



RE: W0109 Lot 109 W0 MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Customer: Project Name: W0109

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

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 Roof Load: 45.0 psf Floor Load: N/A psf

This package includes 65 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	148824359	A3	11/17/2021	21	148824379	E2	11/17/2021
2	148824360	A4	11/17/2021	22	148824380	E3	11/17/2021
3	148824361	A5	11/17/2021	23	148824381	E4	11/17/2021
4	148824362	B1	11/17/2021	24	148824382	E5	11/17/2021
5	148824363	B2	11/17/2021	25	148824383	E6	11/17/2021
6	148824364	B3	11/17/2021	26	148824384	E7	11/17/2021
7	148824365	B4	11/17/2021	27	148824385	E8	11/17/2021
8	148824366	B5	11/17/2021	28	148824386	E9	11/17/2021
9	148824367	B6	11/17/2021	29	148824387	G1	11/17/2021
10	148824368	B7	11/17/2021	30	148824388	G2	11/17/2021
11	148824369	B8	11/17/2021	31	148824389	G3	11/17/2021
12	148824370	B9	11/17/2021	32	148824390	G4	11/17/2021
13	148824371	C1	11/17/2021	33	148824391	G5	11/17/2021
14	148824372	C2	11/17/2021	34	148824392	J4	11/17/2021
15	148824373	D1	11/17/2021	35	148824393	J5	11/17/2021
16	148824374	D2	11/17/2021	36	148824394	J6	11/17/2021
17	148824375	D3	11/17/2021	37	148824395	J7	11/17/2021
18	148824376	D4	11/17/2021	38	148824396	J8	11/17/2021
19	148824377	D5	11/17/2021	39	148824397	J9	11/17/2021
20	148824378	E1	11/17/2021	40	148824398	J10	11/17/2021

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: Garcia, Juan

My license renewal date for the state of Kansas is April 30, 2022.

Kansas COA: E-943

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.



1 of 2



RE: W0109 - Lot 109 W0

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Project Name: W0109

Project Customer: Lot/Block: Address: Subdivision:

City, County: State:

No.	Seal#	Truss Name	Date
41	148824399	J11	11/17/2021
42	148824400	J12	11/17/2021
43	148824401	J13	11/17/2021
44	148824402	J14	11/17/2021
45	148824403	J14A	11/17/2021
46	148824404	J15A	11/17/2021
47	148824405	J16	11/17/2021
48	148824406	J17A	11/17/2021
49	148824407	J18	11/17/2021
50	148824408	J19	11/17/2021
51	148824409	J20	11/17/2021
52	148824410	J21	11/17/2021
53	148824411	J22	11/17/2021
54	148824412	J23	11/17/2021
55	148824413	J24	11/17/2021
56	148824414	J25	11/17/2021
57	148824415	J26	11/17/2021
58	148824416	J27	11/17/2021
59	148824417	LAY1	11/17/2021
60	148824418	LAY2	11/17/2021
61	148824419	LAY3	11/17/2021
62	148824420	LAY4	11/17/2021
63	148824421	V1	11/17/2021
64	148824422	V2	11/17/2021
65	148824423	V3	11/17/2021



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Site Information:

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Lot/Block: Model:
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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 Roof Load: 45.0 psf Floor Load: N/A psf

This package includes 65 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	148824359	A3	11/17/2021	21	148824379	E2	11/17/2021
2	148824360	A4	11/17/2021	22	148824380	E3	11/17/2021
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20	148824378	E1	11/17/2021	40	148824398	J10	11/17/2021

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: Garcia, Juan

My license renewal date for the state of Missouri is December 31, 2022.

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.



November 17, 2021



RE: W0109 - Lot 109 W0

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Project Name: W0109

Project Customer: Lot/Block: Address: Subdivision:

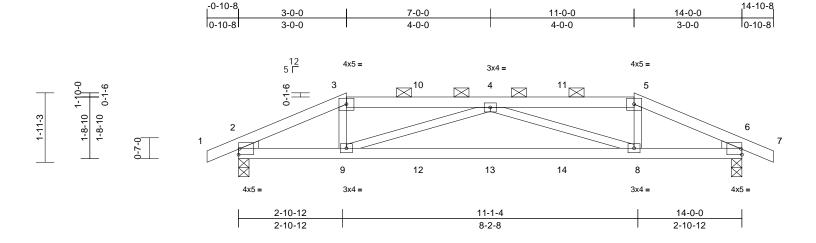
City, County: State:

No.	Seal#	Truss Name	Date
41	148824399	J11	11/17/2021
42	148824400	J12	11/17/2021
43	148824401	J13	11/17/2021
44	148824402	J14	11/17/2021
45	148824403	J14A	11/17/2021
46	148824404	J15A	11/17/2021
47	148824405	J16	11/17/2021
48	148824406	J17A	11/17/2021
49	148824407	J18	11/17/2021
50	148824408	J19	11/17/2021
51	148824409	J20	11/17/2021
52	148824410	J21	11/17/2021
53	148824411	J22	11/17/2021
54	148824412	J23	11/17/2021
55	148824413	J24	11/17/2021
56	148824414	J25	11/17/2021
57	148824415	J26	11/17/2021
58	148824416	J27	11/17/2021
59	148824417	LAY1	11/17/2021
60	148824418	LAY2	11/17/2021
61	148824419	LAY3	11/17/2021
62	148824420	LAY4	11/17/2021
63	148824421	V1	11/17/2021
64	148824422	V2	11/17/2021
65	148824423	V3	11/17/2021

Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	A3	Hip Girder	1	1	Job Reference (optional)	148824359

Run: 8.43 E Aug 16 2021 Print: 8.430 E Aug 16 2021 MiTek Industries, Inc. Wed Nov 17 11:12:01 ID:Q0Q4ZaspPQGcAy_pe?JcMnyKfK8-?WMSRXt4k8LZkEN1bLj69hL7jaLB61DAh2m0?lyIIIU

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Scale	 1・マク

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)	-0.13	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.28	8-9	>590	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	8-9	>999	240	Weight: 45 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 **BOT CHORD** 2x3 SPF No.2 WEBS Left: 2x3 SPF No.2 WEDGE Right: 2x3 SPF No.2

BRACING

Structural wood sheathing directly applied or TOP CHORD

5-1-5 oc purlins, except

2-0-0 oc purlins (5-3-14 max.): 3-5.

BOT CHORD Rigid ceiling directly applied or 7-10-7 oc

bracing.

REACTIONS (lb/size) 2=745/0-3-8, 6=745/0-3-8

Max Horiz 2=28 (LC 27)

Max Uplift 2=-220 (LC 4), 6=-220 (LC 5)

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

(lb) or less except when shown. TOP CHORD 2-3=-1310/346, 3-10=-1096/324

4-10=-1098/324, 4-11=-1098/323,

5-11=-1096/323, 5-6=-1310/346

BOT CHORD 2-9=-278/1121, 9-12=-548/1623,

12-13=-548/1623, 13-14=-548/1623,

8-14=-548/1623, 6-8=-282/1121

3-9=0/416, 5-8=0/416, 4-9=-577/284,

4-8=-577/284

WFBS 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
- 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.

- 5) * 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 220 lb uplift at joint 2 and 220 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.
- 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) 85 lb down and 151 lb up at 3-0-0, 69 lb down and 54 lb up at 5-0-0, 69 lb down and 54 lb up at 7-0-0, and 69 lb down and 54 lb up at 9-0-0, and 85 lb down and 151 lb up at 11-0-0 on top chord, and 26 lb down at 3-0-0, 16 lb down at 5-0-0, 16 lb down at 7-0-0, and 16 lb down at 9-0-0, and 26 lb down at 10-11-4 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

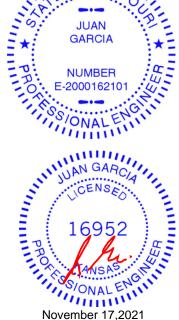
Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-5=-70, 5-7=-70, 2-6=-20

Concentrated Loads (lb)

Vert: 3=-15 (F), 5=-15 (F), 9=-8 (F), 8=-8 (F), 4=-15 (F), 10=-15 (F), 11=-15 (F), 12=-8 (F), 13=-8 (F), 14=-8 (F)

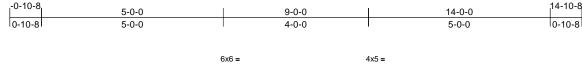


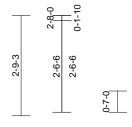


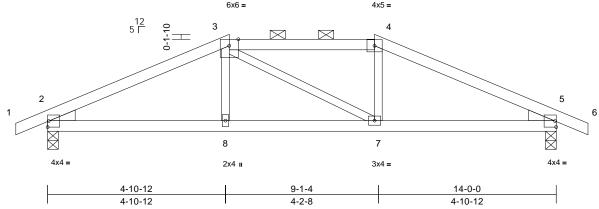
Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	A4	Hip	1	1	Job Reference (optional)	148824360

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:23 ID:32cBWsogateJ4B5ssSjRfjyKfKD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:31.7

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	0.40	Vert(LL)	-0.03	2-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.06	2-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	2-8	>999	240	Weight: 44 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS Left: 2x4 SP No.3 WEDGE Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-1-14 oc purlins, except

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

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

bracing.

REACTIONS (lb/size) 2=688/0-3-8, 5=688/0-3-8

Max Horiz 2=-42 (LC 13)

Max Uplift 2=-90 (LC 4), 5=-90 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-1042/113, 3-4=-871/125,

4-5=-1042/112, 5-6=0/6

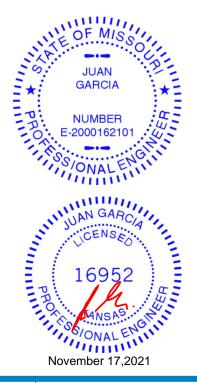
BOT CHORD 2-8=-59/876, 7-8=-62/871, 5-7=-56/876 WEBS 3-8=0/191, 3-7=-109/110, 4-7=0/192

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 2 and 90 lb uplift at joint 5.

- 7) 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.

LOAD CASE(S) Standard

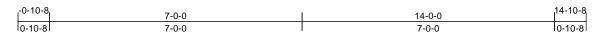


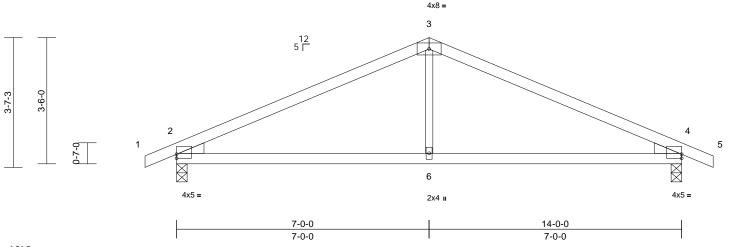


Job		Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0	109	A5	Common	5	1	Job Reference (optional)	148824361

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:23 ID:BHNggVIAXf7ubZo5dcfVVtyKfKH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:31.9

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

Loading	(nof)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	1/4	PLATES	GRIP
Loading	(psf)	Spacing	2-0-0	Col		DELL	in	(100)	i/deli	L/u	PLATES	GRIF
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.06	4-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.13	4-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	2-6	>999	240	Weight: 40 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS Left: 2x4 SP No.3 WEDGE Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-8-6 oc purlins.

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

bracing.

REACTIONS (lb/size) 2=688/0-3-8, 4=688/0-3-8

Max Horiz 2=-58 (LC 13)

Max Uplift 2=-102 (LC 8), 4=-102 (LC 9)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/6, 2-3=-933/104, 3-4=-933/104,

4-5=0/6 2-6=-41/758, 4-6=-41/758

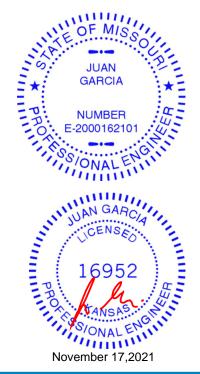
BOT CHORD WEBS 3-6=0/333

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 102 lb uplift at joint 2 and 102 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







Job		Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	9	B1	GABLE	1	1	Job Reference (optional)	148824362

Scale = 1:51.4

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:24 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

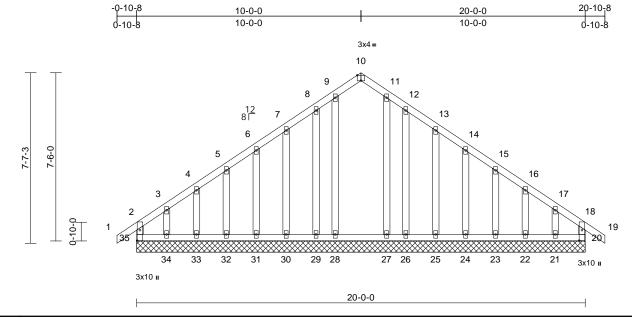


Plate Offsets (X, Y): [10:0-2-0,Edge], [20:0-5-10,0-1-8], [35:0-5-10,0-1-8]

32=-52 (LC 8), 33=-24 (LC 8),

34=-155 (LC 8), 35=-75 (LC 4)

20=202 (LC 18), 21=149 (LC 16),

22=143 (LC 16), 23=145 (LC 16),

24=143 (LC 16), 25=152 (LC 16),

26=88 (LC 16), 27=207 (LC 17),

28=218 (LC 18), 29=81 (LC 21),

30=151 (LC 15), 31=143 (LC 15),

32=146 (LC 15), 33=140 (LC 15),

34=164 (LC 15), 35=224 (LC 16)

(lb) - Maximum Compression/Maximum

Max Grav

Tension

FORCES

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	20	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 115 lb	FT = 10%

LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING	2x4 SPF 1 2x4 SPF 1 2x4 SPF 1 2x4 SPF 1	No.2 No.2	TOF	P CHORD	3-4=-122/99, 4-5=-106/86, 5-6=-95/76, 6-7=-87/84, 7-8=-78/111, 8-9=-59/149, 9-10=-67/111, 10-11=-60/104, 11-12=-35/130, 12-13=-54/95, 13-14=-63/69, 14-15=-72/47, 15-16=-82/55, 16-17=-107/68,
TOP CHORD		wood sheathing directly applied or ourlins, except end verticals.	вот	T CHORD	17-18=-175/95, 18-19=0/40, 18-20=-155/35 34-35=-93/154, 33-34=-93/154,
BOT CHORD	Rigid ceili bracing.	ng directly applied or 10-0-0 oc			32-33=-93/154, 31-32=-93/154, 30-31=-93/154, 29-30=-93/154, 28-29=-93/154, 27-28=-93/154,
REACTIONS		20=175/20-0-0, 21=67/20-0-0, 22=131/20-0-0, 23=118/20-0-0, 24=120/20-0-0, 25=123/20-0-0, 26=76/20-0-0, 27=149/20-0-0, 28=149/20-0-0, 31=120/20-0-0, 30=123/20-0-0, 31=120/20-0-0, 31=120/20-0-0, 31=120/20-0-0, 31=120/20-0-0, 31=120/20-0-0, 31=120/20-0-0, 31=120/20-0-0, 31=120/20-0-0, 31=120/20-0-0, 31=120/20-0-0, 31=120/20-0-0, 31=120/20-0-0, 31=120/20-0-0, 31=120/20-0-0, 31=213 (LC 7)	WE	BS	26-27=-93/154, 27-26=-93/154, 26-27=-93/154, 25-26=-93/154, 24-25=-93/154, 23-24=-93/154, 22-23=-93/154, 21-22=-93/154, 20-21=-93/154 3-34=-97/114, 4-33=-101/53, 5-32=-98/64, 6-31=-98/61, 7-30=-98/68, 8-29=-69/80, 9-28=-125/4, 11-27=-115/0, 12-26=-74/85, 13-25=-99/69, 14-24=-98/61, 15-23=-97/64, 16-22=-101/54, 17-21=-89/109
	Max Uplift	20=-43 (LC 5), 21=-145 (LC 9), 22=-26 (LC 9), 23=-51 (LC 9), 24=-44 (LC 9), 25=-51 (LC 9), 26=-77 (LC 9), 29=-73 (LC 8), 30=-51 (LC 8), 31=-45 (LC 8).	1)	this design.	d roof live loads have been considered for E 7-16; Vult=115mph (3-second gust)

- d for
- 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
- 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 BCOL = 10,0psf.
 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 35, 43 lb uplift at joint 20, 155 lb uplift at joint 34, 24 lb uplift at joint 33, 52 lb uplift at joint 32, 45 lb uplift at joint 31, 51 lb uplift at joint 30, 73 lb uplift at joint 29, 77 lb uplift at joint 26, 51 lb uplift at joint 25, 44 lb uplift at joint 26, 51 lb uplift at joint 23, 26 lb uplift at joint 22 and 145
- uplift at joint 26, 51:lb uplift at joint 25, 44 lb uplift at joint 24, 51 lb uplift at joint 23, 26 lb uplift at joint 22 and 145 lb uplift at joint 21 NUMBER

 11) This truss is designed in accordance with the 2018 International Residential Code sections R502, 43-1 and R802.10.2 and referenced standard ANSI/TEL1

 LOAD CASE(S) Standard



November 17,2021



Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	B2	Common	1	1	Job Reference (optional)	148824363

10-0-0

Wheeler Lumber, Waverly, KS - 66871,

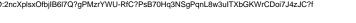
-0-10-8

10x12 4

5-2-0

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:24 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

14-9-15

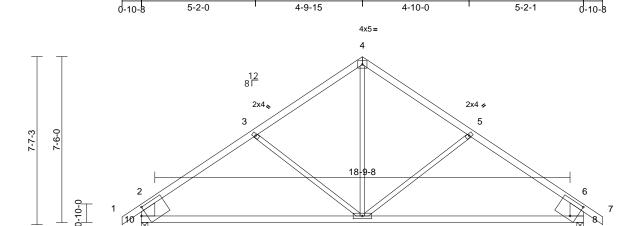


20-0-0

10-0-0

20-0-0

10x12



Scale = 1:52.1

Plate Offsets (X, Y): [8:0-3-6,0-8-1], [10:0-2-11,0-4-0]

					-		-					
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	0.77	Vert(LL)	-0.17	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.34	8-9	>677	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	9-10	>999	240	Weight: 72 lb	FT = 10%

9

3x10=

LUMBER

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

2x3 SPF No.2 *Except* 10-2,8-6:2x8 SP DSS WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 8=955/0-3-8, 10=955/0-3-8

Max Horiz 10=217 (LC 7)

Max Uplift 8=-125 (LC 9), 10=-125 (LC 8) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/46, 2-3=-1079/161, 3-4=-828/155,

4-5=-828/154, 5-6=-1079/161, 6-7=0/46,

2-10=-853/175, 6-8=-853/175

BOT CHORD 9-10=-143/819, 8-9=-40/783 **WEBS** 4-9=-46/479, 5-9=-255/212, 3-9=-254/211

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 125 lb uplift at joint 10 and 125 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

10-0-0

10-0-0



Page: 1

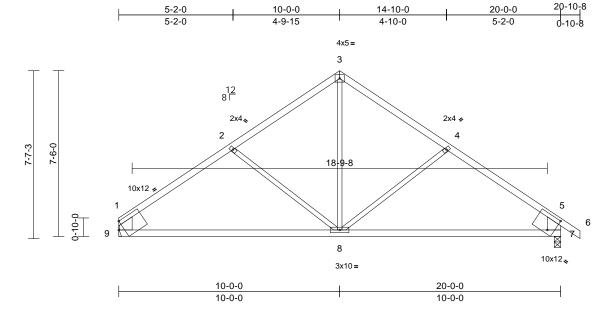
November 17,2021



Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	B3	Common	2	1	Job Reference (optional)	148824364

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:25 ID:2ncXplsxOfbjlB6I7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:52.1

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

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	0.76	Vert(LL)	-0.17	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.36	7-8	>651	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	7-8	>999	240	Weight: 71 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 9-1,7-5:2x8 SP DSS WEBS

BRACING

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

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

bracing.

