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	2-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 6 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-10-15 oc purlins.

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

bracing.

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

Mechanical

Max Horiz 2=39 (LC 4)

Max Uplift 2=-56 (LC 4), 3=-29 (LC 8) Max Grav 2=163 (LC 1), 3=50 (LC 1), 4=37

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-35/15

BOT CHORD 2-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 2 and 29 lb uplift at joint 3.
- 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



May 26,2023



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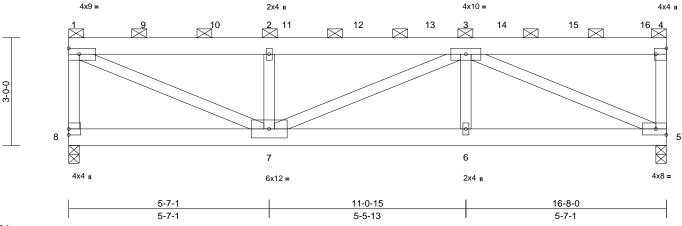
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	R1	Flat Girder	1	2	Job Reference (optional)	158592483

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Fri May 26 08:47:55 ID:IpnO10ZFdF1T0VaStrr?zJzsVXo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5-7-1	11-0-15	16-8-0
5-7-1	5-5-13	5-7-1



Scale = 1:32.1

Plate Offsets (X, Y): [4:Edge,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	0.37	Vert(LL)	-0.09	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.16	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	6-7	>999	240	Weight: 213 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-4, except

end verticals.

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

bracing.

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

Max Horiz 8=97 (LC 5)

Max Uplift 5=-336 (LC 5), 8=-505 (LC 4)

Max Grav 5=4786 (LC 15), 8=3821 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-8=-3696/518, 1-2=-6362/740,

2-3=-6362/740, 3-4=-215/39, 4-5=-1605/110 **BOT CHORD**

7-8=-97/206, 6-7=-568/6732, 5-6=-568/6732

WEBS 1-7=-791/6841, 2-7=-2816/510, 3-7=-492/0,

3-6=0/184. 3-5=-7212/590

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

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

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

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 505 lb uplift at joint 8 and 336 lb uplift at joint 5.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 850 lb down and 145 lb up at 2-1-0, 850 lb down and 145 lb up at 4-1-0, 850 lb down and 145 lb up at 6-1-0, 1011 lb down and 21 lb up at 8-1-0, 1011 lb down and 21 lb up at 10-1-0, 1011 lb down and 21 lb up at 12-1-0, and 1027 lb down and 22 lb up at 14-1-0, and 1037 lb down and 30 lb up at 16-1-0 on top chord. The design/ selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-4=-70, 5-8=-20

Concentrated Loads (lb)

Vert: 9=-850, 10=-850, 11=-850, 12=-846, 13=-846, 14=-846, 15=-846, 16=-866



May 26,2023

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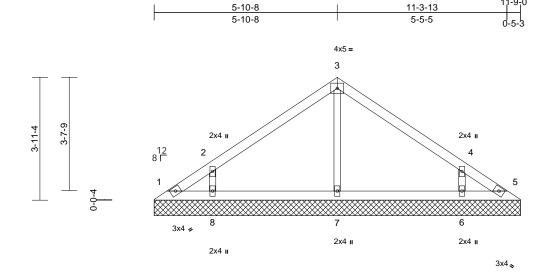
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	V1	Valley	1	1	Job Reference (optional)	158592484

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Fri May 26 08:47:56 ID:IpnO10ZFdF1T0VaStrr?zJzsVXo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:37

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 32 lb	FT = 10%

11-9-0

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=11-9-0, 5=11-9-0, 6=11-9-0,

7=11-9-0, 8=11-9-0 Max Horiz 1=-94 (LC 4)

Max Uplift

1=-42 (LC 6), 5=-24 (LC 7), 6=-139

(LC 9), 8=-140 (LC 8)

Max Grav 1=58 (LC 5), 5=46 (LC 9), 6=344 (LC 16), 7=284 (LC 1), 8=344 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-97/81, 2-3=-142/88, 3-4=-141/66,

