

RE: H4130 Lot 130 H4 MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Customer: Project Name: H4130

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 88 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I48981315	A1	11/30/2021	21	148981335	D6	11/30/2021
2	I48981316	A2	11/30/2021	22	148981336	E1	11/30/2021
3	148981317	A3	11/30/2021	23	148981337	E2	11/30/2021
4	I48981318	B1	11/30/2021	24	148981338	E3	11/30/2021
5	I48981319	B2	11/30/2021	25	148981339	E4	11/30/2021
6	148981320	B3	11/30/2021	26	148981340	E5	11/30/2021
7	148981321	B4	11/30/2021	27	148981341	E6	11/30/2021
8	148981322	B5	11/30/2021	28	148981342	G1	11/30/2021
9	148981323	B6	11/30/2021	29	148981343	G2	11/30/2021
10	148981324	C1	11/30/2021	30	148981344	G3	11/30/2021
11	148981325	C2	11/30/2021	31	148981345	H1	11/30/2021
12	148981326	C3	11/30/2021	32	148981346	H2	11/30/2021
13	148981327	C4	11/30/2021	33	148981347	H3	11/30/2021
14	148981328	C5	11/30/2021	34	148981348	J1	11/30/2021
15	148981329	C6	11/30/2021	35	148981349	J2	11/30/2021
16	I48981330	D1	11/30/2021	36	148981350	J3	11/30/2021
17	I48981331	D2	11/30/2021	37	148981351	J4	11/30/2021
18	148981332	D3	11/30/2021	38	148981352	J5	11/30/2021
19	148981333	D4	11/30/2021	39	148981353	J6	11/30/2021
20	148981334	D5	11/30/2021	40	148981354	J7	11/30/2021

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.





RE: H4130 - Lot 130 H4

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

Date

11/30/2021

11/30/2021

11/30/2021

11/30/2021

Truss Name

V2

V3

V4

V5

Site Information:

Project Customer: Project Name: H4130

Lot/Block: Subdivision: Address:

Seal#

148981399

148981400

I48981401

148981402

No.

85

86

87

88

City, County: State:

•, ,	- C - C - C - C - C - C - C - C - C - C		
No.	Seal#	Truss Name	Date
41	148981355	J8	11/30/2021
42	148981356	J9	11/30/2021
43	148981357	J10	11/30/2021
44	148981358	J11	11/30/2021
45	148981359	J12	11/30/2021
46	148981360	J13	11/30/2021
47	148981361	J14	11/30/2021
48	148981362	J15	11/30/2021
49	148981363	J16	11/30/2021
50	148981364	J17	11/30/2021
51	148981365	J18	11/30/2021
52	148981366	J19	11/30/2021
53	148981367	J20	11/30/2021
54	148981368	J21	11/30/2021
55	148981369	J22	11/30/2021
56	148981370	J23	11/30/2021
57	148981371	J24	11/30/2021
58	148981372	J25A	11/30/2021
59	148981373	J26A	11/30/2021
60	148981374	J27	11/30/2021
61	148981375	J28	11/30/2021
62	148981376	J29	11/30/2021
63	148981377	J30	11/30/2021
64	148981378	J31	11/30/2021
65	148981379	J32	11/30/2021
66	148981380	J33	11/30/2021
67	148981381	J33A	11/30/2021
68	148981382	J34	11/30/2021
69	148981383	J35	11/30/2021
70	148981384	J36	11/30/2021
71	148981385	J37	11/30/2021
72	148981386	J38	11/30/2021
73	148981387	J39	11/30/2021
74	148981388	J40	11/30/2021
75	148981389	J41	11/30/2021
76	148981390	J42	11/30/2021
77	148981391	J43	11/30/2021
78	148981392	J44	11/30/2021
79	148981393	J45	11/30/2021
80	148981394	LAY2	11/30/2021
81	148981395	LAY3	11/30/2021
82	148981396	LAY4	11/30/2021
83	148981397	LAY5	11/30/2021
84	I48981398	V1	11/30/2021



RE: H4130 Lot 130 H4 MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Customer: Project Name: H4130

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 88 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I48981315	A1	11/30/2021	21	148981335	D6	11/30/2021
2	I48981316	A2	11/30/2021	22	148981336	E1	11/30/2021
3	148981317	A3	11/30/2021	23	148981337	E2	11/30/2021
4	I48981318	B1	11/30/2021	24	148981338	E3	11/30/2021
5	I48981319	B2	11/30/2021	25	148981339	E4	11/30/2021
6	148981320	B3	11/30/2021	26	148981340	E5	11/30/2021
7	148981321	B4	11/30/2021	27	148981341	E6	11/30/2021
8	148981322	B5	11/30/2021	28	148981342	G1	11/30/2021
9	148981323	B6	11/30/2021	29	148981343	G2	11/30/2021
10	148981324	C1	11/30/2021	30	148981344	G3	11/30/2021
11	148981325	C2	11/30/2021	31	148981345	H1	11/30/2021
12	148981326	C3	11/30/2021	32	148981346	H2	11/30/2021
13	148981327	C4	11/30/2021	33	148981347	H3	11/30/2021
14	148981328	C5	11/30/2021	34	148981348	J1	11/30/2021
15	148981329	C6	11/30/2021	35	148981349	J2	11/30/2021
16	I48981330	D1	11/30/2021	36	148981350	J3	11/30/2021
17	148981331	D2	11/30/2021	37	148981351	J4	11/30/2021
18	148981332	D3	11/30/2021	38	148981352	J5	11/30/2021
19	148981333	D4	11/30/2021	39	148981353	J6	11/30/2021
20	148981334	D5	11/30/2021	40	148981354	J7	11/30/2021