REACTIONS (lb/size) 7=958/0-3-8, 9=870/ Mechanical

Max Horiz 9=-210 (LC 4)

Max Uplift 7=-125 (LC 9), 9=-97 (LC 8) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1087/162, 2-3=-830/154, 3-4=-829/154,

4-5=-1080/160, 5-6=0/46, 1-9=-761/145, 5-7=-853/174

BOT CHORD 8-9=-146/833, 7-8=-40/784

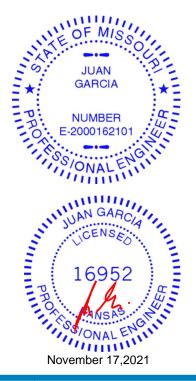
3-8=-46/479, 4-8=-256/212, 2-8=-272/215 **WEBS**

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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 9 and 125 lb uplift at joint 7.

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

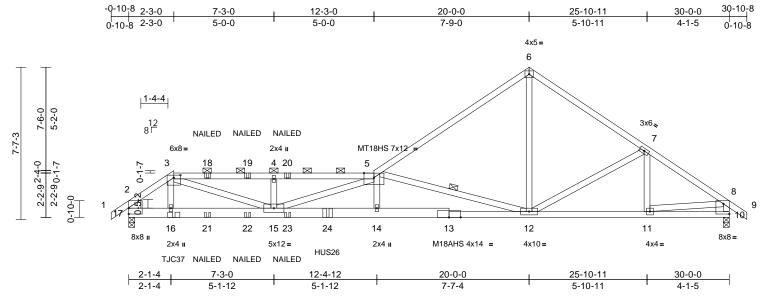




Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	B4	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	148824365

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Page: 1



Scale = 1:57.6

Plate Offsets (X, Y): [3	:0-4-0,0-1-9], [10:Edge,0-6-2]
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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
-	\ '	-						(/			_	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.39	14-15	>912	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.69	14-15	>514	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.08	10	n/a	n/a	M18AHS	142/136
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.30	14-15	>999	240	Weight: 273 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x6 SPF 1650F 1.4E *Except* 13-10:2x4

SPF 2100F 1.8E

WEBS 2x4 SPF No.2 *Except* 17-2:2x8 SP DSS

BRACING

Structural wood sheathing directly applied, TOP CHORD

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

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

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

WEBS 1 Row at midpt 5-12

REACTIONS (lb/size) 10=1821/0-3-8, 17=2612/0-3-8

> 17=213 (LC 7) Max Horiz

Max Uplift 10=-233 (LC 9), 17=-513 (LC 8) (lb) - Maximum Compression/Maximum

FORCES

Tension TOP CHORD

1-2=0/46, 2-3=-2909/542, 3-4=-7688/1374, 4-5=-7688/1373, 5-6=-2338/345,

6-7=-2294/403, 7-8=-2418/317, 8-9=0/40,

2-17=-1814/351, 8-10=-1774/250

16-17=-508/2345, 15-16=-522/2391,

14-15=-1483/8813, 12-14=-1482/8862,

11-12=-199/1951. 10-11=-26/195

3-16=-592/175, 3-15=-950/5657,

4-15=-722/331, 5-15=-1205/236,

5-14=-11/640, 5-12=-7264/1328,

6-12=-235/1934, 7-12=-235/222,

7-11=-179/87, 8-11=-175/1776

NOTES

WFRS

BOT CHORD

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

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc, 2x4 - 1 row at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for 3) 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.
- All plates are MT20 plates unless otherwise indicated. This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 513 lb uplift at joint 17 and 233 lb uplift at joint 10.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie TJC37 (4 nail, 30-90) or equivalent at 2-3-0 from the left end to connect truss(es) to front face of bottom chord, skewed 26.6 deg.to the left, sloping 0.0 deg. down.
- 13) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent at 9-11-4 from the left end to connect truss(es) to front face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft) OF M/S

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6= 8-9=-70, 10**-1**7**≠-2**0. Concentrated Loads (lb)

oncentrated Loads (lb) Vert: 16= 192 (F), 18=-108 (F), 19-108 (F), 20= (F), 21=-33 (F), 22=-33 (F), 23=-33 (F), 24=-100





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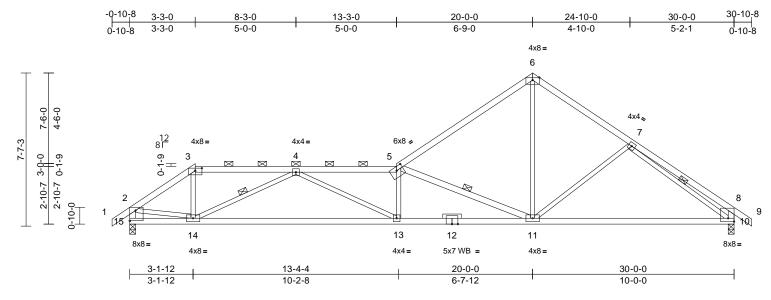




Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	B5	Roof Special	1	1	Job Reference (optional)	148824366

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:26 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.26	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.60	13-14	>596	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.19	13	>999	240	Weight: 116 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 11-5,15-2,10-8:2x4 WEBS

SPF No 2

OTHERS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

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

(2-7-10 max.): 3-5.

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

bracing.

WEBS 1 Row at midpt 4-14, 5-11, 7-10

REACTIONS (lb/size) 10=1408/0-3-8, 15=1408/0-3-8

Max Horiz 15=-213 (LC 6) Max Uplift 10=-141 (LC 9), 15=-229 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/40, 2-3=-1822/239, 3-4=-1447/231,

4-5=-3800/530, 5-6=-1650/216, 6-7=-1606/268, 7-8=-634/117, 8-9=0/40, 2-15=-1424/210, 8-10=-553/146

BOT CHORD 14-15=-207/239, 13-14=-539/3045,

11-13=-536/3789, 10-11=-127/1399

WEBS 3-14=-16/716, 4-14=-1792/333,

4-13=-29/844, 5-13=-228/112, 5-11=-2713/493, 6-11=-115/1267,

7-11=-246/210, 2-14=-79/1391,

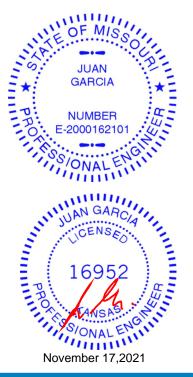
7-10=-1222/186

NOTES

- 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) 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 229 lb uplift at joint 15 and 141 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

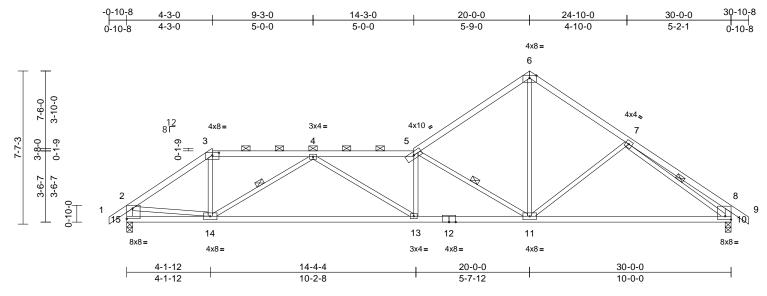




Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	B6	Roof Special	1	1	Job Reference (optional)	148824367

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Page: 1



Scale = 1:57.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.30	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.67	13-14	>533	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.15	13-14	>999	240	Weight: 115 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

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

2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 15-2,10-8:2x4 SPF

No.2

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

3-3-10 oc purlins, except end verticals, and

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

bracing.

1 Row at midpt 4-14, 5-11, 7-10

WEBS REACTIONS

(lb/size) 10=1408/0-3-8, 15=1408/0-3-8

Max Horiz 15=-213 (LC 6)

Max Uplift 10=-141 (LC 9), 15=-229 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/40, 2-3=-1861/259, 3-4=-1463/256, 4-5=-3061/433, 5-6=-1623/226, 6-7=-1603/268, 7-8=-632/114, 8-9=0/40,

2-15=-1400/227, 8-10=-550/143

BOT CHORD 14-15=-220/320, 13-14=-449/2598,

11-13=-414/3054, 10-11=-128/1400

WEBS 3-14=-16/704, 4-14=-1347/249, 4-13=-20/546, 5-13=-142/104,

5-11=-2074/391, 6-11=-141/1303,

7-11=-248/212, 2-14=-37/1308,

7-10=-1224/194

NOTES

- 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) 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 229 lb uplift at joint 15 and 141 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



November 17,2021

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

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

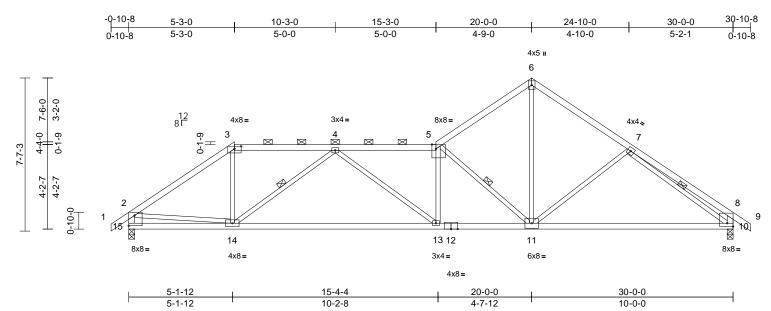
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	B7	Roof Special	1	1	Job Reference (optional)	148824368

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:27 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.29	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.63	13-14	>568	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.11	13-14	>999	240	Weight: 117 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

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

2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 15-2,10-8:2x4 SPF

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-11-12 oc purlins, except end verticals, and

2-0-0 oc purlins (3-4-3 max.): 3-5. **BOT CHORD** Rigid ceiling directly applied or 9-3-0 oc

1 Row at midpt 4-14, 5-11, 7-10

WEBS REACTIONS

(lb/size) 10=1408/0-3-8, 15=1408/0-3-8

Max Horiz 15=-213 (LC 6)

Max Uplift 10=-141 (LC 9), 15=-229 (LC 8)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/40, 2-3=-1869/269, 3-4=-1454/273,

4-5=-2547/370, 5-6=-1600/236,

6-7=-1602/268, 7-8=-629/113, 8-9=0/40,

2-15=-1381/241, 8-10=-547/142

14-15=-253/436, 13-14=-380/2279,

BOT CHORD 11-13=-324/2543, 10-11=-130/1401

> 3-14=-7/669, 4-14=-1041/190, 4-13=-16/351, 5-13=-67/97, 5-11=-1683/329,

6-11=-166/1340, 7-11=-250/214,

2-14=-56/1174, 7-10=-1228/198

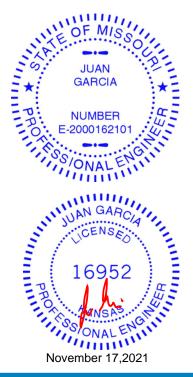
NOTES

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
- 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 229 lb uplift at joint 15 and 141 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

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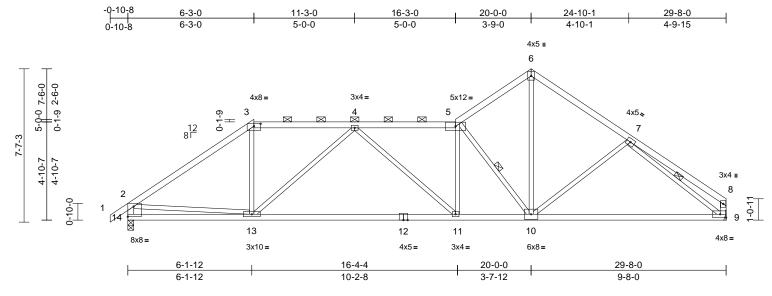
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	B8	Roof Special	1	1	Job Reference (optional)	148824369

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:28 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.1

Plate Offsets (X, Y):	[3:0-4-0,0-1-9],	[14:Edge,0-6-2]
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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	0.51	Vert(LL)	-0.28	11-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.60	11-13	>584	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.09	11-13	>999	240	Weight: 118 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 14-2,9-8:2x4 SPF WEBS

BRACING TOP CHORD

Structural wood sheathing directly applied or 3-8-6 oc purlins, except end verticals, and

2-0-0 oc purlins (3-8-7 max.): 3-5.

Rigid ceiling directly applied or 9-10-8 oc

BOT CHORD

bracing. WEBS 1 Row at midpt

5-10, 7-9 9=1321/ Mechanical, REACTIONS (lb/size)

14=1395/0-3-8

Max Horiz 14=210 (LC 7)

Max Uplift 9=-121 (LC 8), 14=-228 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/40, 2-3=-1840/272, 3-4=-1414/285, 4-5=-2112/322, 5-6=-1532/243,

6-7=-1556/264, 7-8=-370/51, 2-14=-1353/250, 8-9=-309/73

BOT CHORD 13-14=-326/563, 11-13=-332/1998,

10-11=-262/2110, 9-10=-133/1318

3-13=0/608, 4-13=-787/169, 4-11=-12/220, WEBS

5-11=-9/136. 2-13=-95/995. 6-10=-187/1327. 5-10=-1431/291, 7-9=-1416/229,

7-10=-209/207

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
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 228 lb uplift at joint 14 and 121 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

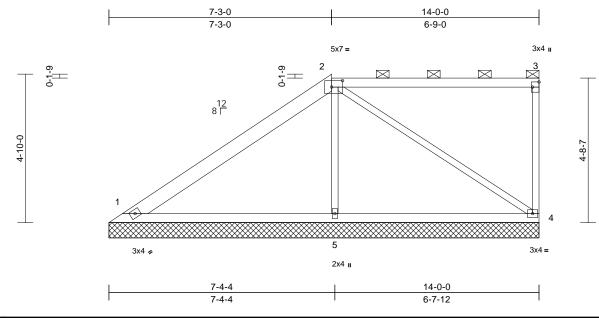




Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	B9	Half Hip	1	1	Job Reference (optional)	148824370

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:29 ID:2ncXplsxOfbjlB6I7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:37.5

Plate Offsets (X, Y): [2:0-4-4,0-2-8], [3: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	0.65	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 51 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SPF No.2 *Except* 2-3:2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 WEBS

BRACING

Structural wood sheathing directly applied or TOP CHORD

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

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

bracing.

1=322/14-0-0, 4=314/14-0-0, REACTIONS (lb/size)

5=558/14-0-0 Max Horiz 1=176 (LC 5)

Max Uplift 1=-56 (LC 8), 4=-81 (LC 5), 5=-61

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-229/92, 2-3=-63/53, 3-4=-217/95

BOT CHORD 1-5=-81/105, 4-5=-77/96

WEBS 2-5=-394/157, 2-4=-92/57

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
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- 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 56 lb uplift at joint 1, 81 lb uplift at joint 4 and 61 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.