4-5=-79/49

BOT CHORD 1-8=-21/68, 7-8=-21/68, 6-7=-21/68,

5-6=-21/68

WEBS 3-7=-199/28, 2-8=-284/184, 4-6=-284/184

NOTES

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 1, 24 lb uplift at joint 5, 140 lb uplift at joint 8 and 139 lb uplift at joint 6.
- 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



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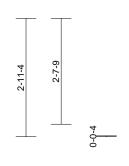


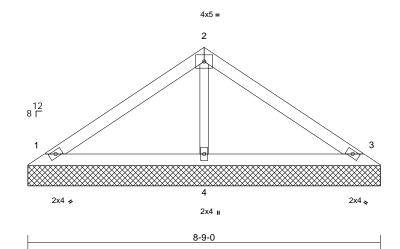
Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	V2	Valley	1	1	Job Reference (optional)	I58592485

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Fri May 26 08:47:56 ID:IpnO10ZFdF1T0VaStrr?zJzsVXo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:28.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS 1=8-9-0, 3=8-9-0, 4=8-9-0 (size)

Max Horiz 1=-68 (LC 4)

Max Uplift 1=-44 (LC 8), 3=-52 (LC 9)

Max Grav 1=199 (LC 1), 3=199 (LC 1), 4=309

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-123/63, 2-3=-119/47 **BOT CHORD** 1-4=-14/58, 3-4=-14/58

WEBS 2-4=-211/53

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

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 1 and 52 lb uplift at joint 3.
- 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



May 26,2023

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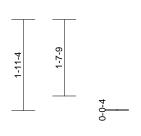


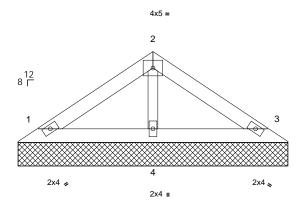
Job		Truss	Truss Type	Qty	Ply	Lot 119 H4	
B2400	046	V3	Valley	1	1	Job Reference (optional)	158592486

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1	1	5-9-0
2-10-8	5-3-13	
2-10-8	2-5-5	0-5-3





5-9-0

Scale = 1:24.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-9-12 oc purlins.

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

bracing.

REACTIONS 1=5-9-0, 3=5-9-0, 4=5-9-0 (size)

Max Horiz 1=-42 (LC 4)

Max Uplift 1=-27 (LC 8), 3=-32 (LC 9)

Max Grav 1=123 (LC 1), 3=123 (LC 1), 4=191

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-76/39, 2-3=-73/29 **BOT CHORD** 1-4=-9/36, 3-4=-9/36

WEBS 2-4=-130/33

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

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 1 and 32 lb uplift at joint 3.
- 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



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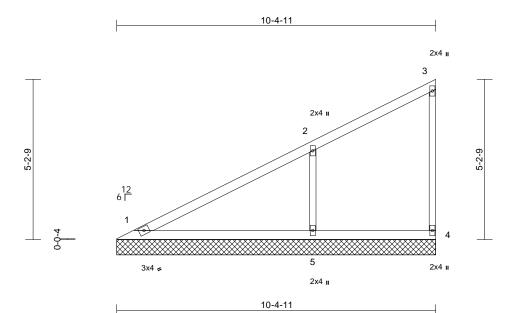
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Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	V4	Valley	1	1	Job Reference (optional)	158592487

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 30 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

1=10-4-11, 4=10-4-11, 5=10-4-11 REACTIONS (size)

Max Horiz 1=202 (LC 5)

Max Uplift 4=-29 (LC 5), 5=-168 (LC 8) Max Grav 1=211 (LC 1), 4=101 (LC 1), 5=561

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-158/104, 2-3=-132/53, 3-4=-82/38

BOT CHORD 1-5=-69/52, 4-5=-69/52 **WEBS** 2-5=-422/223

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 4 and 168 lb uplift at joint 5.
- 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



May 26,2023



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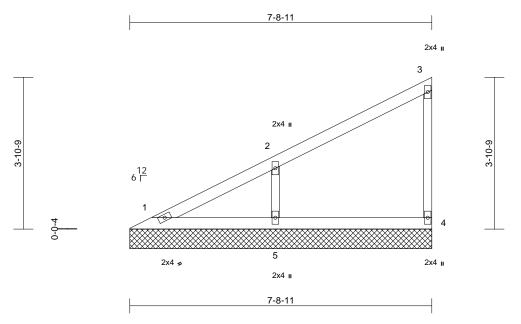
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Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	V5	Valley	1	1	Job Reference (optional)	158592488