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 30, 2021



RE: H4130 - Lot 130 H4

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

Date

11/30/2021

11/30/2021

11/30/2021

11/30/2021

Truss Name

V2

V3

V4

V5

Site Information:

Project Customer: Project Name: H4130

Lot/Block: Subdivision: Address:

Seal#

148981399

148981400

I48981401

148981402

No.

85

86

87

88

City, County: State:

•, ,	- C - C - C - C - C - C - C - C - C - C		
No.	Seal#	Truss Name	Date
41	148981355	J8	11/30/2021
42	148981356	J9	11/30/2021
43	148981357	J10	11/30/2021
44	148981358	J11	11/30/2021
45	148981359	J12	11/30/2021
46	148981360	J13	11/30/2021
47	148981361	J14	11/30/2021
48	148981362	J15	11/30/2021
49	148981363	J16	11/30/2021
50	148981364	J17	11/30/2021
51	148981365	J18	11/30/2021
52	148981366	J19	11/30/2021
53	148981367	J20	11/30/2021
54	148981368	J21	11/30/2021
55	148981369	J22	11/30/2021
56	148981370	J23	11/30/2021
57	148981371	J24	11/30/2021
58	148981372	J25A	11/30/2021
59	148981373	J26A	11/30/2021
60	148981374	J27	11/30/2021
61	148981375	J28	11/30/2021
62	148981376	J29	11/30/2021
63	148981377	J30	11/30/2021
64	148981378	J31	11/30/2021
65	148981379	J32	11/30/2021
66	148981380	J33	11/30/2021
67	148981381	J33A	11/30/2021
68	148981382	J34	11/30/2021
69	148981383	J35	11/30/2021
70	148981384	J36	11/30/2021
71	148981385	J37	11/30/2021
72	148981386	J38	11/30/2021
73	148981387	J39	11/30/2021
74	148981388	J40	11/30/2021
75	148981389	J41	11/30/2021
76	148981390	J42	11/30/2021
77	148981391	J43	11/30/2021
78	148981392	J44	11/30/2021
79	148981393	J45	11/30/2021
80	148981394	LAY2	11/30/2021
81	148981395	LAY3	11/30/2021
82	148981396	LAY4	11/30/2021
83	148981397	LAY5	11/30/2021
84	I48981398	V1	11/30/2021

Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	A1	Hip Girder	1	1	Job Reference (optional)	148981315

NAILED

Wheeler Lumber, Waverly, KS - 66871,

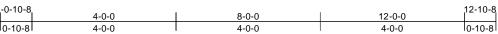
Run: 8.43 S. Oct 11.2021 Print: 8.430 S.Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:05 ID:XpHwfvcjXNLdKxr38zG0BKza5Wo-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

NAILED

12-0-0

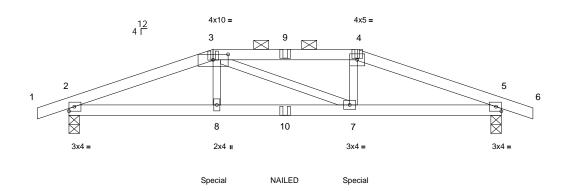
4-1-4

Page: 1



0-10-8 4-0-0

NAILED



7-10-12

3-9-8

Scale = 1:32

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.06	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.10	7-8	>999	360		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	7-8	>999	240	Weight: 35 lb	FT = 20%

LUMBER

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

BRACING

BOT CHORD

FORCES

TOP CHORD Structural wood sheathing directly applied or

4-1-5 oc purlins, except

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

bracing.

REACTIONS (lb/size) 2=899/0-3-8 5=899/0-3-8

Max Horiz 2=-33 (LC 28)

Max Uplift 2=-305 (LC 4), 5=-305 (LC 5)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/6, 2-3=-1827/560, 3-4=-1673/548, 4-5=-1829/560, 5-6=0/6

BOT CHORD

2-8=-496/1652, 7-8=-497/1672,

5-7=-473/1653

WEBS 3-8=-15/315, 3-7=-75/77, 4-7=-24/325

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=50ft; 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 305 lb uplift at joint 2 and 305 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.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 212 lb down and 67 lb up at 4-0-0, and 212 lb down and 67 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

4-1-4

4-1-4

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

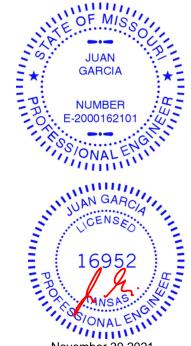
Plate Increase=1.15

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

Concentrated Loads (lb)