LOAD CASE(S) Standard

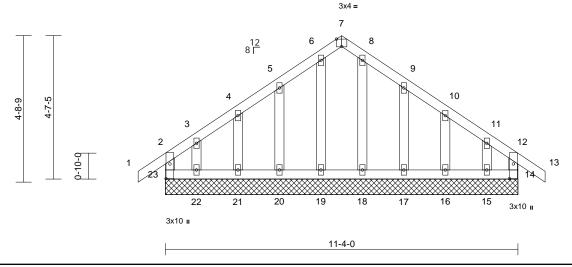




Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	C1	GABLE	1	1	Job Reference (optional)	148824371

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:29 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:37

Plate Offsets (X, Y): [7:0-2-0,Edge], [14:0-5-10,0-1-8], [23:0-5-10,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	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	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 53 lb	FT = 10%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (lb/size)

14=138/11-4-0, 15=60/11-4-0, 16=128/11-4-0, 17=117/11-4-0, 18=125/11-4-0, 19=125/11-4-0, 20=117/11-4-0, 21=128/11-4-0 22=60/11-4-0, 23=138/11-4-0

Max Horiz 23=137 (LC 7)

Max Uplift 14=-40 (LC 5), 15=-84 (LC 9), 16=-40 (LC 9), 17=-63 (LC 9),

20=-62 (LC 8), 21=-39 (LC 8), 22=-91 (LC 8), 23=-64 (LC 4)

14=141 (LC 22), 15=103 (LC 16), Max Grav 16=128 (LC 1), 17=126 (LC 16), 18=125 (LC 1), 19=126 (LC 15),

20=124 (LC 15), 21=128 (LC 1), 22=118 (LC 6), 23=158 (LC 16)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-23=-128/48, 1-2=0/40, 2-3=-89/80,

3-4=-59/66, 4-5=-48/67, 5-6=-38/98, 6-7=-29/80, 7-8=-25/76, 8-9=-22/88, 9-10=-32/58, 10-11=-37/50, 11-12=-66/54,

12-13=0/40. 12-14=-128/30

BOT CHORD 22-23=-64/72, 21-22=-64/72, 20-21=-64/72,

19-20=-64/72, 18-19=-64/72, 17-18=-64/72, 16-17=-64/72, 15-16=-64/72, 14-15=-64/72

WEBS 3-22=-74/72, 4-21=-102/61, 5-20=-97/77, 6-19=-99/5, 8-18=-98/0, 9-17=-99/78, 10-16=-102/61, 11-15=-68/69

LOAD CASE(S) Standard

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.
- 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 64 lb uplift at joint 23, 40 lb uplift at joint 14, 91 lb uplift at joint 22, 39 lb uplift at joint 21, 62 lb uplift at joint 20, 63 lb uplift at joint 17, 40 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.

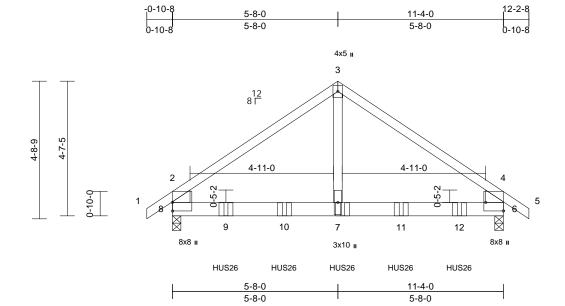


Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	C2	Common Girder	1	2	Job Reference (optional)	148824372

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:30 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:39.5

Plate Offsets (X, Y): [6:Edge,0-7-4]

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	0.55	Vert(LL)	-0.06	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.10	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.03	7-8	>999	240	Weight: 104 lb	FT = 10%

LUMBER

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

2x8 SP 2400F 2.0E *Except* 7-3:2x4 SPF

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or 5-8-9 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 6=4083/0-3-8 8=3913/0-3-8

Max Horiz 8=-138 (LC 6)

Max Uplift 6=-148 (LC 9), 8=-145 (LC 8)

Max Grav 6=4385 (LC 16), 8=4197 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/46, 2-3=-4025/158, 3-4=-4025/158, 4-5=0/46, 2-8=-2477/174, 4-6=-2477/174

BOT CHORD 7-8=-48/3279, 6-7=-48/3279

WEBS 3-7=-41/4131

NOTES

2-ply truss to be connected together with 10d

(0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 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 145 lb uplift at joint 8 and 148 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.
- Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-10-0 from the left end to 9-10-0 to connect truss(es) to back face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

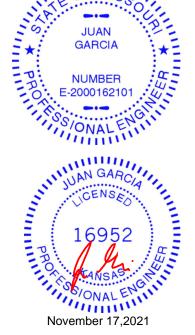
Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 6-8=-20

Concentrated Loads (lb)

Vert: 7=-1373 (B), 9=-1373 (B), 10=-1373 (B),

11=-1373 (B), 12=-1373 (B)



Page: 1

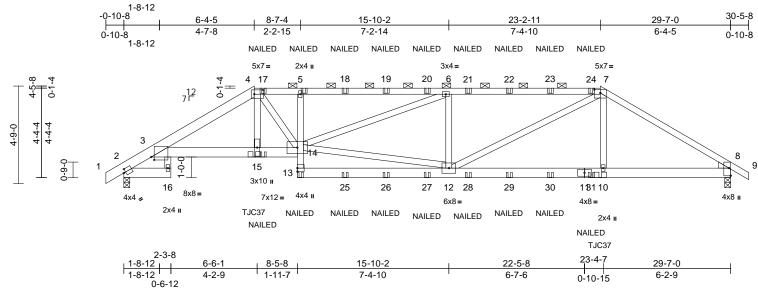




Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	D1	HIP GIRDER	1	2	Job Reference (optional)	148824373

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:30 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:56.2

Plate Offsets (X, Y): [2:0-1-3,0-2-0], [3:0-1-11,0-1-11], [4:0-5-4,0-2-8], [7:0-3-8,0-2-0], [8:Edge,0-0-15]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.15	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.27	12-13	>999	240	1	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.18	8	n/a	n/a	1	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.13	5	>999	240	Weight: 299 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP DSS *Except* 4-7:2x4 SPF 2100F

1.8E, 7-9:2x4 SPF No.2

2x6 SPF No.2 *Except* 5-13:2x4 SPF No.2 BOT CHORD WEBS 2x4 SPF No.2

WEDGE Right: 2x4 SPF No.2

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

5-11-9 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 4-7. Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 2-16.

REACTIONS (lb/size) 2=2363/0-3-8, 8=2366/0-3-8

Max Horiz 2=112 (LC 7)

Max Uplift 2=-477 (LC 8), 8=-446 (LC 9)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-1493/334, 3-4=-4908/1069,

4-5=-4952/1087, 5-6=-4958/1095,

6-7=-4701/906, 7-8=-3918/730, 8-9=0/11 2-16=-142/20, 3-15=-990/4315,

BOT CHORD 14-15=-1002/4368, 13-14=0/208,

5-14=-535/269, 12-13=-118/808,

10-12=-547/3168, 8-10=-549/3192

3-16=-30/216, 4-15=-254/1086,

4-14=-281/1071, 12-14=-798/3927,

6-14=-214/337, 6-12=-1105/496,

7-12=-418/1831, 7-10=-57/669

NOTES

WEBS

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

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for 3) 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 477 lb uplift at joint 2 and 446 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie TJC37 (6 nail, 30-90) or equivalent at 6-4-5 from the left end to connect truss(es) to front face of bottom chord, skewed 48.8 dea.to the left, sloping 0.0 deg. down.
- 12) Use Simpson Strong-Tie TJC37 (6 nail 90-150) or equivalent at 23-2-11 from the left end to connect truss (es) to front face of bottom chord, skewed 48.8 deg.to the right, sloping 0.0 deg. down.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft) OF M/S Vert: 1-4=-70, 4-7=-70, 7-9=-70, 2-16=-20, 3-14=-20, 8-13=-20 Concentrated Loads (lb) Vert: 14=-45 (F), 5=-93 (F), 15=-395 (F), 10=-357 (F), 17=-73 (F), 18=-93 (F), 19=-93 (F), 20=-93 (F)

(1), 13–33 (7), 22–93 (7), 23–93 (7), 24–93 (7), 25–45 (7), 25–45 (7), 28–45 (7), 27–45 (7), 28–45 (7), 29–45 (7), 31–45

SO/ONAL



November 17,2021



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

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

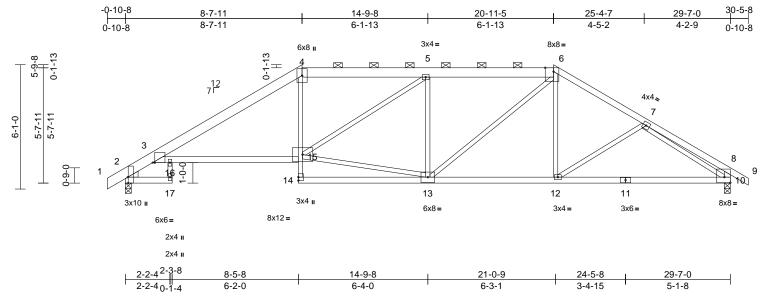
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	D2	Hip	1	1	Job Reference (optional)	148824374

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:31 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:56.3

Plate Offsets (X, Y): [2:0-3-8,Edge], [3:0-1-4,Edge], [6:0-4-15,Edge], [10:Edge,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	0.64	Vert(LL)	-0.27	15-16	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.53	15-16	>664	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.30	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.21	15-16	>999	240	Weight: 135 lb	FT = 10%

LUMBER

BOT CHORD

2x6 SP DSS *Except* 4-6:2x6 SPF No.2, TOP CHORD

6-9:2x4 SPF No.2

2x4 SPF No.2 *Except* 3-15:2x4 SPF 2100F

1.8E, 4-14:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 10-8:2x4 SPF No.2

WEDGE Left: 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-5 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-1 max.): 4-6.

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

bracing.

REACTIONS (lb/size) 2=1390/0-3-8, 10=1390/0-3-8

Max Horiz 2=156 (LC 7)

Max Uplift 2=-131 (LC 8), 10=-131 (LC 9)

FORCES

TOP CHORD

(lb) - Maximum Compression/Maximum Tension

1-2=0/12, 2-3=-876/97, 3-4=-2344/196,

4-5=-1981/207, 5-6=-1875/177,

6-7=-1808/142, 7-8=-552/61, 8-9=0/36,

8-10=-468/99

BOT CHORD 2-17=0/0, 3-16=-227/2017, 15-16=-228/2021,

14-15=0/114, 4-15=-28/563, 13-14=-12/22,

12-13=-51/1508. 10-12=-95/1579 16-17=-4/85, 13-15=-191/1891,

5-15=-83/244, 5-13=-579/232,

6-13=-184/582, 6-12=0/295, 7-12=-156/174,

7-10=-1441/135

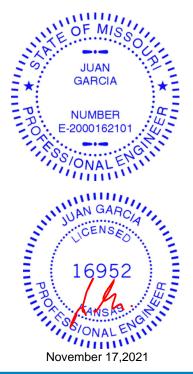
NOTES

WEBS

- 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) 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 131 lb uplift at joint 2 and 131 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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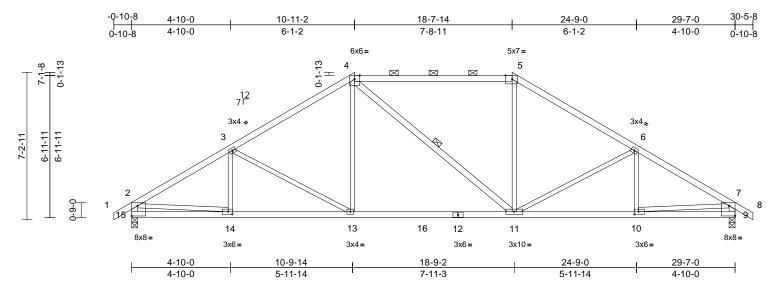
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	D3	Hip	1	1	Job Reference (optional)	148824375

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:32 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:56.5

Plate Offsets (X, Y): [5:0-3-15,Edge], [9:Edge,0-6-0], [10:0-2-8,0-1-8], [14:0-2-8,0-1-8], [15:Edge,0-6-0]

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	0.69	Vert(LL)	-0.16	11-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.29	11-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	13-14	>999	240	Weight: 120 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 4-5:2x4 SPF 2100F TOP CHORD

1.8E

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 11-4,15-2,9-7:2x4 SPF No 2

BRACING

TOP CHORD

Structural wood sheathing directly applied or

3-9-13 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-14 max.): 4-5.

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

bracing.

WEBS 1 Row at midpt 4-11

REACTIONS (lb/size) 9=1390/0-3-8, 15=1390/0-3-8

Max Horiz 15=198 (LC 7)

Max Uplift 9=-153 (LC 9), 15=-153 (LC 8) Max Grav 9=1435 (LC 2), 15=1443 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/36, 2-3=-2064/199, 3-4=-1775/172,

4-5=-1446/200, 5-6=-1759/172,

6-7=-2052/199, 7-8=0/36, 2-15=-1353/177,

7-9=-1346/177

BOT CHORD 14-15=-174/476, 13-14=-201/1799,

11-13=-83/1459, 10-11=-99/1713,

9-10=-43/343

WEBS 3-14=-62/100, 3-13=-409/190, 4-13=-3/505,

4-11=-161/162, 5-11=0/467, 6-11=-412/190,

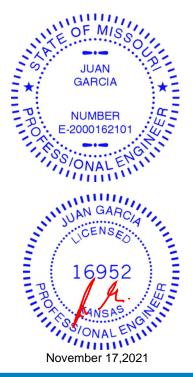
6-10=-63/99, 2-14=-64/1387, 7-10=-56/1378

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
- 3) Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 15 and 153 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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



Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	D4	Hip	1	1	Job Reference (optional)	148824376

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:32 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

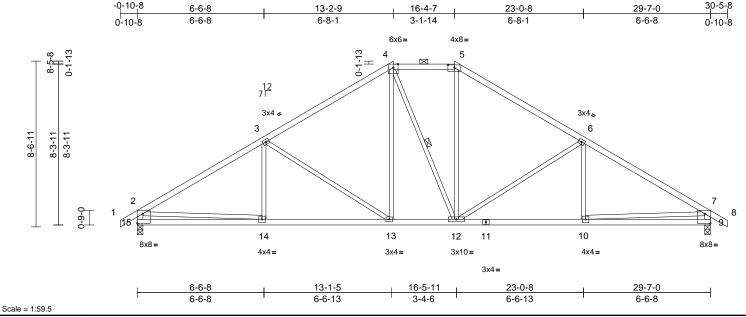


Plate Offsets (X, Y): [5:0-4-0,0-1-11], [9:Edge,0-6-0], [15:Edge,0-6-0]

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	0.58	Vert(LL)	-0.08	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.18	13-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	13-14	>999	240	Weight: 124 lb	FT = 10%

LUMBER

WEBS

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

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

BRACING TOP CHORD

Structural wood sheathing directly applied or 3-7-5 oc purlins, except end verticals, and

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

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

bracing.

WEBS 1 Row at midpt

9=1390/0-3-8, 15=1390/0-3-8 REACTIONS (lb/size)

Max Horiz 15=233 (LC 7)

Max Uplift 9=-171 (LC 9), 15=-171 (LC 8)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/36, 2-3=-1985/221, 3-4=-1512/203,

4-5=-1196/229, 5-6=-1513/203,

6-7=-1985/221, 7-8=0/36, 2-15=-1325/205,

7-9=-1324/205

BOT CHORD 14-15=-250/637, 13-14=-216/1620,

12-13=-32/1195, 10-12=-90/1620,

9-10=-135/506

WFRS 3-14=0/217, 3-13=-544/218, 4-13=-62/389,

4-12=-178/183, 5-12=-52/379,

6-12=-541/218, 6-10=0/216, 2-14=0/1120,

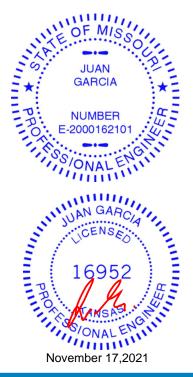
7-10=0/1118

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
- 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 171 lb uplift at ioint 15 and 171 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard







J	lob	Truss	Truss Type	Qty	Ply	Lot 109 W0	
٧	V0109	D5	Roof Special	1	1	Job Reference (optional)	148824377

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:32 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

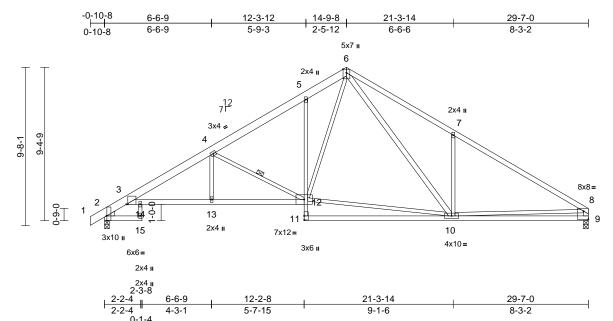


Plate Offsets (X, Y): [2:0-3-8,Edge], [3:0-1-0,Edge], [8:Edge,0-6-0]

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	0.55	Vert(LL)	-0.18	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.41	10-11	>857	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.22	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.14	13-14	>999	240	Weight: 149 lb	FT = 10%

LUMBER

Scale = 1:70.4

2x6 SP DSS *Except* 6-8:2x4 SPF 2100F TOP CHORD

1.8E

BOT CHORD 2x4 SPF No.2 *Except* 3-12:2x4 SPF 2100F

1.8E. 5-11:2x3 SPF No.2

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

9-8:2x4 SPF 2100F 1.8E

Left: 2x4 SPF No.2 WEDGE

BRACING TOP CHORD

WEBS

FORCES

TOP CHORD

Structural wood sheathing directly applied or 4-1-5 oc purlins, except end verticals.

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

bracing.