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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	0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 22 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 1=7-8-11, 4=7-8-11, 5=7-8-11

Max Horiz 1=147 (LC 5)

Max Uplift 4=-26 (LC 5), 5=-120 (LC 8) Max Grav 1=105 (LC 16), 4=139 (LC 1),

5=399 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-120/67, 2-3=-111/44, 3-4=-108/44

BOT CHORD 1-5=-50/38, 4-5=-50/38

WEBS 2-5=-310/173

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 4 and 120 lb uplift at joint 5.
- 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



May 26,2023



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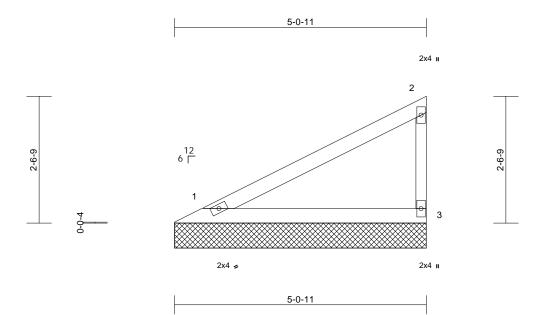
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	V6	Valley	1	1	Job Reference (optional)	158592489

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Page: 1



Scale = 1:23.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-1-3 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 1=91 (LC 5)

Max Uplift 1=-25 (LC 8), 3=-48 (LC 8) Max Grav 1=196 (LC 1), 3=196 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-83/55, 2-3=-153/74

BOT CHORD 1-3=-31/24

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1 and 48 lb uplift at joint 3.

8) 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

OF MISS SCOTT M. SEVIER PE-200101880

May 26,2023



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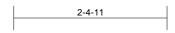
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

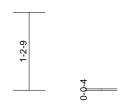


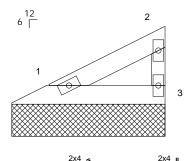
Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	V7	Valley	1	1	Job Reference (optional)	158592490

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Fri May 26 08:47:57 ID:IpnO10ZFdF1T0VaStrr?zJzsVXo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1









Scale = 1:18

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	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 6 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-5-3 oc purlins, except end verticals.

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

bracing.

REACTIONS 1=2-4-11, 3=2-4-11 (size)

Max Horiz 1=36 (LC 5)

Max Uplift 1=-10 (LC 8), 3=-19 (LC 8) Max Grav 1=76 (LC 1), 3=76 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-32/21, 2-3=-59/29

BOT CHORD 1-3=-12/9

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1 and 19 lb uplift at joint 3.

8) 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



May 26,2023



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

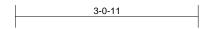


Ply Job Truss Truss Type Qty Lot 119 H4 158592491 B240046 V8 Valley Job Reference (optional)

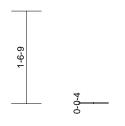
Wheeler Lumber, Waverly, KS - 66871,

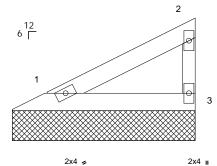
Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Fri May 26 08:47:57 ID:IpnO10ZFdF1T0VaStrr?zJzsVXo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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2x4 ı





3-0-11



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'									
CSI TC BC		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144	
BC	0.05	Vert(TL)	n/a	-	n/a	999			

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 7 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-3 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=3-0-11, 3=3-0-11

Max Horiz 1=49 (LC 5)

Max Uplift 1=-14 (LC 8), 3=-26 (LC 8) Max Grav 1=106 (LC 1), 3=106 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-45/30, 2-3=-83/40 BOT CHORD 1-3=-17/13

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1 and 26 lb uplift at joint 3.