Vert: 3=-53 (F), 4=-53 (F), 8=-212 (F), 7=-212 (F),

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



November 30,2021

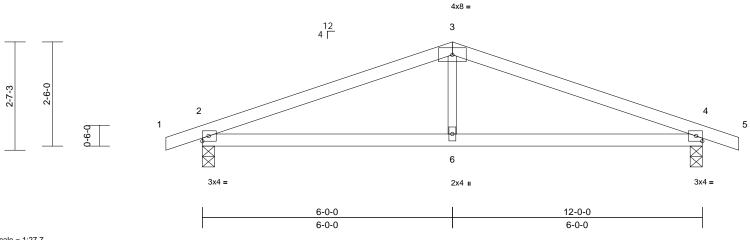


Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	A2	Common	2	1	Job Reference (optional)	148981316

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:07

Page: 1

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



Scale = 1:27.7

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.03	4-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.08	4-6	>999	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	2-6	>999	240	Weight: 32 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-8 oc purlins.

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

bracing.

REACTIONS (lb/size) 2=598/0-3-8, 4=598/0-3-8

Max Horiz 2=-47 (LC 13)

Max Uplift 2=-164 (LC 4), 4=-164 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-914/159, 3-4=-914/158,

4-5=0/6

BOT CHORD 2-6=-100/791, 4-6=-100/791

WEBS 3-6=0/281

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=50ft; 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 164 lb uplift at joint 2 and 164 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

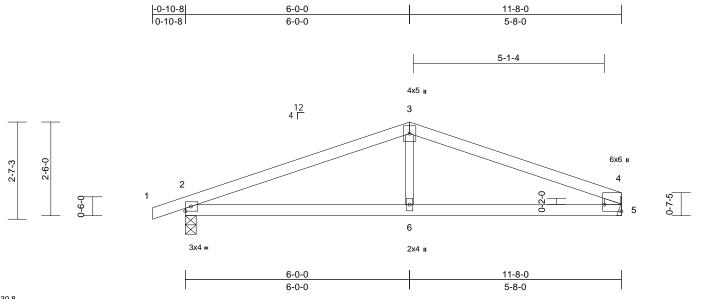




Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	A3	Common	2	1	Job Reference (optional)	148981317

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:07

Page: 1



Scale = 1:30.8

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	0.53	Vert(LL)	-0.05	2-6	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.11	2-6	>999	360			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	5	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	2-6	>999	240	Weight: 30 lb	FT = 20%	

LUMBER

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

2x3 SPF No.2 *Except* 5-4:2x6 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-1-14 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 2=583/0-3-8, 5=505/ Mechanical

Max Horiz 2=50 (LC 8)

Max Uplift 2=-162 (LC 4), 5=-105 (LC 5) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-833/149, 3-4=-816/150,

4-5=-441/136

BOT CHORD 2-6=-95/713, 5-6=-95/713

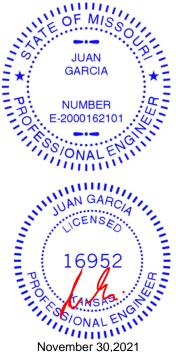
WEBS 3-6=0/243

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=50ft; 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 162 lb uplift at joint 2 and 105 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

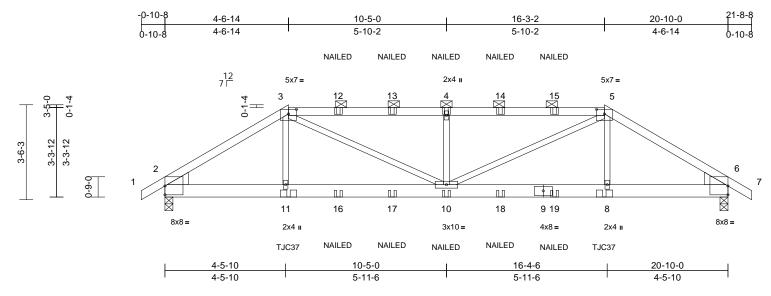


November 30,2021



Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	B1	Hip Girder	1	1	Job Reference (optional)	148981318

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:08 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:42.6

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

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	0.83	Vert(LL)	-0.10	10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.18	10	>999	360		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.13	10	>999	240	Weight: 86 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x6 SPF No.2 2x3 SPF No.2 WEBS Left: 2x6 SP No.2 WEDGE Right: 2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-8-11 oc purlins, except

2-0-0 oc purlins (2-10-4 max.): 3-5. Rigid ceiling directly applied or 8-4-7 oc

BOT CHORD bracing.