4-12 1 Row at midpt

REACTIONS (lb/size) 2=1391/0-3-8, 9=1317/0-3-8

Max Horiz 2=246 (LC 5)

Max Uplift 2=-181 (LC 8), 9=-157 (LC 9) (lb) - Maximum Compression/Maximum

Tension

1-2=0/12, 2-3=-875/167, 3-4=-2579/330,

4-5=-1796/251, 5-6=-1667/349, 6-7=-1922/425, 7-8=-1948/221,

8-9=-1241/200

BOT CHORD 2-15=0/0, 3-14=-358/2262, 13-14=-358/2262,

12-13=-358/2263, 11-12=0/155,

5-12=-214/162, 10-11=0/123, 9-10=-162/590

WEBS 14-15=-5/85, 4-12=-980/278,

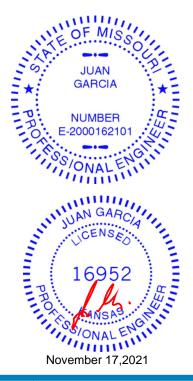
10-12=-59/1047, 6-12=-234/928, 6-10=-297/757, 7-10=-572/348, 8-10=-24/980, 4-13=0/311

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

- The Fabrication Tolerance at joint 8 = 2%, joint 8 = 2%
- This truss has been designed for a 10.0 psf bottom 4) 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 181 lb uplift at joint 2 and 157 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



Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	E1	Roof Special Girder	1	1	Job Reference (optional)	148824378

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:33



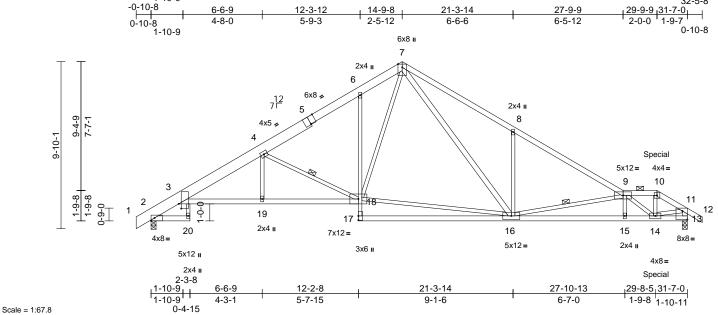


Plate Offsets (X, Y): [3:0-3-5,0-1-12], [5:0-4-0,Edge], [13:Edge,0-6-0]

1-10-9

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	. ,	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.18	16-17	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	вс	0.83	Vert(CT)	-0.43	16-17	>875	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.22	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.12	18-19	>999	240	Weight: 163 lb	FT = 10%

LUMBER

BOT CHORD

2x4 SPF No.2 *Except* 5-7:2x6 SPF No.2, TOP CHORD

1-5:2x8 SP DSS

2x4 SPF No.2 *Except* 6-17:2x3 SPF No.2.

17-13:2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 16-7,13-11:2x4 SPF

No.2

BRACING

WEBS

TOP CHORD

TOP CHORD Structural wood sheathing directly applied,

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

(4-8-5 max.): 9-10.

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

bracing.

4-18. 9-16 1 Row at midpt

REACTIONS (lb/size) 2=1493/0-3-8, 13=1477/0-3-8

Max Horiz 2=252 (LC 7)

Max Uplift 2=-181 (LC 8), 13=-240 (LC 9) (lb) - Maximum Compression/Maximum

FORCES

Tension

1-2=0/17, 2-3=-887/193, 3-4=-2751/339,

4-6=-2005/267, 6-7=-1865/363, 7-8=-2303/469, 8-9=-2295/285,

9-10=-1523/254, 10-11=-1753/274,

11-12=0/36, 11-13=-1426/247 BOT CHORD

2-20=-30/0, 3-19=-367/2481,

18-19=-365/2482, 17-18=0/158 6-18=-217/160, 16-17=0/117,

15-16=-387/3026, 14-15=-382/3028,

13-14=-20/163

WEBS 3-20=0/55, 4-19=0/228, 4-18=-1019/281,

16-18=-65/1218, 7-18=-230/965, 7-16=-332/1019, 8-16=-518/308,

9-16=-1152/285, 9-15=0/147, 9-14=-1917/243, 10-14=-141/815,

11-14=-180/1359

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
- 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 181 lb uplift at joint 2 and 240 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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) 132 lb down and 69 lb up at 29-9-9 on top chord, and 10 lb down and 39 lb up at 29-8-13 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

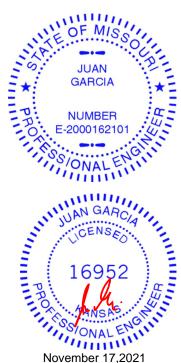
Uniform Loads (lb/ft)

Vert: 1-7=-70, 7-9=-70, 9-10=-70, 10-11=-70,

11-12=-70, 2-20=-20, 3-18=-20, 13-17=-20

Concentrated Loads (lb)

Vert: 14=3 (F)



November 17,2021



Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	E2	Roof Special	1	1	Job Reference (optional)	148824379

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:34 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

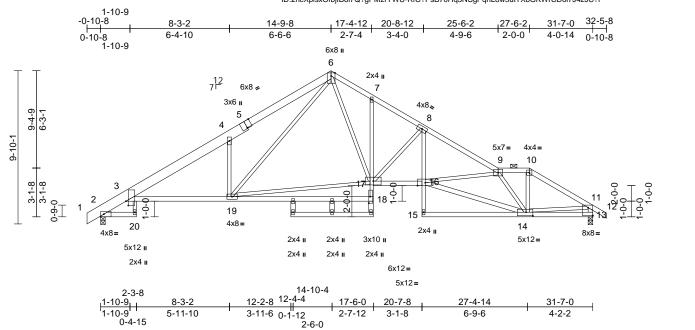


Plate Offsets (X, Y): [3:0-3-5,0-1-12], [5:0-4-0,Edge], [13:Edge,0-6-0], [14:0-5-4,0-2-12], [18:0-5-0,0-1-0]

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	0.64	Vert(LL)	-0.24	18-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.57	18-19	>661	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.33	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	3-19	>999	240	Weight: 174 lb	FT = 10%

LUMBER

Scale = 1:73.9

2x4 SPF No.2 *Except* 5-6:2x6 SPF No.2, TOP CHORD

1-5:2x8 SP DSS

2x4 SPF No.2 *Except* 18-7,8-15:2x3 SPF BOT CHORD No 2

2x3 SPF No.2 *Except*

WEBS 14-16,13-11,21-23,22-18,24-25:2x4 SPF

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-5-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-10 max.): 9-10.

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

bracing, Except: 6-0-0 oc bracing: 2-20.

REACTIONS (lb/size) 2=1493/0-3-8, 13=1480/0-3-8

Max Horiz 2=252 (LC 7)

Max Uplift 2=-178 (LC 8), 13=-203 (LC 9) (lb) - Maximum Compression/Maximum

FORCES

Tension TOP CHORD

1-2=0/17, 2-3=-886/191, 3-4=-2524/283,

4-6=-2689/508, 6-7=-2263/336, 7-8=-2342/271 8-9=-3378/341

9-10=-1866/260, 10-11=-2103/256 11-12=0/36, 11-13=-1430/218

BOT CHORD 2-20=-30/0, 3-19=-287/2216, 18-19=0/161,

17-18=0/161, 7-17=-137/98,

16-17=-120/2877, 15-16=0/118,

8-16=-68/1179, 14-15=0/50, 13-14=-87/343

3-20=0/55, 4-19=-880/395, 6-19=-348/1148, 6-17=-209/1339, 8-17=-1347/238, 14-16=-301/3023, 9-16=-133/162,

9-14=-2152/268, 10-14=-51/855, 11-14=-58/1407, 17-19=-81/1358

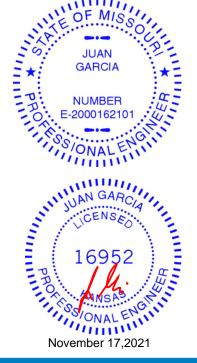
NOTES

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
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 2 and 203 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10 2 and referenced standard ANSI/TPI 1
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	E3	Roof Special	1	1	Job Reference (optional)	148824380

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:34 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

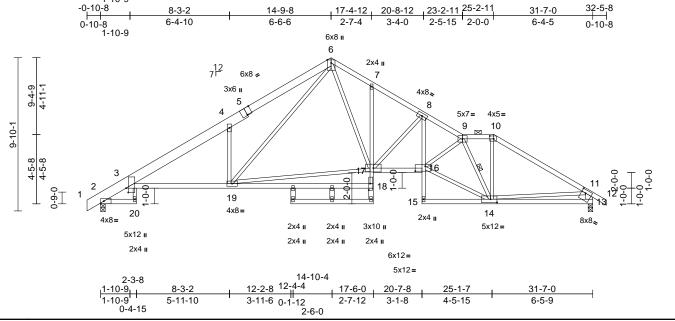


Plate Offsets (X, Y): [3:0-3-5,0-1-12], [5:0-4-0,Edge], [10:0-3-0,0-2-4], [13:0-3-4,0-2-8], [14:0-5-0,0-2-8], [16:0-7-12,0-3-12], [18:0-5-0,0-1-0]

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	0.58	Vert(LL)	-0.24	18-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.57	18-19	>661	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.34	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	3-19	>999	240	Weight: 173 lb	FT = 10%

LUMBER

Scale = 1:73.9

2x4 SPF No.2 *Except* 5-6:2x6 SPF No.2, TOP CHORD

1-5:2x8 SP DSS

2x4 SPF No.2 *Except* 18-7,8-15:2x3 SPF BOT CHORD No 2

2x3 SPF No.2 *Except* 13-11:2x6 SPF No.2,

WEBS 21-23,22-18,24-25:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-0-1 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-1 max.): 9-10.

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

bracing, Except: 6-0-0 oc bracing: 2-20.

1 Row at midpt 9-14

WEBS REACTIONS (lb/size)

2=1489/0-3-8, 13=1483/0-3-8 Max Horiz 2=253 (LC 7)

Max Uplift 2=-177 (LC 8), 13=-204 (LC 9)

(lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD

1-2=0/17, 2-3=-884/190, 3-4=-2516/282,

4-6=-2681/507, 6-7=-2265/339, 7-8=-2320/268 8-9=-3343/345

9-10=-1734/273, 10-11=-2083/260,

11-12=0/39, 11-13=-1413/241

BOT CHORD 2-20=-30/0, 3-19=-285/2208, 18-19=0/161,

17-18=0/161, 7-17=-168/117, 16-17=-113/2893, 15-16=0/63,

8-16=-103/1290, 14-15=-4/40,

13-14=-192/581

WEBS 3-20=0/55, 4-19=-880/395, 6-19=-348/1149,

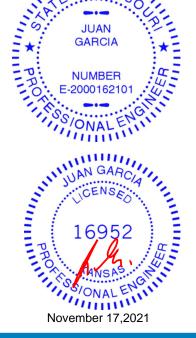
6-17=-213/1335, 8-17=-1378/220, 14-16=-189/2831, 9-16=-6/418, 9-14=-2136/154, 10-14=-13/671, 11-14=0/1112, 17-19=-80/1349

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
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 2 and 204 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10 2 and referenced standard ANSI/TPI 1
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





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

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

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



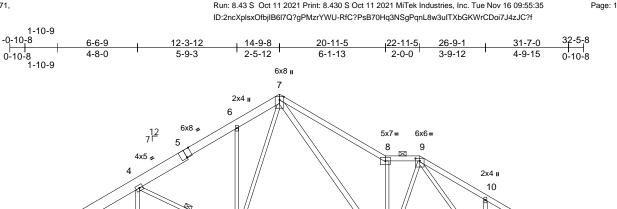
Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	E4	Roof Special	1	1	Job Reference (optional)	148824381

9-10-1

5-9-8 5-9-8 Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:35

15

4x10=



3-8 1-10-9 12-2-8 21-0-9 26-9-1 31-7-0 1-10-9 4-3-1 5-7-15 8-10-1 5-8-8 4-9-15 0-4-15

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

19

5x12 II

4x8=

18

2x4 ı

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.20	15-16	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.46	15-16	>814	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.21	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.12	17-18	>999	240	Weight: 168 lb	FT = 10%

16

4x8 II

7x12=

LUMBER

Scale = 1:66.9

2x4 SPF No.2 *Except* 5-7:2x6 SPF No.2, TOP CHORD

1-5:2x8 SP DSS

BOT CHORD 2x4 SPF No.2 *Except* 6-16:2x3 SPF No.2 **WEBS**

2x3 SPF No.2 *Except* 15-7,13-11:2x4 SPF No.2

BRACING

TOP CHORD

Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-9 max.): 8-9.

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

bracing.

WEBS

1 Row at midpt 4-17

REACTIONS (lb/size) 2=1493/0-3-8, 13=1480/0-3-8

Max Horiz 2=252 (LC 7)

Max Uplift 2=-178 (LC 8), 13=-203 (LC 9)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/17, 2-3=-886/191, 3-4=-2752/332, 4-6=-2005/260, 6-7=-1860/354,

7-8=-2198/424, 8-9=-1821/282, 9-10=-2087/393, 10-11=-2107/271,

11-12=0/36, 11-13=-1421/228

2-19=-30/0, 3-18=-361/2482, BOT CHORD

17-18=-359/2482, 16-17=0/159,

6-17=-211/155, 15-16=0/121,

14-15=-62/1591, 13-14=-91/401 3-19=0/55, 4-18=0/228, 4-17=-1019/281,

15-17=-62/1222, 7-17=-226/956, 7-15=-285/914, 8-15=-1334/339,

9-15=-59/669, 9-14=-160/313, 10-14=-304/196, 11-14=-63/1346

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
- 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 178 lb uplift at joint 2 and 203 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



11

8x8=

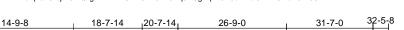
14

3x10=

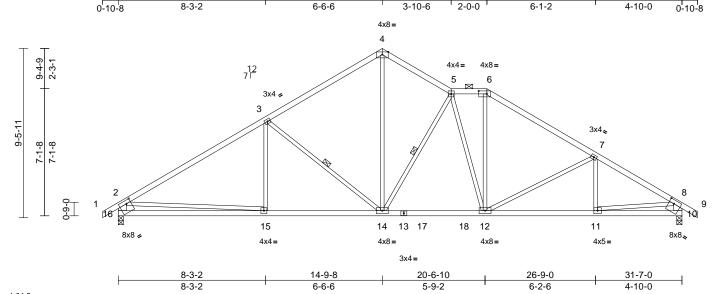


Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	E5	Roof Special	1	1	Job Reference (optional)	148824382

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:35 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Page: 1



Scale = 1:64.5 Plate Offsets (X, Y): [6:0-5-8,0-2-0], [10:0-3-4,0-2-8], [16:0-3-0,0-2-4]

-0-10-8

8-3-2

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	0.77	Vert(LL)	-0.13	12-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.25	15-16	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	12	>999	240	Weight: 134 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 16-2,10-8:2x6 SPF WEBS

BRACING TOP CHORD

Structural wood sheathing directly applied or 2-11-10 oc purlins, except end verticals, and

2-0-0 oc purlins (4-6-13 max.): 5-6.

BOT CHORD Rigid ceiling directly applied or 9-4-4 oc

bracing.

WEBS 1 Row at midpt 3-14, 5-14

REACTIONS (lb/size) 10=1478/0-3-8, 16=1478/0-3-8

16=260 (LC 7) Max Horiz

Max Uplift 10=-204 (LC 9), 16=-186 (LC 8)

Max Grav 10=1569 (LC 16), 16=1585 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/39, 2-3=-2172/234, 3-4=-1582/269,

4-5=-1532/261, 5-6=-1553/278, 6-7=-1873/263, 7-8=-2204/275, 8-9=0/39,

2-16=-1450/233, 8-10=-1485/224 BOT CHORD 15-16=-387/1038, 14-15=-213/1925,

12-14=-53/1673, 11-12=-164/1819,

10-11=-46/313

WEBS 3-15=0/268, 3-14=-706/238, 4-14=-158/1183, 5-14=-742/224, 5-12=-307/94, 6-12=-35/654,

7-12=-407/175, 7-11=-86/99, 2-15=0/1028,

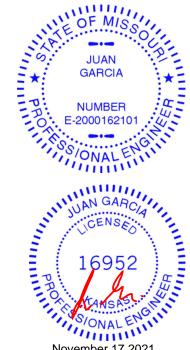
8-11=-118/1523

NOTES

- 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) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint 16 and 204 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



November 17,2021



Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	E6	Roof Special	1	1	Job Reference (optional)	148824383

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:36 ID:2ncXplsxOfbjlB6I7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

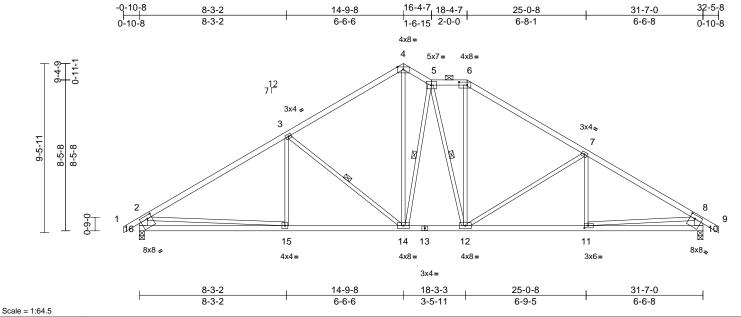


Plate Offsets (X, Y): [6:0-5-8,0-2-0], [10:0-3-4,0-2-8], [11:0-2-8,0-1-8], [16:0-3-0,0-2-4]

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	0.78	Vert(LL)	-0.11	15-16	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.24	15-16	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	11-12	>999	240	Weight: 140 lb	FT = 10%

LUMBER

WEBS

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

2x3 SPF No.2 *Except* 16-2,10-8:2x6 SPF

BRACING TOP CHORD

BOT CHORD

TOP CHORD

Structural wood sheathing directly applied or 2-11-8 oc purlins, except end verticals, and

2-0-0 oc purlins (4-10-6 max.): 5-6.