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



May 26,2023



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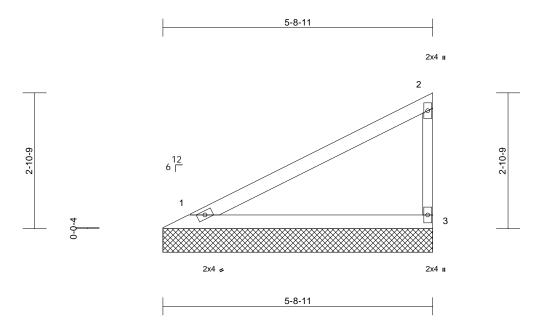
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	V9	Valley	1	1	Job Reference (optional)	158592492

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Fri May 26 08:47:57 ID:IpnO10ZFdF1T0VaStrr?zJzsVXo-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	0.49	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 15 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-3 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 1=105 (LC 5)

Max Uplift 1=-29 (LC 8), 3=-55 (LC 8) Max Grav 1=226 (LC 1), 3=226 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-96/63, 2-3=-176/86

BOT CHORD 1-3=-36/27

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 1 and 55 lb uplift at joint 3.

8) 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



May 26,2023



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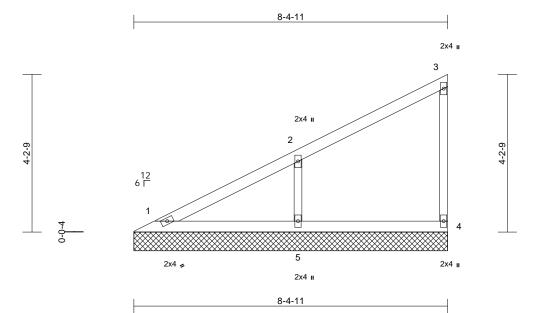
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	V10	Valley	1	1	Job Reference (optional)	158592493

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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	0.24	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 24 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 1=8-4-11, 4=8-4-11, 5=8-4-11

Max Horiz 1=160 (LC 5)

Max Uplift 4=-27 (LC 5), 5=-130 (LC 8) Max Grav 1=132 (LC 16), 4=133 (LC 1),

5=433 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-129/76, 2-3=-116/44, 3-4=-103/44

BOT CHORD 1-5=-55/42, 4-5=-55/42 2-5=-336/188

WEBS NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 4 and 130 lb uplift at joint 5.
- 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



May 26,2023

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

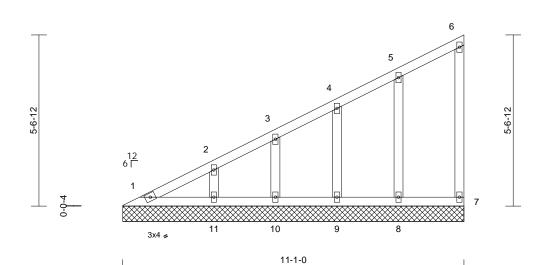
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 119 H4	
B240046	V11	Valley	1	1	Job Reference (optional)	158592494

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Scale = 1:37.4

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	0.12	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 43 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size)

9=11-1-0, 10=11-1-0, 11=11-1-0

Max Horiz 1=216 (LC 7)

Max Uplift 7=-29 (LC 5), 8=-58 (LC 8), 9=-54

(LC 8), 10=-50 (LC 8), 11=-69 (LC

1=11-1-0, 7=11-1-0, 8=11-1-0,

Max Grav 1=116 (LC 16), 7=74 (LC 1), 8=195

(LC 1), 9=180 (LC 1), 10=166 (LC

1), 11=229 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=-183/54, 2-3=-150/42, 3-4=-127/45, 4-5=-115/49, 5-6=-90/54, 6-7=-58/26

1-11=-74/56, 10-11=-74/56, 9-10=-74/56, **BOT CHORD** 8-9=-74/56. 7-8=-74/56

WEBS 2-11=-172/94, 3-10=-131/73, 4-9=-140/82,

5-8=-152/67

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 7, 69 lb uplift at joint 11, 50 lb uplift at joint 10, 54 lb uplift at joint 9 and 58 lb uplift at joint 8.
- 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



May 26,2023

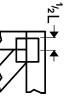
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

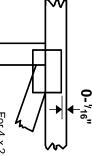


Symbols

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- $\frac{1}{16}$ " from outside edge of truss.

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

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

PLATE SIZE



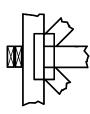
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

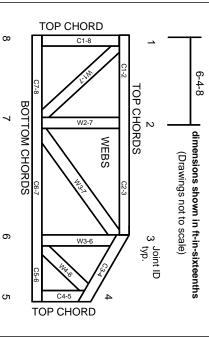
Industry Standards:

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

Failure to Follow Could Cause Property Damage or Personal Injury

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

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

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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