REACTIONS (lb/size) 2=1439/0-3-8. 6=1439/0-3-8

Max Horiz 2=-95 (LC 6)

Max Uplift 2=-551 (LC 8), 6=-551 (LC 9) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=0/11, 2-3=-2230/895, 3-4=-2554/1132,

TOP CHORD

4-5=-2554/1132, 5-6=-2230/895, 6-7=0/11

BOT CHORD 2-11=-781/1779, 10-11=-776/1764, 8-10=-686/1764, 6-8=-691/1779

3-11=-152/480, 3-10=-509/947,

WEBS 4-10=-641/463, 5-10=-510/947, 5-8=-153/480

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=50ft; 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 551 lb uplift at joint 2 and 551 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.
- Use Simpson Strong-Tie TJC37 (6 nail 90-150) or equivalent at 4-6-14 from the left end to connect truss (es) to back face of bottom chord, skewed 48.8 deg.to the right, sloping 0.0 deg. down.
- 10) Use Simpson Strong-Tie TJC37 (6 nail, 30-90) or equivalent at 16-3-2 from the left end to connect truss (es) to back face of bottom chord, skewed 48.8 deg.to the left, sloping 0.0 deg. down.
- 11) Fill all nail holes where hanger is in contact with lumber. 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d
- (0.148"x3.25") toe-nails per NDS guidlines.
- 13) 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

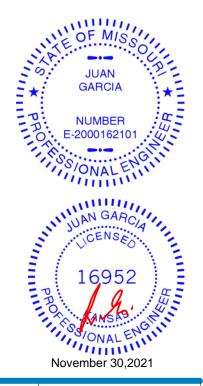
Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

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

Concentrated Loads (lb)

Vert: 11=-280 (B), 10=-23 (B), 4=-42 (B), 8=-280 (B), 12=-42 (B), 13=-42 (B), 14=-42 (B), 15=-42 (B), 16=-23 (B), 17=-23 (B), 18=-23 (B), 19=-23 (B)



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

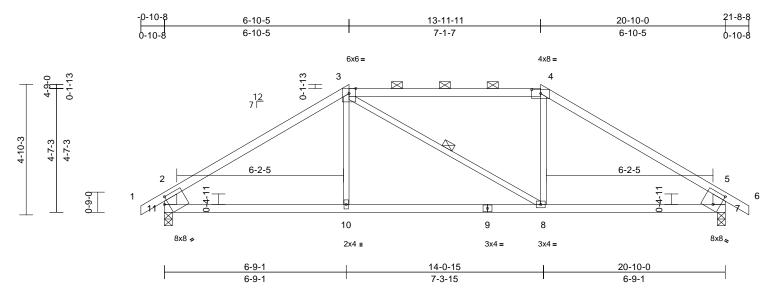
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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



Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	B2	Hip	1	1	Job Reference (optional)	148981319

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:08 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:42.8

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

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	0.81	Vert(LL)	-0.10	8-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.23	8-10	>999	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.09	8-10	>999	240	Weight: 68 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 3-4:2x4 SPF 2100F TOP CHORD

1.8E

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 11-2,7-5:2x6 SP DSS

BRACING

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

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

Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

WEBS 1 Row at midpt 3-8

REACTIONS (lb/size) 7=994/0-3-8, 11=994/0-3-8

Max Horiz 11=-160 (LC 6) Max Uplift 7=-165 (LC 9), 11=-165 (LC 8)

(lb) - Maximum Compression/Maximum

FORCES Tension

1-2=0/39, 2-3=-1260/146, 3-4=-969/200,

4-5=-1260/146, 5-6=0/39, 2-11=-915/214,

5-7=-915/214

BOT CHORD 10-11=-152/972, 8-10=-154/969, 7-8=-50/972

WEBS 3-10=0/274, 3-8=-128/129, 4-8=0/275

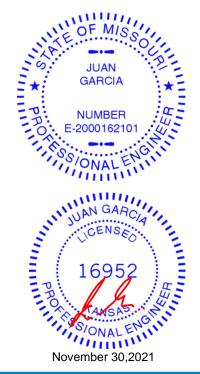
NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 165 lb uplift at joint 11 and 165 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.

LOAD CASE(S) Standard



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

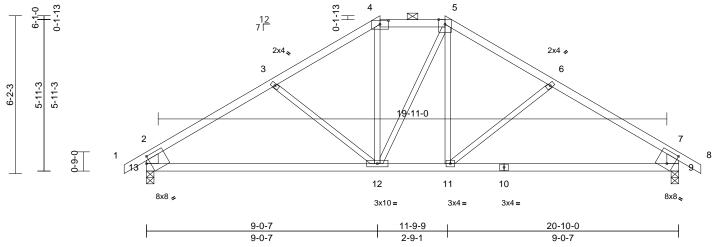
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	В3	Hip	1	1	Job Reference (optional)	148981320

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:09 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:45.1

Plate Offsets (X, Y): [4:0-4-0,0-1-11], [9:0-3-1,0-5-11], [13:0-1-11,0-2-15]

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	0.76	Vert(LL)	-0.16	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.32	9-11	>755	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	11-12	>999	240	Weight: 77 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 13-2,9-7:2x6 SP DSS WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-0 oc purlins, except end verticals, and

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

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

REACTIONS (lb/size) 9=994/0-3-8, 13=994/0-3-8

Max Horiz 13=-200 (LC 6)

Max Uplift 9=-187 (LC 9), 13=-187 (LC 8)