Rigid ceiling directly applied or 9-4-3 oc bracing.

WEBS 1 Row at midpt 3-14, 5-14, 5-12

REACTIONS (lb/size) 10=1478/0-3-8, 16=1478/0-3-8

Max Horiz 16=-260 (LC 6)

Max Uplift 10=-204 (LC 9), 16=-186 (LC 8) (lb) - Maximum Compression/Maximum

FORCES

Tension

1-2=0/39, 2-3=-2068/233, 3-4=-1532/270, 4-5=-1360/264, 5-6=-1318/279,

6-7=-1649/259, 7-8=-2105/273, 8-9=0/39,

2-16=-1400/233, 8-10=-1414/237

BOT CHORD 15-16=-389/936, 14-15=-213/1660,

12-14=-33/1321, 11-12=-134/1723,

10-11=-134/482

WFRS 3-15=0/275, 3-14=-614/235, 4-14=-181/1021,

5-14=-627/204, 5-12=-162/145, 6-12=-32/381, 7-12=-526/212, 7-11=0/203,

2-15=0/891, 8-11=-13/1246

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
- 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 186 lb uplift at joint 16 and 204 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



November 17,2021



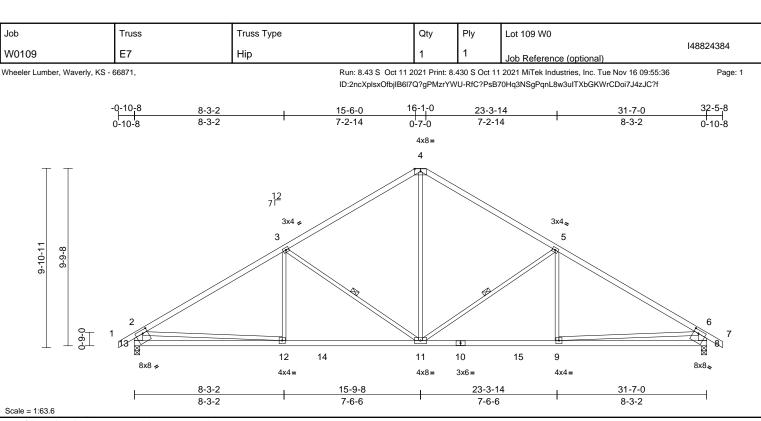


Plate Offsets (X, Y): [8:0-3-4,0-2-4], [13:0-3-4,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.14	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.24	9-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	11-12	>999	240	Weight: 124 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 13-2,8-6:2x6 SPF WEBS

BRACING TOP CHORD

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

BOT CHORD Rigid ceiling directly applied or 9-5-14 oc

bracing.

WEBS 1 Row at midpt 5-11, 3-11

REACTIONS (lb/size) 8=1478/0-3-8, 13=1478/0-3-8

Max Horiz 13=-276 (LC 6)

Max Uplift 8=-192 (LC 9), 13=-192 (LC 8)

Max Grav 8=1608 (LC 16), 13=1608 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

1-2=0/39, 2-3=-2226/247, 3-4=-1574/262, TOP CHORD

4-5=-1574/262, 5-6=-2226/247, 6-7=0/39,

2-13=-1477/238, 6-8=-1477/237

12-13=-377/1006, 11-12=-238/1988,

9-11=-86/1795, 8-9=-237/816 WFBS 4-11=-94/1046, 5-11=-798/261, 5-9=0/312,

3-11=-799/262, 3-12=0/312, 2-12=0/1111,

6-9=0/1128

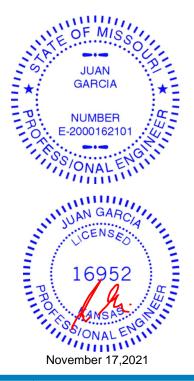
NOTES

BOT CHORD

- 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) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

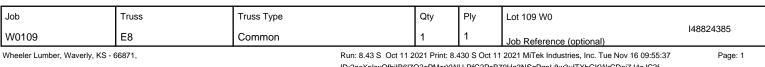
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 13 and 192 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.

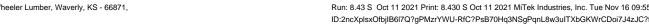
LOAD CASE(S) Standard











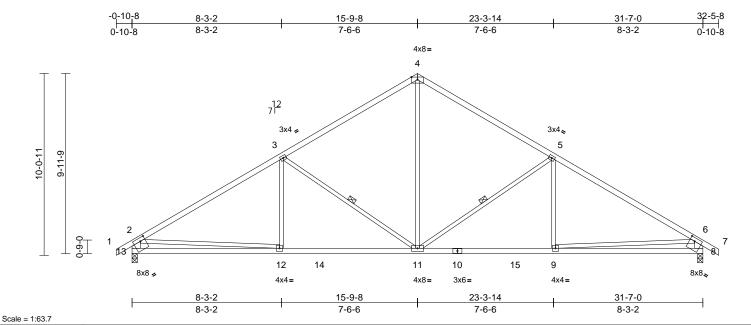


Plate Offsets (X, Y): [8:0-3-4,0-2-4], [13:0-3-4,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.14	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.24	9-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	11-12	>999	240	Weight: 125 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 13-2,8-6:2x6 SPF

BRACING

WEBS

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

BOT CHORD Rigid ceiling directly applied or 9-5-14 oc

bracing.

WEBS 1 Row at midpt 5-11, 3-11

REACTIONS (lb/size) 8=1478/0-3-8, 13=1478/0-3-8

Max Horiz 13=-276 (LC 6)

Max Uplift 8=-192 (LC 9), 13=-192 (LC 8)

Max Grav 8=1608 (LC 16), 13=1608 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=0/39, 2-3=-2226/247, 3-4=-1574/262,

4-5=-1574/262, 5-6=-2226/247, 6-7=0/39,

2-13=-1477/238, 6-8=-1477/237 12-13=-377/1006, 11-12=-238/1988,

BOT CHORD 9-11=-86/1795, 8-9=-237/816

4-11=-94/1046, 5-11=-798/261, 5-9=0/312,

3-11=-799/262, 3-12=0/312, 2-12=0/1111,

6-9=0/1128

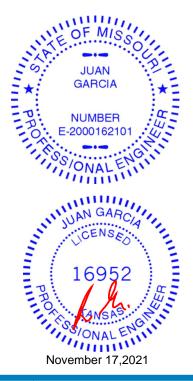
NOTES

WFBS

- 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) 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 capable of withstanding 192 lb uplift at joint 13 and 192 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





ſ	Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
	W0109	E9	Roof Special	5	1	Job Reference (optional)	148824386

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:37 ID:2ncXplsxOfbjlB6I7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

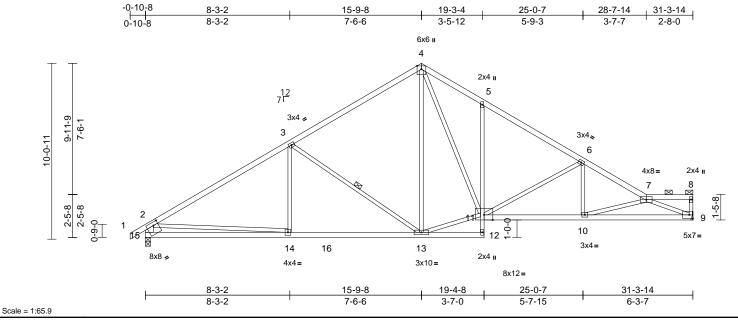


Plate Offsets (X, Y): [15:0-3-4,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.17	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.31	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.10	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	10-11	>999	240	Weight: 133 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 12-5:2x3 SPF No.2 2x3 SPF No.2 *Except* 15-2:2x6 SPF No.2 WEBS

BRACING

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

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

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

bracing, Except: 6-0-0 oc bracing: 12-13.

WEBS 1 Row at midpt 3-13

9=1393/ Mechanical, REACTIONS (lb/size)

15=1473/0-3-8

Max Horiz 15=222 (LC 5)

Max Uplift 9=-14 (LC 9), 15=-24 (LC 8)

Max Grav 9=1450 (LC 14), 15=1591 (LC 13)

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

Tension TOP CHORD

1-2=0/39, 2-3=-2208/39, 3-4=-1542/91,

4-5=-1984/135, 5-6=-2008/52, 6-7=-2708/20, 7-8=-84/0, 8-9=-122/19, 2-15=-1461/69

14-15=-221/935, 13-14=-54/1923, BOT CHORD 12-13=-14/26, 11-12=0/31, 5-11=-340/128,

10-11=0/2301, 9-10=-52/2859

3-14=0/322, 3-13=-793/128, 4-13=-18/348,

11-13=0/1313, 4-11=-99/1241, 6-11=-814/75,

6-10=0/410, 7-10=-594/61, 7-9=-3066/64,

2-14=0/1098

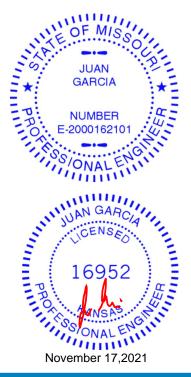
NOTES

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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 9 and 24 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

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

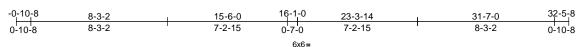
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

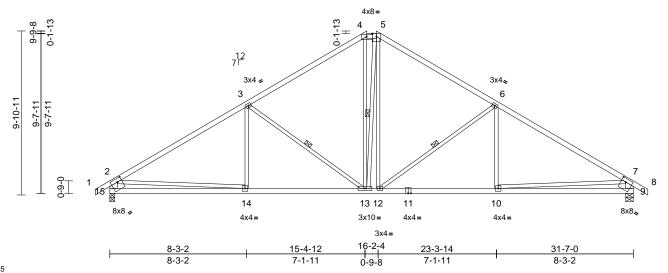


Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	G1	Hip	1	1	Job Reference (optional)	148824387

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:38 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:69.5 Plate Offsets (X, Y): [4:0-4-0,0-1-11], [9:0-3-4,0-2-8], [15:0-3-4,0-2-8]

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	0.75	Vert(LL)	-0.11	14-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.23	14-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	10-12	>999	240	Weight: 139 lb	FT = 10%

LUMBER

WEBS

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

2x3 SPF No.2 *Except* 15-2,9-7:2x6 SPF

BRACING TOP CHORD

Structural wood sheathing directly applied or 3-0-12 oc purlins, except end verticals, and

2-0-0 oc purlins (4-11-7 max.): 4-5.

BOT CHORD Rigid ceiling directly applied or 9-5-1 oc

bracing.

WEBS 1 Row at midpt 3-13, 5-13, 6-12

9=1478/0-5-8, 15=1478/0-3-8 REACTIONS (lb/size)

Max Horiz 15=-271 (LC 6)

Max Uplift 9=-191 (LC 9), 15=-191 (LC 8) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/39, 2-3=-2072/244, 3-4=-1506/255,

4-5=-1181/251, 5-6=-1502/254,

6-7=-2076/244, 7-8=0/39, 2-15=-1399/237,

7-9=-1401/237

BOT CHORD 14-15=-382/918, 13-14=-229/1666,

12-13=-20/1180, 10-12=-82/1670,

9-10=-246/738

WFRS 3-14=0/275, 3-13=-640/249, 4-13=-151/575,

5-13=-278/260, 5-12=-75/382,

6-12=-644/249, 6-10=0/281, 2-14=0/920,

7-10=0/935

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
- 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 191 lb uplift at joint 15 and 191 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



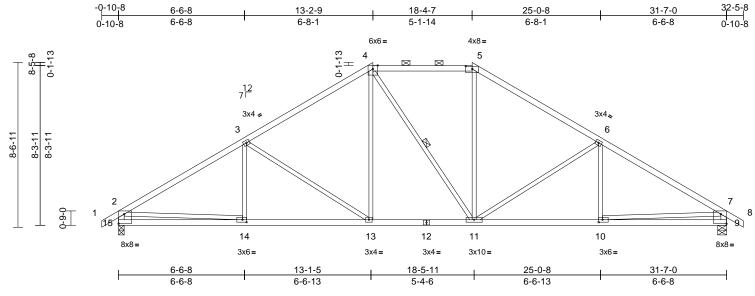
November 17,2021



Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	G2	Hip	1	1	Job Reference (optional)	148824388

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:38 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:59.8

Plate Offsets (X, Y): [5:0-4-0,0-1-11], [9:Edge,0-6-0], [10:0-2-8,0-1-8], [14:0-2-8,0-1-8], [15:Edge,0-6-0]

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	0.61	Vert(LL)	-0.11	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.22	13-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	13-14	>999	240	Weight: 129 lb	FT = 10%

LUMBER

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

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

BRACING TOP CHORD

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

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

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

bracing.

WEBS 1 Row at midpt

REACTIONS (lb/size) 9=1480/0-5-8, 15=1480/0-3-8

> 15=233 (LC 7) Max Horiz

Max Uplift 9=-175 (LC 9), 15=-175 (LC 8) Max Grav 9=1547 (LC 16), 15=1550 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/36, 2-3=-2219/228, 3-4=-1751/209,

4-5=-1418/234, 5-6=-1745/209,

6-7=-2213/228, 7-8=0/36, 2-15=-1442/209, 7-9=-1438/209

BOT CHORD 14-15=-250/734, 13-14=-222/1964,

11-13=-37/1450, 10-11=-96/1831,

9-10=-134/575

3-14=0/205, 3-13=-603/219, 4-13=-50/568,

4-11=-176/178, 5-11=-30/533, 6-11=-603/219,

6-10=0/204, 2-14=0/1306, 7-10=0/1301

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
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at ioint 15 and 175 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

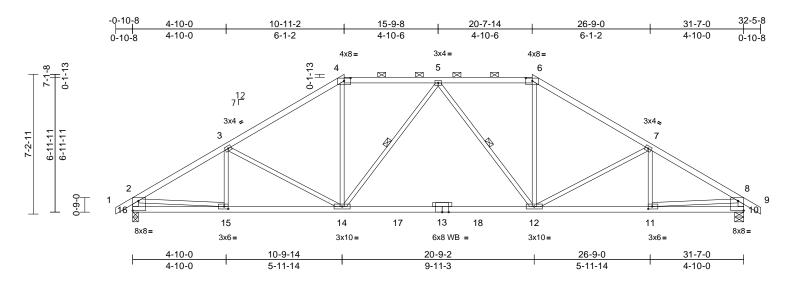




Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	G3	Hip	1	1	Job Reference (optional)	148824389

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:39 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:59.5

Plate Offsets (X, Y): [4:0-4-0,0-1-11], [6:0-4-0,0-1-11], [10:Edge,0-6-0], [11:0-2-8,0-1-8], [15:0-2-8,0-1-8], [16:Edge,0-6-0]

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	0.62	Vert(LL)	-0.31	12-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.53	12-14	>713	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	14-15	>999	240	Weight: 127 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 16-2,10-8:2x4 SPF WEBS

No 2 **OTHERS** 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-1-15 oc purlins, except end verticals, and

2-0-0 oc purlins (4-5-9 max.): 4-6. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 5-14, 5-12

REACTIONS (lb/size) 10=1480/0-5-8, 16=1480/0-3-8

Max Horiz 16=198 (LC 7)

Max Uplift 10=-155 (LC 9), 16=-155 (LC 8) Max Grav 10=1537 (LC 2), 16=1537 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/36, 2-3=-2210/206, 3-4=-1962/171,

4-5=-1615/198, 5-6=-1615/198,

6-7=-1962/171, 7-8=-2210/206, 8-9=0/36, 2-16=-1433/181, 8-10=-1433/180

BOT CHORD 15-16=-170/520, 14-15=-208/1898 12-14=-117/1736, 11-12=-105/1851,

10-11=-42/387

WEBS 3-15=-93/65, 3-14=-371/199, 4-14=0/648,

5-14=-372/192, 5-12=-372/192, 6-12=0/648, 7-12=-371/199, 7-11=-93/64, 2-15=-71/1474,

8-11=-64/1474

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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint 16 and 155 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

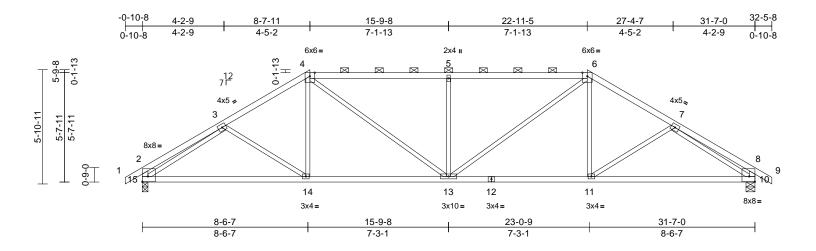




Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	G4	Hip	1	1	Job Reference (optional)	148824390

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:39 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:59.4

Plate Offsets (X, Y): [2:Edge,0-3-4], [10:Edge,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)	-0.13	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.27	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	13-14	>999	240	Weight: 121 lb	FT = 10%

LUMBER

WEBS

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

2x3 SPF No.2 *Except* 15-2,10-8:2x4 SPF

BRACING TOP CHORD

Structural wood sheathing directly applied or 3-11-2 oc purlins, except end verticals, and

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

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

bracing.