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

Tension

TOP CHORD 1-2=0/39, 2-3=-1249/243, 3-4=-1001/190,

4-5=-820/206, 5-6=-1000/190,

6-7=-1248/243, 7-8=0/39, 2-13=-894/236,

7-9=-893/236

BOT CHORD 12-13=-208/969, 11-12=-14/819,

9-11=-113/969

WEBS 3-12=-239/212, 4-12=-40/251,

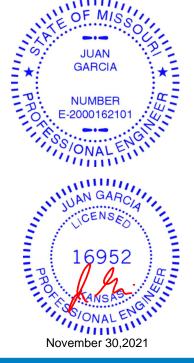
5-12=-112/116, 5-11=-59/257, 6-11=-240/213

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=50ft; 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 187 lb uplift at joint 13 and 187 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



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

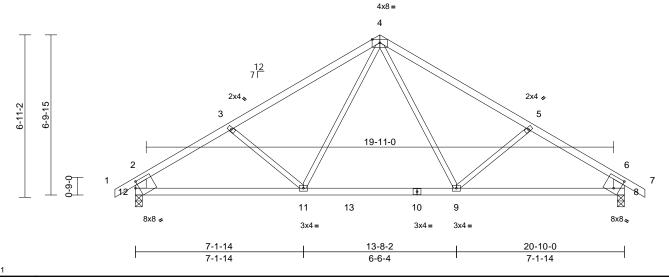
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	B4	Common	1	1	Job Reference (optional)	148981321

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:09 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:49.1

Plate Offsets (X, Y): [8:0-3-1,0-5-11], [12:0-1-11,0-2-15]

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	0.80	Vert(LL)	-0.17	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.26	9-11	>941	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.10	9-11	>999	240	Weight: 74 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 12-2,8-6:2x6 SP DSS WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 8=994/0-3-8, 12=994/0-3-8

Max Horiz 12=-224 (LC 6)

Max Uplift 8=-196 (LC 9), 12=-196 (LC 8) Max Grav 8=1085 (LC 16), 12=1085 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/39, 2-3=-1400/282, 3-4=-1208/238, 4-5=-1209/238, 5-6=-1401/282, 6-7=0/39,

2-12=-949/227, 6-8=-950/227

BOT CHORD 11-12=-281/1258, 9-11=-51/858,

8-9=-169/1091

WEBS 4-9=-83/460, 5-9=-268/255, 4-11=-83/457,

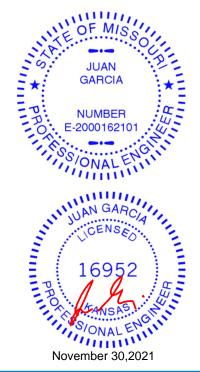
3-11=-268/254

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=50ft; 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 196 lb uplift at joint 12 and 196 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.

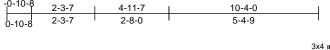
LOAD CASE(S) Standard

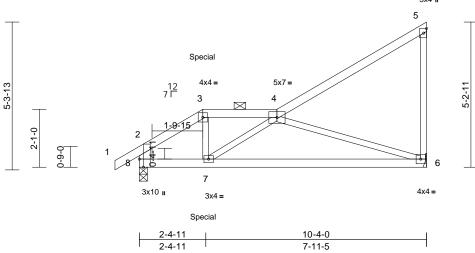




Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	B5	Roof Special Girder	1	1	Job Reference (optional)	148981322

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:09 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:41.4

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	0.46	Vert(LL)	-0.12	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.25	6-7	>485	360		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	6-7	>999	240	Weight: 39 lb	FT = 10%

LUMBER

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

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

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.): 3-4. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

REACTIONS (lb/size) 6=445/ Mechanical 8=528/0-3-8

Max Horiz 8=235 (LC 7)

Max Uplift 6=-159 (LC 8), 8=-182 (LC 8) Max Grav 6=449 (LC 15), 8=528 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/39, 2-3=-583/144, 3-4=-436/139,

4-5=-177/84, 5-6=-188/97, 2-8=-503/152 7-8=-226/457, 6-7=-253/625

BOT CHORD WEBS 3-7=0/281, 4-7=-245/173, 4-6=-644/322

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 159 lb uplift at joint 6 and 182 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.
- 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) 152 lb down and 155 lb up at 2-3-7 on top chord, and 20 lb down and 26 lb up at 2-3-7 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: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 6-8=-20

Concentrated Loads (lb)

Vert: 7=5 (F)



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

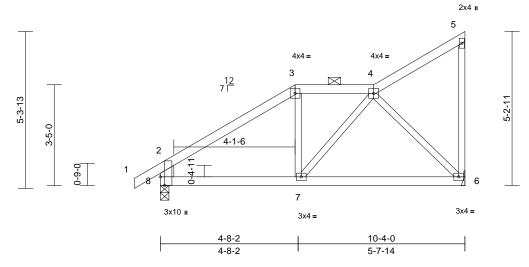


Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	B6	Roof Special	1	1	Job Reference (optional)	148981323

Run: 8.43 S. Oct 11.2021 Print: 8.430 S.Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:10. ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:39.1

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	0.35	Vert(LL)	-0.03	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.07	6-7	>999	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	6-7	>999	240	Weight: 40 lb	FT = 10%

LUMBER

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

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

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.): 3-4.

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

bracing.

REACTIONS (lb/size) 6=446/ Mechanical 8=532/0-3-8

Max Horiz 8=235 (LC 7)

Max Uplift 6=-142 (LC 8), 8=-121 (LC 8) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD 1-2=0/39, 2-3=-522/95, 3-4=-368/126,

4-5=-124/75, 5-6=-112/53, 2-8=-484/151

BOT CHORD 7-8=-117/367, 6-7=-85/293

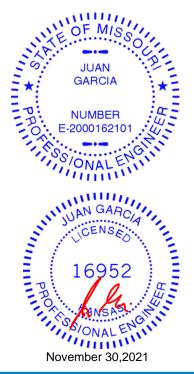
WEBS 3-7=-3/113, 4-7=-46/148, 4-6=-417/178

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 142 lb uplift at joint 6 and 121 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.
- 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

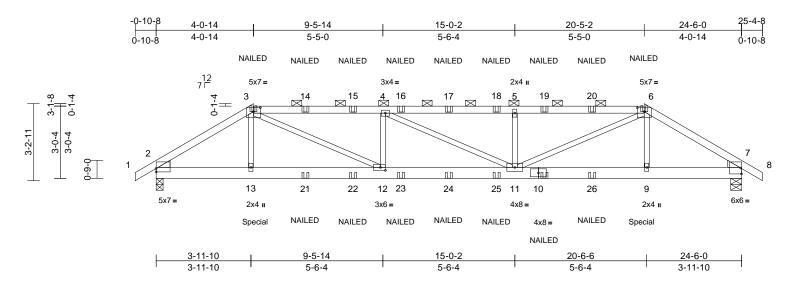




ĺ	Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
	H4130	C1	HIP GIRDER	1	1	Job Reference (optional)	148981324

Run: 8.43 S. Oct 11.2021 Print: 8.430 S.Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:10. ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:48.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.17	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.31	11-12	>931	360		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	11-12	>999	240	Weight: 99 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x6 SPF No.2 2x3 SPF No.2 WEBS WEDGE Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-8-0 oc purlins, except

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

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

bracing, Except: 7-11-2 oc bracing: 11-12.

REACTIONS (lb/size) 2=1523/0-3-8, 7=1532/0-5-8

Max Horiz 2=86 (LC 7)

Max Uplift 2=-369 (LC 8), 7=-372 (LC 9)

FORCES

(lb) - Maximum Compression/Maximum

TOP CHORD

1-2=0/11, 2-3=-2376/617, 3-4=-3187/860,

4-5=-3160/850, 5-6=-3162/851,

6-7=-2355/615, 7-8=0/11

2-13=-544/1899, 12-13=-543/1886, **BOT CHORD** 11-12=-868/3185, 9-11=-458/1856,

7-9=-459/1869

WEBS 3-13=-40/340, 3-12=-428/1486,

4-12=-507/277, 4-11=-50/32, 5-11=-504/268,

6-11=-425/1488, 6-9=-43/345

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=50ft; 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 369 lb uplift at joint 2 and 372 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.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 197 lb down and 89 lb up at 4-0-14, and 197 lb down and 89 lb up at 20-3-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

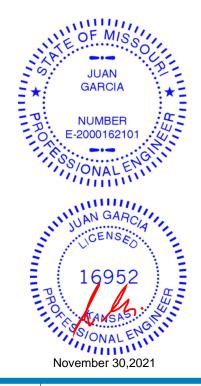
Vert: 1-3=-70, 3-6=-70, 6-8=-70, 2-7=-20 Concentrated Loads (lb)

Vert: 3=-27 (F), 6=-27 (F), 10=-17 (F), 13=-186 (F),

9=-186 (F), 14=-27 (F), 15=-27 (F), 16=-27 (F),

17=-27 (F), 18=-27 (F), 19=-27 (F), 20=-27 (F),

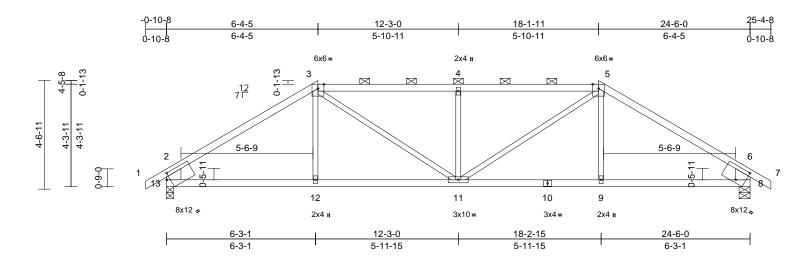
21=-17 (F), 22=-17 (F), 23=-17 (F), 24=-17 (F), 25=-17 (F), 26=-17 (F)





Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	C2	Hip	1	1	Job Reference (optional)	148981325

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:11 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:48.4

Plate Offsets (X, Y): [8:0-4-9,0-6-10], [13:0-1-11,0-2-15]

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	1.00	Vert(LL)	-0.14	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	вс	0.69	Vert(CT)	-0.28	11-12	>999	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.13	9-11	>999	240	Weight: 84 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 13-2,8-6:2x8 SP DSS

WEBS **BRACING**

TOP CHORD Structural wood sheathing directly applied,

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

(3-11-10 max.): 3-5.