REACTIONS (lb/size) 10=1480/0-5-8, 15=1480/0-3-8

Max Horiz 15=163 (LC 7)

Max Uplift 10=-132 (LC 9), 15=-132 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36, 2-3=-578/63, 3-4=-1969/176,

4-5=-2136/226, 5-6=-2136/226,

6-7=-1969/176, 7-8=-578/63, 8-9=0/36, 2-15=-486/100, 8-10=-486/100

BOT CHORD 14-15=-237/1702, 13-14=-191/1644, 11-13=-77/1644, 10-11=-96/1702

3-14=-153/177, 4-14=0/313, 4-13=-209/711, 5-13=-610/245, 6-13=-209/711, 6-11=0/313,

7-11=-153/177, 3-15=-1567/140,

7-10=-1567/141

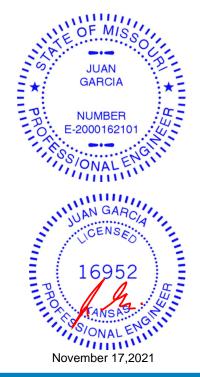
NOTES

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
- 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 132 lb uplift at joint 15 and 132 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard

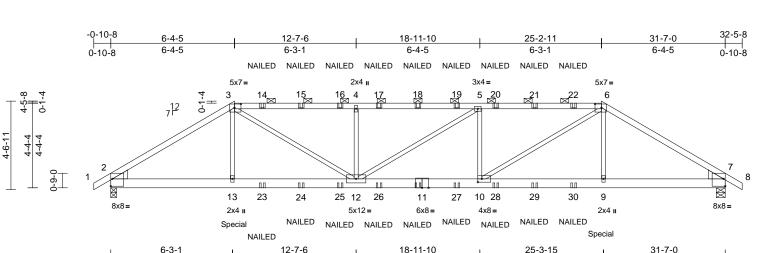




Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	G5	Hip Girder	1	1	Job Reference (optional)	I48824391

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6-4-5



6-4-5

Scale = 1:59.2

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

6-3-1

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	тс	0.94	Vert(LL)	-0.25	10-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.46	10-12	>819	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.12	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.20	10-12	>999	240	Weight: 130 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 3-6:2x4 SPF

2400F 2.0E

BOT CHORD 2x6 SPF 1650F 1.4F 2x3 SPF No.2 WEBS

WEDGE Left: 2x6 SPF No.2 Right: 2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-2-2 oc purlins, except 2-0-0 oc purlins (2-8-6 max.): 3-6.

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

bracing, Except:

8-11-7 oc bracing: 10-12.

2=2524/0-3-8, (req. 0-3-15), REACTIONS (lb/size)

7=2537/0-5-8

Max Horiz 2=109 (LC 7)

Max Uplift 2=-484 (LC 8), 7=-487 (LC 9)

FORCES

TOP CHORD

(lb) - Maximum Compression/Maximum Tension

1-2=0/11, 2-3=-4194/815, 3-4=-5055/968,

4-5=-5052/967. 5-6=-5052/966.

6-7=-4170/811, 7-8=0/11

BOT CHORD 2-13=-725/3422, 12-13=-722/3405,

10-12=-947/5050, 9-10=-610/3372,

7-9=-612/3389

WEBS 3-13=-128/700, 3-12=-412/2042,

4-12=-815/342, 5-12=-46/50, 5-10=-845/363,

6-10=-418/2076, 6-9=-127/694

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

Provide adequate drainage to prevent water ponding.

6-4-5

- 4) 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.
- WARNING: Required bearing size at joint(s) 2 greater than input bearing size
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 484 lb uplift at joint 2 and 487 lb uplift at joint 7.
- 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) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 459 lb down and 208 lb up at 6-4-5, and 459 lb down and 208 lb up at 25-2-11 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Concentrated Loads (lb)

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-3=-70, 3-6=-70, 6-8=-70, 2-7=-20

Vert: 11=-45 (B), 13=-429 (B), 9=-429 (B), 14=-93 (B), 15=-93 (B), 16=-93 (B), 17=-93 (B), 18=-93 (B), 19=-93 (B), 20=-93 (B), 21=-93 (B), 22=-93 (B), 23=-45 (B), 24=-45 (B), 25=-45 (B), 26=-45 (B), 27=-45 (B), 28=-45 (B), 29=-45 (B), 30=-45 (B)

6-3-1

Page: 1



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



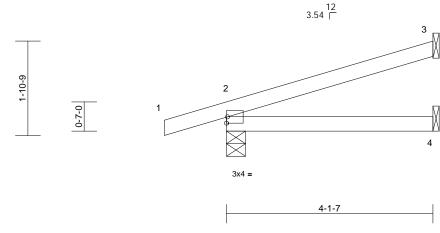
Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J4	Diagonal Hip Girder	2	1	Job Reference (optional)	148824392

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:42 ID:LmNHaNe4yhgoAaLbn?W9JhyKfLi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

6-6-1

-1-2-14	4-1-7
1-2-14	4-1-7



Scale = 1:23

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)	-0.01	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	2-4	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	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 2x4 SPF No.2 **BOT CHORD**

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-7 oc purlins.

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

bracing.

REACTIONS (lb/size) 2=147/0-4-9, 3=76/ Mechanical,

4=27/ Mechanical

Max Horiz 2=69 (LC 6)

Max Uplift 2=-96 (LC 6), 3=-58 (LC 6) Max Grav 2=147 (LC 1), 3=76 (LC 1), 4=65

(LC 3)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1/4, 2-3=-41/18

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 58 lb uplift at joint 3 and 96 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) 30 lb down and 11 lb up at -1-2-14, and 30 lb down and 11 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.15

Concentrated Loads (lb)

Vert: 1=-46 (F=-23 B=-23)

Trapezoidal Loads (lb/ft)

Vert: 1=0 (F=35, B=35)-to-2=-25 (F=23, B=23), 2=-3

(F=33, B=33)-to-3=-72 (F=-1, B=-1), 2=0 (F=10,

B=10)-to-4=-21 (F=0, B=0)



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

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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

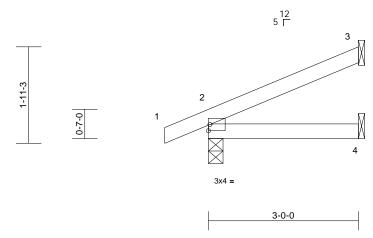
Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J5	Jack-Open	5	1	Job Reference (optional)	148824393

Run: 8.43 S. Oct 11 2021 Print: 8.430 S. Oct 11 2021 MiTek Industries, Inc. Tue Nov 16 09:55:42 ID:6VH0Yg764UFvW_YKmTF43dyKfMN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-10-0

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		Vert(LL)	0.00	2-4	>999		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	вс	0.07	Vert(CT)	-0.01	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: 8 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 2=210/0-3-8, 3=85/ Mechanical,

4=28/ Mechanical

Max Horiz 2=64 (LC 8)

Max Uplift 2=-35 (LC 8), 3=-52 (LC 8) Max Grav 2=210 (LC 1), 3=85 (LC 1), 4=56

(LC 3)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-59/31

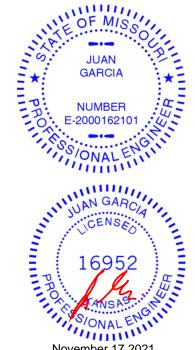
BOT CHORD 2-4=0/0

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 52 lb uplift at joint 3 and 35 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



November 17,2021



Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J6	Jack-Closed Supported Gable	2	1	Job Reference (optional)	148824394

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:42 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

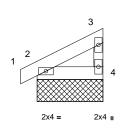


12 6 F

2x4 II









1-6-0

Scale = 1:26.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 5 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 1-6-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 2=93/1-6-0, 4=59/1-6-0

Max Horiz 2=35 (LC 5)

Max Uplift 2=-17 (LC 8), 4=-15 (LC 8) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/5, 2-3=-36/18, 3-4=-45/24

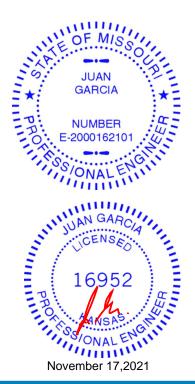
BOT CHORD 2-4=-11/9

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.
- 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 15 lb uplift at joint 4 and 17 lb uplift at joint 2.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

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



Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J7	Jack-Closed	2	1	Job Reference (optional)	148824395

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:43 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

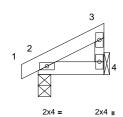






2x4 II







1-6-0

Scale = 1:26.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	0.00	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	2-4	>999	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: 5 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 1-6-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 2=94/0-3-8, 4=57/ Mechanical

Max Horiz 2=35 (LC 5)

Max Uplift 2=-17 (LC 8), 4=-15 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

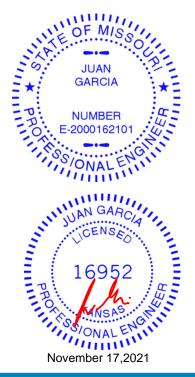
Tension 1-2=0/5, 2-3=-36/18, 3-4=-44/23

TOP CHORD BOT CHORD 2-4=-11/9

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 15 lb uplift at joint 4 and 17 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



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

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

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

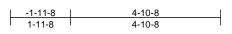


16023 Swingley Ridge Rd Chesterfield, MO 63017

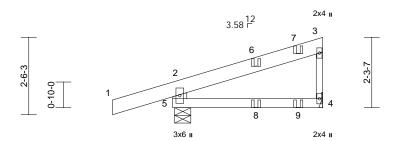
Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J8	Diagonal Hip Girder	1	1	Job Reference (optional)	148824396

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:43 ID:2ncXplsxOfbjlB6I7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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NAILED



NAILED

NAILED

0-0-12 4-10-8 4-9-12 0-0-12

NAILED

Scale = 1:37.5

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	0.17	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.03	4-5	>999	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-R		Wind(LL)	0.00	4-5	>999	240	Weight: 20 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 5-2:2x6 SPF No.2 WEBS

BRACING

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

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

bracing.

REACTIONS (lb/size) 4=214/ Mechanical, 5=401/0-6-5

Max Horiz 5=93 (LC 5)

Max Uplift 4=-61 (LC 5), 5=-153 (LC 4) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/44, 2-3=-99/24, 3-4=-160/86,

2-5=-354/179

BOT CHORD 4-5=-18/35

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 61 lb uplift at joint 4 and 153 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.
- "NAILED" indicates 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 4-5=-20

Concentrated Loads (lb)

Vert: 7=-43 (F), 8=5 (B), 9=-15 (F)



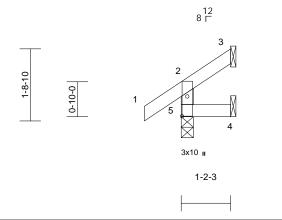


Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J9	Jack-Open	1	1	Job Reference (optional)	148824397

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Page: 1





Scale = 1:27.5

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

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)	0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 5 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 1-2-3 oc purlins, except end verticals.

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

bracing.

3=9/ Mechanical, 4=1/ Mechanical, REACTIONS (lb/size)

5=153/0-3-8

Max Horiz 5=43 (LC 8)

Max Uplift 3=-22 (LC 8), 4=-5 (LC 8), 5=-14

(LC 8)

Max Grav 3=17 (LC 15), 4=17 (LC 3), 5=153

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-134/31, 1-2=0/40, 2-3=-35/7

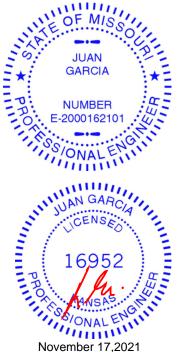
BOT CHORD 4-5=0/0

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 14 lb uplift at joint 5, 5 lb uplift at joint 4 and 22 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

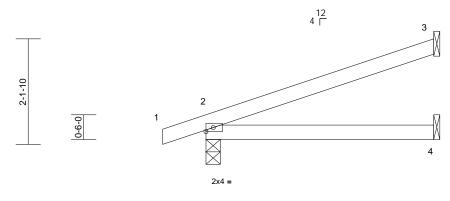




Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J10	Jack-Open	1	1	Job Reference (optional)	148824398

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4-7-5

Scale = 1:23.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	_	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.02	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.05	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: 12 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

4-7-5 oc purlins.

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

bracing.

REACTIONS (lb/size) 2=278/0-3-8, 3=146/ Mechanical,

4=44/ Mechanical

Max Horiz 2=75 (LC 4)

Max Uplift 2=-72 (LC 4), 3=-74 (LC 8) Max Grav 2=278 (LC 1), 3=146 (LC 1), 4=88

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

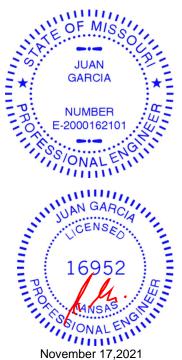
TOP CHORD 1-2=0/6, 2-3=-67/42

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 74 lb uplift at joint 3 and 72 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



Page: 1

2-0-7

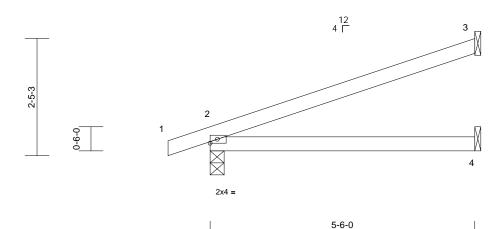


Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J11	Jack-Open	3	1	Job Reference (optional)	148824399

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Scale = 1:23.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.05	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.09	2-4	>675	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: 14 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-6-0 oc purlins. **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 2=316/0-3-8, 3=178/ Mechanical,

4=53/ Mechanical

Max Horiz 2=87 (LC 4)

Max Uplift 2=-76 (LC 4), 3=-90 (LC 8)

Max Grav 2=316 (LC 1), 3=178 (LC 1), 4=106

(LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

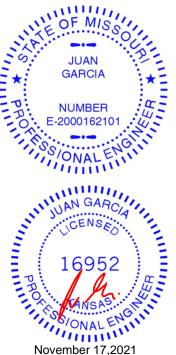
TOP CHORD 1-2=0/6, 2-3=-68/50

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 90 lb uplift at joint 3 and 76 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

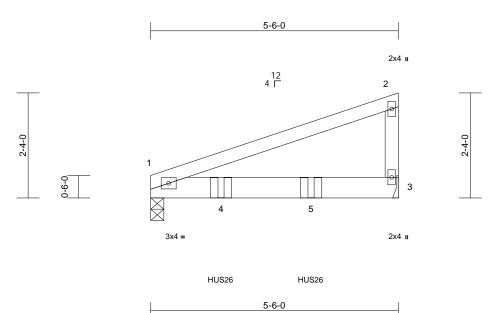




Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J12	Jack-Closed Girder	1	1	Job Reference (optional)	148824400

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	le =	le = 1:25.

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	0.60	Vert(LL)	-0.10	1-3	>626	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.18	1-3	>340	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.07	1-3	>917	240	Weight: 21 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-3-8 oc

bracing.

REACTIONS (lb/size) 1=1146/0-3-8, 3=1023/ Mechanical

Max Horiz 1=85 (LC 5)

Max Uplift 1=-154 (LC 4), 3=-153 (LC 8) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD 1-2=-75/50, 2-3=-182/82 BOT CHORD 1-3=-27/20

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 154 lb uplift at joint 1 and 153 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.
- Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-6-12 from the left end to 3-6-12 to connect truss(es) to front face of bottom chord.

- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 1-3=-20

Concentrated Loads (lb)

Vert: 4=-850 (F), 5=-850 (F)

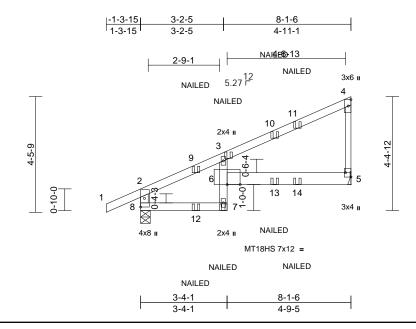




Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J13	Diagonal Hip Girder	1	1	Job Reference (optional)	148824401

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Page: 1



Scale = 1:44.5

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.13	5-6	>725	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.23	5-6	>408	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.08	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.16	5-6	>580	240	Weight: 29 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 6-5:2x6 SPF No.2 2x4 SPF No.2 *Except* 4-5:2x3 SPF No.2 WEBS

BRACING

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

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

bracing.

REACTIONS (lb/size) 5=381/ Mechanical, 8=483/0-4-7

Max Horiz 8=167 (LC 5)

Max Uplift 5=-154 (LC 5), 8=-115 (LC 8)

Max Grav 5=382 (LC 15), 8=483 (LC 1) (lb) - Maximum Compression/Maximum

Tension

2-8=-434/134, 1-2=0/41, 2-3=-487/109,

TOP CHORD 3-4=-151/38, 4-5=-190/92

7-8=-165/333, 6-7=-1/51, 3-6=-43/72,

BOT CHORD

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) 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
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 8 and 154 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.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

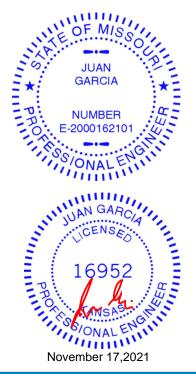
Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-4=-70, 7-8=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 7=0 (F), 10=-7 (B), 11=-7 (F), 12=2 (B), 13=-28

(B), 14=-12 (F)

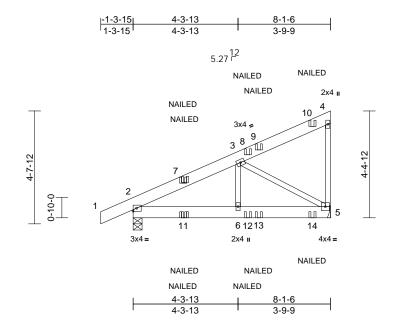




Jo	bb	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W	/0109	J14	Diagonal Hip Girder	2	1	Job Reference (optional)	148824402

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:45 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:47.4

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	0.19	Vert(LL)	0.00	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.01	2-6	>999	240	Weight: 41 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x6 SPF No.2 2x3 SPF No.2 WEBS

BRACING

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

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

bracing.