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

bracing.

REACTIONS (lb/size) 8=1158/0-5-8, 13=1158/0-3-8

Max Horiz 13=153 (LC 7)

Max Uplift 8=-169 (LC 9), 13=-169 (LC 8)

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

Tension

TOP CHORD 1-2=0/42, 2-3=-1513/220, 3-4=-1677/301, 4-5=-1677/301, 5-6=-1513/220, 6-7=0/42,

2-13=-1057/215, 6-8=-1057/215

BOT CHORD 12-13=-233/1186, 11-12=-235/1185,

9-11=-120/1185, 8-9=-118/1186

WEBS 3-12=0/203, 3-11=-239/679, 4-11=-532/256,

5-11=-239/679, 5-9=0/203

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=50ft; 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 169 lb uplift at joint 13 and 169 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.
- 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

GARCIA NUMBER 2000162101 16952
November 30,202 November 30,2021



Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	C3	Hip	1	1	Job Reference (optional)	148981326

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:11 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

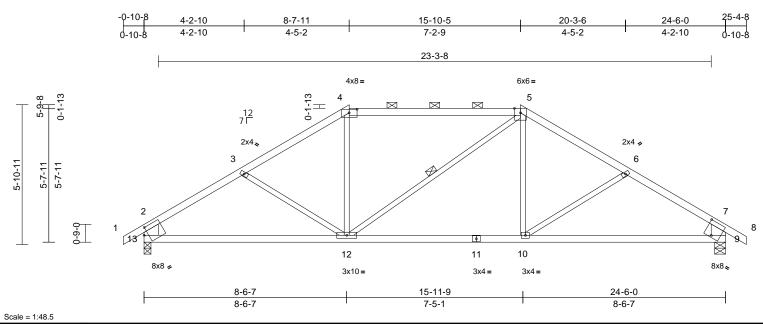


Plate Offsets (X, Y): [4:0-4-0,0-1-11], [9:0-3-13,0-7-0], [13:0-2-1,0-3-6]

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	0.91	Vert(LL)	-0.14	10-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.24	10-12	>999	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	10-12	>999	240	Weight: 88 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 4-5:2x4 SPF

No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 13-2,9-7:2x8 SP DSS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-11 oc purlins, except end verticals, and

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

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

bracing.

WEBS 1 Row at midpt 5-12

REACTIONS (lb/size) 9=1158/0-5-8, 13=1158/0-3-8

Max Horiz 13=193 (LC 7)

Max Uplift 9=-196 (LC 9), 13=-196 (LC 8) Max Grav 9=1191 (LC 2), 13=1184 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/42, 2-3=-1504/259, 3-4=-1383/198,

4-5=-1174/222, 5-6=-1395/198,

6-7=-1516/259, 7-8=0/42, 2-13=-1065/239,

7-9=-1065/239

BOT CHORD 12-13=-224/1237. 10-12=-60/1185.

9-10=-136/1186

WFBS 3-12=-144/188, 4-12=0/322, 5-12=-122/123,

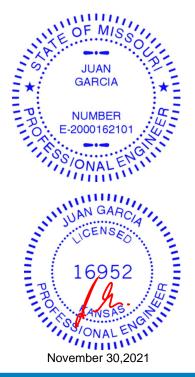
5-10=0/357, 6-10=-145/188

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=50ft; 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 196 lb uplift at joint 13 and 196 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

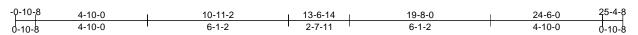




Job	Truss	ss Truss Type Qty Ply Lot 130 H4		Lot 130 H4		
H4130	C4	Hip	1	1	Job Reference (optional)	148981327

Run: 8.43 S. Oct 11.2021 Print: 8.430 S.Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:12 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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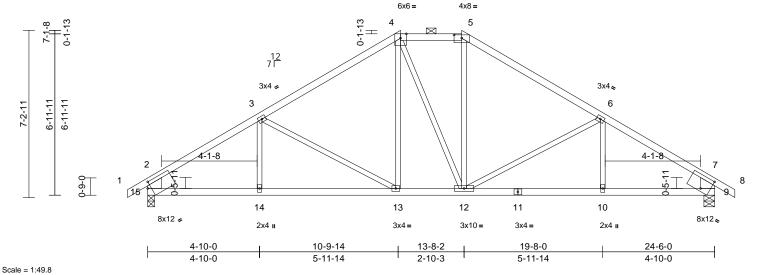


Plate Offsets (X, Y): [5:0-4-0,0-1-11], [9:0-4-9,0-6-10], [15:0-1-11,0-2-15]

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	0.89	Vert(LL)	-0.14	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.27	13-14	>999	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.10	13-14	>999	240	Weight: 97 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 15-2,9-7:2x8 SP DSS WEBS

BRACING

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

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

BOT CHORD bracing.