REACTIONS (lb/size) 2=483/0-4-7, 5=459/ Mechanical

Max Horiz 2=172 (LC 5)

Max Uplift 2=-117 (LC 8), 5=-190 (LC 5) Max Grav 2=483 (LC 1), 5=477 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/16, 2-3=-591/112, 3-4=-148/75,

4-5=-177/136

BOT CHORD 2-6=-166/409, 5-6=-166/409 WEBS 3-6=0/207, 3-5=-463/191

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 190 lb uplift at joint 5 and 117 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.

- "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-4=-70, 2-5=-20

Concentrated Loads (lb)

Vert: 9=-9 (F), 10=-84 (B), 11=6 (F=2, B=4), 12=-4

(B), 13=-14 (F), 14=-26 (B)



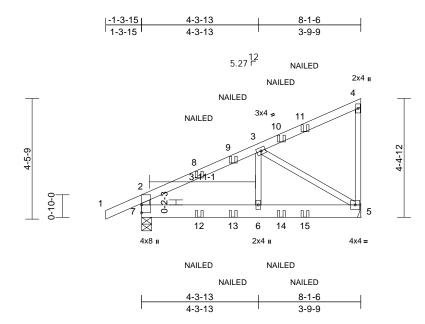
November 17,2021



Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J14A	Diagonal Hip Girder	1	1	Job Reference (optional)	148824403

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:45 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.6

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)	-0.01	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.01	5-6	>999	240	Weight: 35 lb	FT = 10%

LUMBER

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

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

BRACING

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

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

bracing.

REACTIONS (lb/size) 5=387/ Mechanical, 7=483/0-4-7

Max Horiz 7=182 (LC 7)

Max Uplift 5=-138 (LC 5), 7=-109 (LC 8) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 2-7=-409/123, 1-2=0/41, 2-3=-508/101,

3-4=-140/57, 4-5=-117/70

BOT CHORD 6-7=-164/365, 5-6=-164/365 **WEBS** 3-6=0/166, 3-5=-408/173

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
- 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 109 lb uplift at joint 7 and 138 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.
- "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-4=-70, 5-7=-20

Concentrated Loads (lb)

Vert: 10=-9 (F), 11=-21 (B), 12=2 (F), 13=0 (B),

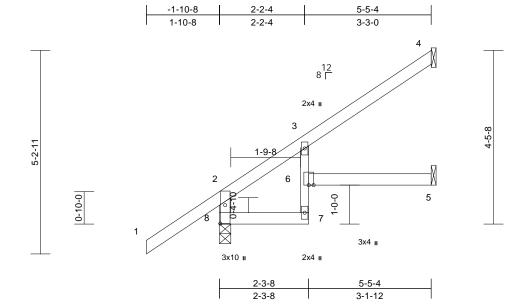
14=-14 (F), 15=-17 (B)





Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J15A	Jack-Open	1	1	Job Reference (optional)	148824404

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:45 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:29.6

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

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	0.30	Vert(LL)	-0.04	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.08	5-6	>767	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.04	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.07	5-6	>881	240	Weight: 18 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

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

2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-5-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 4=143/ Mechanical, 5=65/ Mechanical, 8=404/0-3-8

Max Horiz 8=181 (LC 8)

Max Uplift 4=-90 (LC 8), 5=-8 (LC 8), 8=-36

(LC 8)

Max Grav 4=154 (LC 15), 5=85 (LC 3), 8=404

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-367/67, 1-2=0/78, 2-3=-180/0,

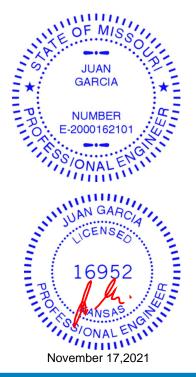
3-4=-69/75

BOT CHORD 7-8=-64/84, 6-7=-7/39, 3-6=0/81, 5-6=0/0

- 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 36 lb uplift at joint 8, 90 lb uplift at joint 4 and 8 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



Page: 1

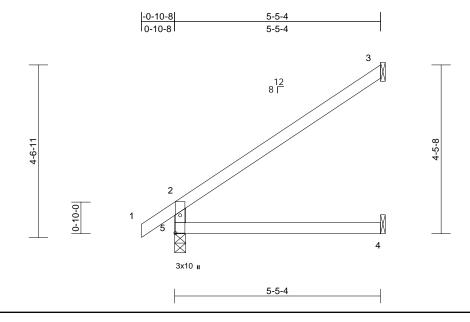




Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J16	Jack-Open	17	1	Job Reference (optional)	148824405

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:46 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.4

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

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	0.43	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.08	4-5	>791	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.04	4-5	>999	240	Weight: 16 lb	FT = 10%

LOAD CASE(S) Standard

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

BRACING

LUMBER

TOP CHORD Structural wood sheathing directly applied or

5-5-4 oc purlins, except end verticals. BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 3=163/ Mechanical, 4=65/ Mechanical, 5=314/0-3-8

Max Horiz 5=110 (LC 8)

Max Uplift 3=-69 (LC 8)

Max Grav 3=168 (LC 13), 4=100 (LC 3),

5=314 (LC 1)

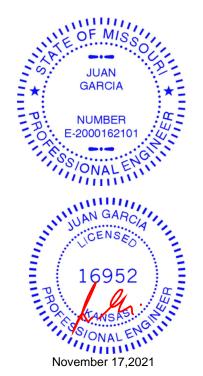
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-275/28, 1-2=0/40, 2-3=-116/77

BOT CHORD 4-5=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); 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 69 lb uplift at joint
- 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.



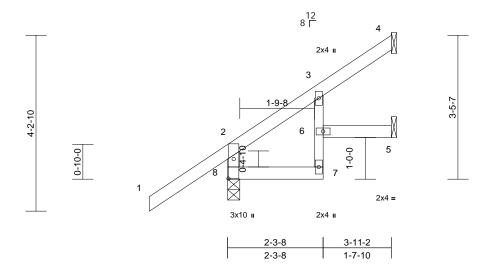


Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J17A	Jack-Open	1	1	Job Reference (optional)	148824406

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:46 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

-1-10-8	2-2-4	3-11-2
1-10-8	2-2-4	1-8-14



Scale = 1:27.6

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

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	0.29	Vert(LL)	-0.01	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.02	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	6	>999	240	Weight: 14 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

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

2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-2 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 4=90/ Mechanical, 5=39/

Mechanical, 8=347/0-3-8

Max Horiz 8=140 (LC 8)

Max Uplift 4=-54 (LC 8), 5=-13 (LC 8), 8=-41 (LC 8)

Max Grav 4=97 (LC 15), 5=55 (LC 3), 8=347

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-311/67, 1-2=0/78, 2-3=-111/0,

3-4=-40/48

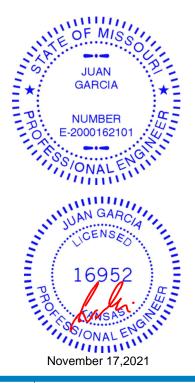
BOT CHORD 7-8=-32/34, 6-7=-1/37, 3-6=-1/49, 5-6=0/0

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 41 lb uplift at joint 8, 54 lb uplift at joint 4 and 13 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

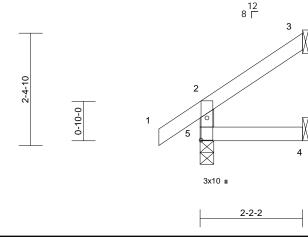




Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J18	Jack-Open	2	1	Job Reference (optional)	148824407

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:46 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-10-8	2-2-2
0-10-8	2-2-2



Scale = 1:24.5

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

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)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-5	>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-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 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 2-2-2 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=53/ Mechanical, 4=18/

Mechanical, 5=179/0-3-8

Max Horiz 5=69 (LC 8)

Max Uplift 3=-45 (LC 8), 4=-2 (LC 8), 5=-10

(LC 8)

Max Grav 3=60 (LC 15), 4=36 (LC 3), 5=179

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-157/35, 1-2=0/40, 2-3=-54/27

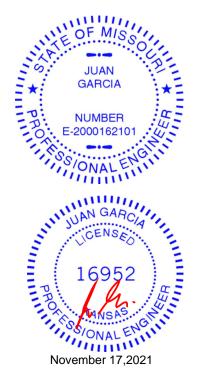
BOT CHORD 4-5=0/0

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 10 lb uplift at joint 5, 45 lb uplift at joint 3 and 2 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



Page: 1

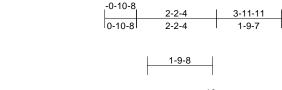


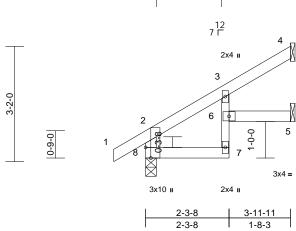
Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J19	Jack-Open	1	1	Job Reference (optional)	148824408

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:46 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

3-0-13

Page: 1





Scale = 1:31.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.01	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.02	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	7	>999	240	Weight: 13 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

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

2x4 SPF No.2 WEBS

BRACING

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

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

bracing.

REACTIONS (lb/size) 4=101/ Mechanical, 5=59/ Mechanical, 8=251/0-3-8

Max Horiz 8=103 (LC 8)

Max Uplift 4=-52 (LC 8), 5=-15 (LC 8), 8=-19

(LC 8)

Max Grav 4=106 (LC 15), 5=64 (LC 15),

8=251 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-232/46, 1-2=0/36, 2-3=-136/0,

3-4=-36/48

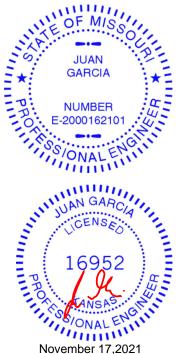
BOT CHORD 7-8=-43/72, 6-7=-3/43, 3-6=-2/51, 5-6=0/0

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 19 lb uplift at joint 8, 52 lb uplift at joint 4 and 15 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



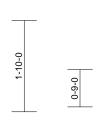


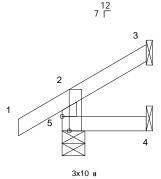
Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J20	Jack-Open	4	1	Job Reference (optional)	148824409

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:47 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1









1-8-5

Scale = 1:23.2

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

Loading	(psf)	Spacing	2-0-0	CSI	-	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-5	>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-R		Wind(LL)	0.00	4-5	>999	240	Weight: 6 lb	FT = 10%

LOAD CASE(S) Standard

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

BRACING

LUMBER

TOP CHORD Structural wood sheathing directly applied or 1-8-5 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=35/ Mechanical, 4=10/

Mechanical, 5=164/0-5-8

Max Horiz 5=50 (LC 8)

Max Uplift 3=-30 (LC 8), 5=-19 (LC 8) Max Grav 3=40 (LC 15), 4=27 (LC 3), 5=164

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

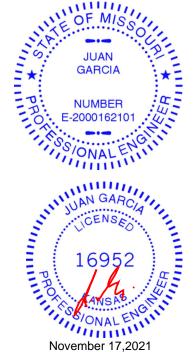
Tension

TOP CHORD 2-5=-144/37, 1-2=0/36, 2-3=-39/16

BOT CHORD 4-5=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 19 lb uplift at joint 5 and 30 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.

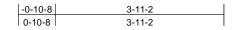


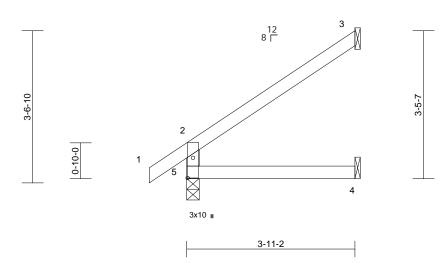


Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J21	Jack-Open	1	1	Job Reference (optional)	148824410

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:47 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:26.9

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

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	0.20	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 12 lb	FT = 10%

LUMBER LOAD CASE(S) Standard

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-2 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=114/ Mechanical, 4=44/

Mechanical, 5=249/0-3-8

Max Horiz 5=116 (LC 8)

Max Uplift 3=-82 (LC 8), 5=-7 (LC 8)

Max Grav 3=122 (LC 15), 4=70 (LC 3), 5=249

(LC 1)

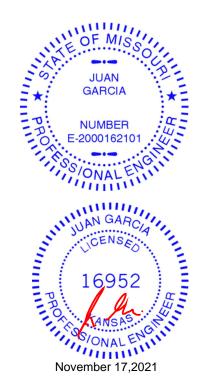
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-218/49, 1-2=0/40, 2-3=-96/56

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) 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 7 lb uplift at joint 5 and 82 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.

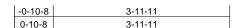


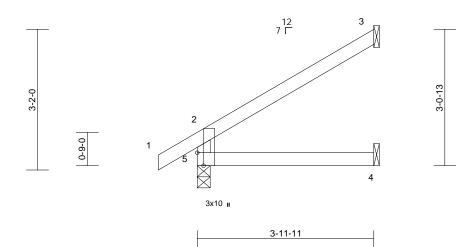


Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J22	Jack-Open	3	1	Job Reference (optional)	148824411

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:47 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:25.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 11 lb	FT = 10%

LOAD CASE(S) Standard

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

BRACING

LUMBER

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

bracing.

REACTIONS (lb/size) 3=115/ Mechanical, 4=44/ Mechanical, 5=251/0-3-8

Max Horiz 5=103 (LC 8)

Max Uplift 3=-73 (LC 8), 5=-19 (LC 8)

Max Grav 3=122 (LC 15), 4=71 (LC 3), 5=251

(LC 1)

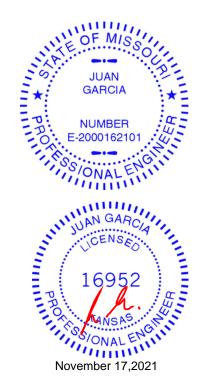
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-220/58, 1-2=0/36, 2-3=-86/50

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) 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 19 lb uplift at joint 5 and 73 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.

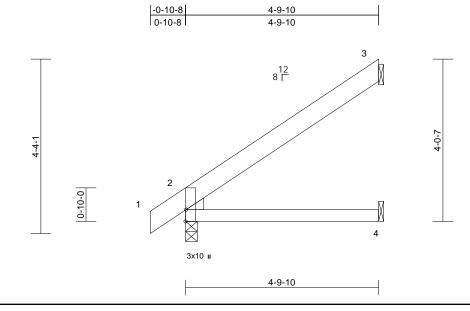




Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J23	Jack-Open	2	1	Job Reference (optional)	148824412

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:47 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28.7

Plate Offsets	(X, Y):	[2:Edge,0-	0-3
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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	0.16	Vert(LL)	-0.03	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.05	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: 19 lb	FT = 10%

LUMBER LOAD CASE(S) Standard

TOP CHORD 2x6 SPF No.2 BOT CHORD 2x4 SPF No.2 Left: 2x4 SPF No.2 WEDGE

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-9-10 oc purlins.

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

bracing.

REACTIONS (lb/size) 2=286/0-3-8, 3=153/ Mechanical,

4=46/ Mechanical

Max Horiz 2=152 (LC 8)

Max Uplift 2=-8 (LC 8), 3=-120 (LC 8) Max Grav 2=286 (LC 1), 3=165 (LC 15), 4=92

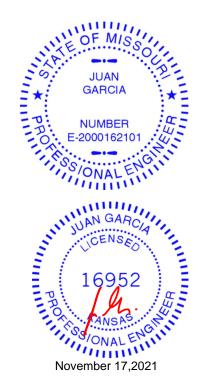
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/12, 2-3=-133/85

BOT CHORD 2-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) 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 120 lb uplift at joint 3 and 8 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.

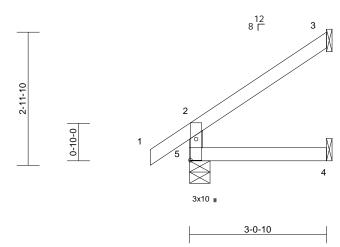




Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J24	Jack-Open	2	1	Job Reference (optional)	148824413

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:48 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-0-10-8 3-0-10 0-10-8 3-0-10



Scale = 1:25.7

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

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	0.10	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 10 lb	FT = 10%

LOAD CASE(S) Standard

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

BRACING

LUMBER

TOP CHORD Structural wood sheathing directly applied or 3-0-10 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size)

3=84/ Mechanical, 4=31/ Mechanical, 5=212/0-5-8

Max Horiz 5=93 (LC 8)

Max Uplift 3=-64 (LC 8), 5=-8 (LC 8)

Max Grav 3=92 (LC 15), 4=53 (LC 3), 5=212

(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-186/42, 1-2=0/40, 2-3=-75/42

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) 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 8 lb uplift at joint 5 and 64 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.



Page: 1

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

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

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

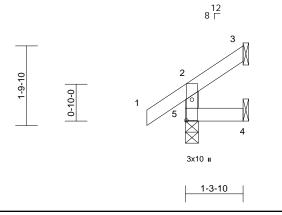


16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J25	Jack-Open	2	1	Job Reference (optional)	148824414

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:48 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-0-10-8	1-3-10
0-10-8	1-3-10



Scale = 1:26.1

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

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)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 5 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 1-3-10 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size)

3=16/ Mechanical, 4=3/ Mechanical, 5=155/0-3-8

Max Horiz 5=46 (LC 8)

Max Uplift 3=-25 (LC 8), 4=-4 (LC 8), 5=-13

(LC 8)

3=24 (LC 15), 4=19 (LC 3), 5=155

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-135/31, 1-2=0/40, 2-3=-36/9

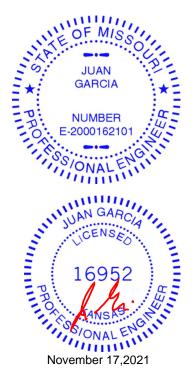
BOT CHORD 4-5=0/0

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 13 lb uplift at joint 5, 4 lb uplift at joint 4 and 25 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



Page: 1



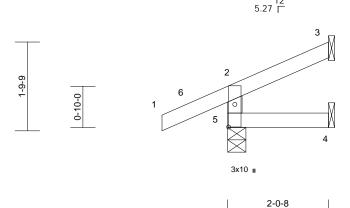
Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J26	Jack-Open Girder	1	1	Job Reference (optional)	148824415

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:48 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

1-8-12

Page: 1

-1-3-15	2-0-8
1-3-15	2-0-8



Scale = 1:23.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD 2-0-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=24/ Mechanical, 4=-1/ Mechanical, 5=56/0-4-7

Max Horiz 5=66 (LC 7)

Max Uplift 3=-23 (LC 12), 4=-5 (LC 20),

5=-131 (LC 12)

3=24 (LC 1), 4=18 (LC 3), 5=56

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-61/127, 1-2=-3/11, 2-3=-21/6

BOT CHORD 4-5=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 131 lb uplift at joint 5, 23 lb uplift at joint 3 and 5 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 9 lb down and 4 lb up at -1-3-15, and 9 lb down and 4 lb up at -1-3-15 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

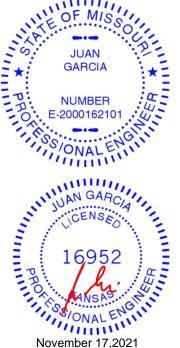
Concentrated Loads (lb)

Vert: 1=-13 (F=-7, B=-7)

Trapezoidal Loads (lb/ft)

Vert: 1=0 (F=35, B=35)-to-6=-9 (F=30, B=30), 6=0 (F=35, B=35)-to-2=-17 (F=27, B=27), 2=-17 (F=27, B=27)-to-3=-49 (F=10, B=10), 5=15 (F=18, B=18)-

to-4=-10 (F=5, B=5)

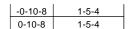


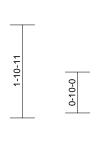


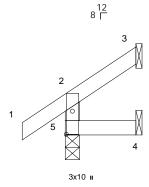
Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	J27	Jack-Open	1	1	Job Reference (optional)	148824416

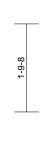
Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:49 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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1-5-4

Scale = 1:23.4

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

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)	0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 5 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-5-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size)

3=23/ Mechanical, 4=6/ Mechanical, 5=158/0-3-8

Max Horiz 5=50 (LC 8)

Max Uplift 3=-29 (LC 8), 4=-4 (LC 8), 5=-12

(LC 8)

Max Grav 3=30 (LC 15), 4=22 (LC 3), 5=158

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-138/31, 1-2=0/40, 2-3=-39/13

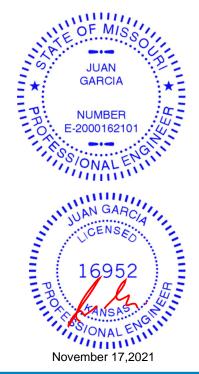
BOT CHORD 4-5=0/0

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 12 lb uplift at joint 5, 4 lb uplift at joint 4 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





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

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

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

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

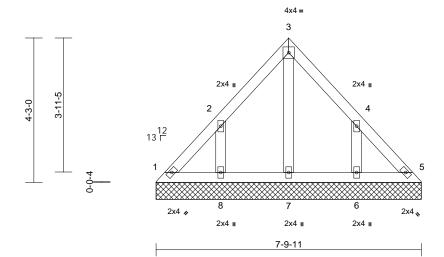


16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	LAY1	Lay-In Gable	1	1	Job Reference (optional)	148824417

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:49 ID:iHE0mj7YmgaGMap5ahjJOwyKfL5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:33.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size)

1=71/7-9-11, 5=71/7-9-11, 6=198/7-9-11, 7=110/7-9-11,

8=198/7-9-11

Max Horiz 1=104 (LC 5)

1=-25 (LC 4), 5=-8 (LC 5), 6=-147 Max Uplift

(LC 9), 8=-147 (LC 8)

Max Grav 1=96 (LC 16), 5=87 (LC 18), 6=226

(LC 16), 7=122 (LC 18), 8=226 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-115/87, 2-3=-98/77, 3-4=-90/62,

4-5=-99/64

BOT CHORD 1-8=-42/89, 7-8=-42/89, 6-7=-42/89,

5-6=-42/89

WFRS 3-7=-82/0, 2-8=-186/171, 4-6=-186/171

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 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 25 lb uplift at joint 1, 8 lb uplift at joint 5, 147 lb uplift at joint 8 and 147 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



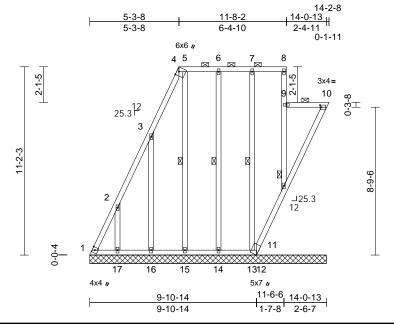
Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	LAY2	Lay-In Gable	1	1	Job Reference (optional)	I48824418

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:49 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:68.4

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

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	0.13	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	0.25	Horiz(TL)	-0.02	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 102 lb	FT = 10%

ш	IM	IR	F	R

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-8, 9-11, 9-10. Except:

1 Row at midpt 9-11

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc

bracing, Except: 10-0-0 oc bracing: 11-12.

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

REACTIONS (lb/size)

1=47/14-0-9, 10=109/14-0-9, 11=202/14-0-9, 12=-13/14-0-9, 13=190/14-0-9, 14=180/14-0-9,

15=178/14-0-9, 16=181/14-0-9, 17=172/14-0-9

Max Horiz 1=535 (LC 8)

Max Uplift 1=-423 (LC 6), 10=-278 (LC 8),

11=-78 (LC 6), 12=-26 (LC 6), 13=-36 (LC 4), 14=-47 (LC 4), 15=-189 (LC 8), 16=-411 (LC 8),

17=-372 (LC 8)

Max Grav 1=859 (LC 8), 10=201 (LC 15), 11=283 (LC 17), 12=20 (LC 8), 13=191 (LC 22), 14=186 (LC 22),

15=216 (LC 15), 16=333 (LC 15), 17=306 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-952/511, 2-3=-595/331, 3-4=-175/106,

4-5=-11/12, 5-6=-11/12, 6-7=-11/12, 7-8=-11/12, 9-11=-152/63, 8-9=-59/30,

9-10=-49/80

BOT CHORD

1-17=-79/45, 16-17=-79/45, 15-16=-79/45, 14-15=-79/45, 13-14=-79/45, 12-13=-79/45,

11-12=-84/54, 10-11=-297/177

WEBS 2-17=-258/377, 3-16=-294/439,

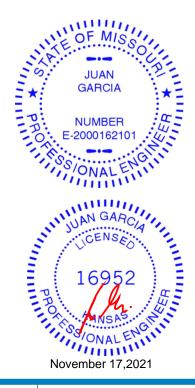
5-15=-176/212, 6-14=-145/72, 7-13=-145/62

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.
- Provide adequate drainage to prevent water ponding.
- 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.
- * 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 423 lb uplift at joint 1, 78 lb uplift at joint 11, 278 lb uplift at joint 10, 26 Ib uplift at joint 12, 372 lb uplift at joint 17, 411 lb uplift at joint 16, 189 lb uplift at joint 15, 47 lb uplift at joint 14 and 36 lb uplift at joint 13.
- 10) Non Standard bearing condition. Review required.
- 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.

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

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

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

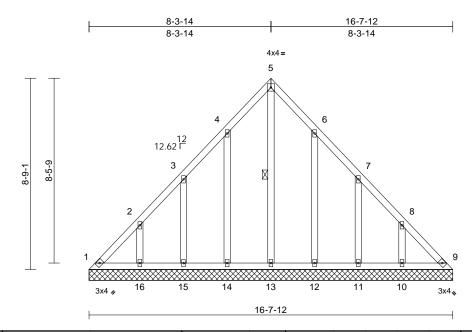


16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	LAY3	GABLE	1	1	Job Reference (optional)	I48824419

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Nov 16 09:55:50 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:52.7

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	0.06	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	0.12	Horiz(TL)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 82 lb	FT = 10%

LUMBER

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

WFRS 1 Row at midpt 5-13

REACTIONS (lb/size)

1=94/16-7-12, 9=94/16-7-12, 10=203/16-7-12, 11=173/16-7-12, 12=188/16-7-12, 13=121/16-7-12, 14=188/16-7-12, 15=173/16-7-12,

16=203/16-7-12

Max Horiz 1=-222 (LC 4)

Max Uplift 1=-81 (LC 6), 9=-44 (LC 7), 10=-139 (LC 9), 11=-123 (LC 9),

12=-125 (LC 9), 14=-126 (LC 8), 15=-122 (LC 8), 16=-139 (LC 8)

Max Grav 1=191 (LC 8), 9=166 (LC 9), 10=229 (LC 16), 11=195 (LC 16),

12=213 (LC 16), 13=201 (LC 9), 14=215 (LC 15), 15=194 (LC 15),

16=229 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-285/187, 2-3=-162/134, 3-4=-135/105,

4-5=-109/170, 5-6=-88/148, 6-7=-96/70, 7-8=-133/82, 8-9=-250/135

1-16=-95/205, 15-16=-95/205, BOT CHORD

14-15=-95/205, 13-14=-95/205,

12-13=-95/205, 11-12=-95/205, 10-11=-95/205, 9-10=-95/205

WEBS 5-13=-177/21, 4-14=-174/150, 3-15=-157/147, 2-16=-177/158

6-12=-172/148, 7-11=-158/148,

8-10=-177/158

- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 0-0-0 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 81 lb uplift at joint 1, 44 lb uplift at joint 9, 126 lb uplift at joint 14, 122 lb uplift at joint 15, 139 lb uplift at joint 16, 125 lb uplift at joint 12, 123 lb uplift at joint 11 and 139 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



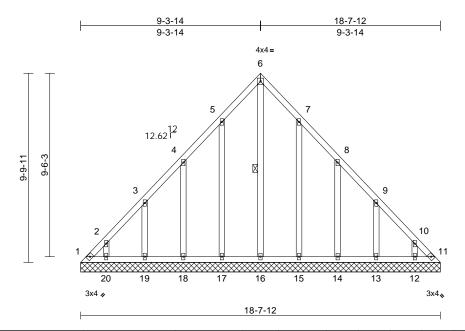
NOTES



Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	LAY4	GABLE	1	1	Job Reference (optional)	148824420

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Page: 1



Scale = 1:59.7

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	0.06	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	0.16	Horiz(TL)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 98 lb	FT = 10%

LUMBER

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

WFRS 1 Row at midpt 6-16

REACTIONS (lb/size)

1=45/18-7-12, 11=45/18-7-12, 12=154/18-7-12, 13=185/18-7-12, 14=178/18-7-12, 15=186/18-7-12, 16=121/18-7-12, 17=186/18-7-12, 18=178/18-7-12, 19=185/18-7-12,

20=154/18-7-12

Max Horiz 1=-250 (LC 4) Max Uplift

1=-139 (LC 6), 11=-97 (LC 7), 12=-106 (LC 9), 13=-126 (LC 9), 14=-127 (LC 9), 15=-121 (LC 9),

17=-124 (LC 8), 18=-126 (LC 8), 19=-127 (LC 8), 20=-106 (LC 8) 1=258 (LC 8), 11=230 (LC 9),

Max Grav 12=173 (LC 16), 13=209 (LC 16), 14=201 (LC 16), 15=211 (LC 16), 16=230 (LC 9), 17=214 (LC 15), 18=200 (LC 15), 19=209 (LC 15),

20=173 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-361/219, 2-3=-263/185, 3-4=-165/137, TOP CHORD 4-5=-139/128, 5-6=-113/191, 6-7=-88/169, 7-8=-95/89, 8-9=-122/79, 9-10=-224/127,

10-11=-322/161

BOT CHORD 1-20=-108/232, 19-20=-108/232,

18-19=-108/232, 17-18=-108/232, 16-17=-108/232, 15-16=-108/232, 14-15=-108/232, 13-14=-108/232, 12-13=-108/232, 11-12=-108/232

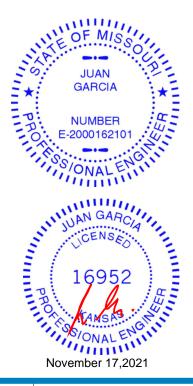
WEBS

6-16=-206/26, 5-17=-174/148, 4-18=-160/150, 3-19=-168/152, 2-20=-137/123, 7-15=-171/145, 8-14=-161/151, 9-13=-168/152, 10-12=-138/123

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
- 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 0-0-0 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 139 lb uplift at joint 1, 97 lb uplift at joint 11, 124 lb uplift at joint 17, 126 Ib uplift at joint 18, 127 lb uplift at joint 19, 106 lb uplift at joint 20, 121 lb uplift at joint 15, 127 lb uplift at joint 14, 126 lb uplift at joint 13 and 106 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



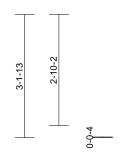


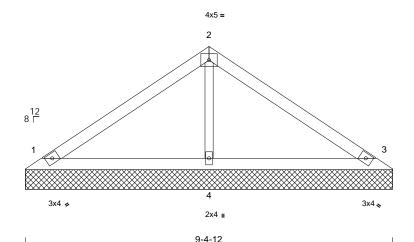
Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	V1	Valley	1	1	Job Reference (optional)	148824421

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Page: 1







Scale = 1:29.5

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	0.25	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 24 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=197/9-4-12, 3=197/9-4-12,

4=371/9-4-12

Max Horiz 1=-74 (LC 4) 1=-37 (LC 8), 3=-46 (LC 9), 4=-14 Max Uplift

(LC 8)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-147/70, 2-3=-146/53

BOT CHORD 1-4=-14/68, 3-4=-14/68

WEBS 2-4=-242/62

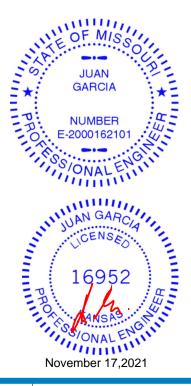
NOTES

FORCES

- 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) 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 37 lb uplift at joint 1, 46 lb uplift at joint 3 and 14 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



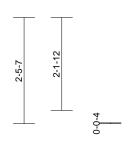


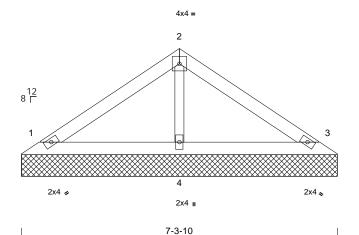
Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	V2	Valley	1	1	Job Reference (optional)	148824422

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Page: 1







Scale = 1:26.6

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=162/7-3-10, 3=162/7-3-10,

4=252/7-3-10

Max Horiz 1=-56 (LC 4)

Max Uplift 1=-36 (LC 8), 3=-43 (LC 9) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-100/51, 2-3=-97/38

BOT CHORD 1-4=-11/47, 3-4=-11/47

WEBS 2-4=-172/43

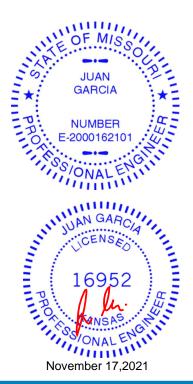
NOTES

FORCES

- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1 and 43 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

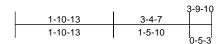




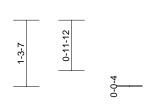
Job	Truss	Truss Type	Qty	Ply	Lot 109 W0	
W0109	V3	Valley	1	1	Job Reference (optional)	148824423

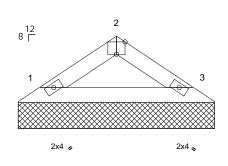
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Page: 1



3x4 =





3-9-10

Scale = 1:22.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 8 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

3-10-6 oc purlins.

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

bracing.

1=131/3-9-10, 3=131/3-9-10 REACTIONS (lb/size)

Max Horiz 1=-25 (LC 6)

Max Uplift 1=-15 (LC 8), 3=-15 (LC 9) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-114/35, 2-3=-114/35

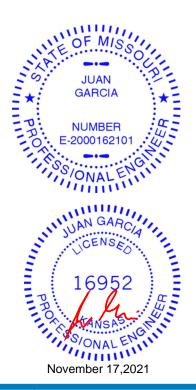
BOT CHORD 1-3=-15/76

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 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 15 lb uplift at joint 1 and 15 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



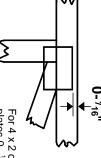


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

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

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

PLATE SIZE



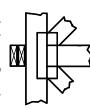
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

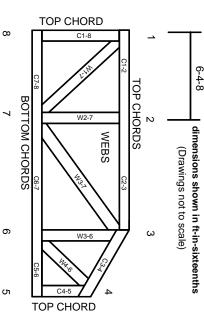
Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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

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

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

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