REACTIONS (lb/size) 9=1158/0-5-8, 15=1158/0-3-8

Max Horiz 15=-233 (LC 6)

Max Uplift 9=-217 (LC 9), 15=-217 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/42, 2-3=-1521/262, 3-4=-1214/228,

4-5=-962/259, 5-6=-1215/228,

6-7=-1521/262, 7-8=0/42, 2-15=-1036/229,

7-9=-1036/229

BOT CHORD 14-15=-254/1205, 13-14=-254/1205,

12-13=-65/961, 10-12=-140/1204,

9-10=-140/1204

WEBS 3-14=0/164, 3-13=-347/214, 4-13=-54/271,

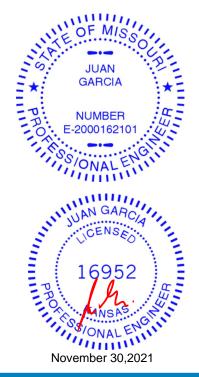
4-12=-157/161, 5-12=-58/275, 6-12=-346/215, 6-10=0/162

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=50ft; 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 217 lb uplift at joint 15 and 217 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 130 H4	
H4130	C5	Common	2	1	Job Reference (optional)	148981328

Run: 8.43 S. Oct 11.2021 Print: 8.430 S.Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:12 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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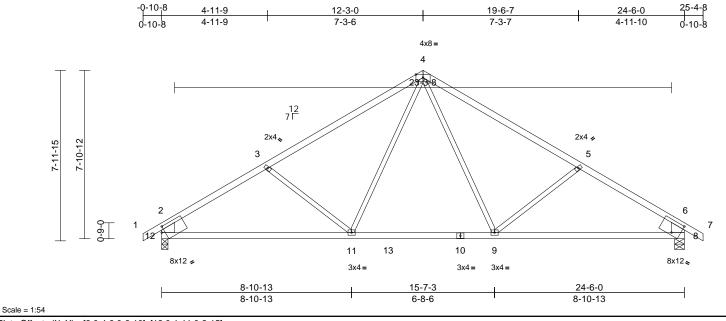


Plate Offsets (X, Y): [8:0-4-9,0-6-10], [12:0-1-11,0-2-15]

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	0.66	Vert(LL)	-0.18	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.29	11-12	>999	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.12	9-11	>999	240	Weight: 87 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 *Except* 12-2,8-6:2x8 SP DSS WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-7-14 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-10-4 oc

bracing.

REACTIONS (lb/size) 8=1158/0-5-8, 12=1158/0-3-8

Max Horiz 12=258 (LC 7)

Max Uplift 8=-226 (LC 9), 12=-226 (LC 8) Max Grav 8=1265 (LC 16), 12=1265 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/42, 2-3=-1649/335, 3-4=-1403/272, 4-5=-1404/272, 5-6=-1650/335, 6-7=0/42,

2-12=-1104/270, 6-8=-1104/270

BOT CHORD 11-12=-332/1484, 9-11=-60/1021,

8-9=-200/1291

WEBS 4-9=-95/528, 5-9=-327/300, 4-11=-95/526,

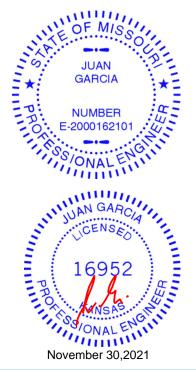
3-11=-327/299

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=50ft; 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 226 lb uplift at joint 12 and 226 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



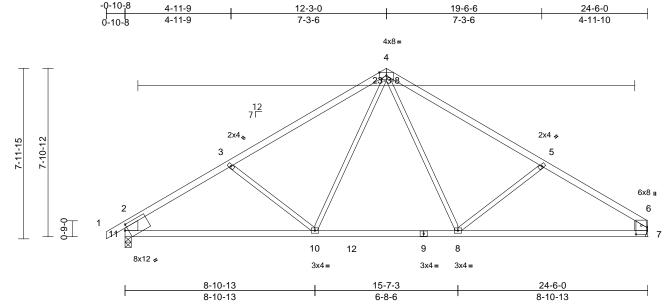




Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	C6	Common	1	1	Job Reference (optional)	148981329

Run: 8.43 S. Oct 11.2021 Print: 8.430 S.Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:13. ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:54

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.23	8-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.35	8-10	>829	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.15	8-10	>999	240	Weight: 86 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 4-6:2x4 SPF

No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 11-2,7-6:2x8 SP DSS

BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals.

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

bracing.

7=1073/ Mechanical. REACTIONS (lb/size)

11=1160/0-3-8

Max Horiz 11=251 (LC 5)

Max Uplift 7=-192 (LC 9), 11=-226 (LC 8)

Max Grav 7=1187 (LC 16), 11=1266 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/42, 2-3=-1654/335, 3-4=-1407/273,

4-5=-1403/272, 5-6=-1661/337,

2-11=-1106/270, 6-7=-1008/231

10-11=-346/1477, 8-10=-73/1010,

7-8=-234/1320 WEBS

4-8=-93/521, 5-8=-356/308, 4-10=-98/537,

3-10=-329/300

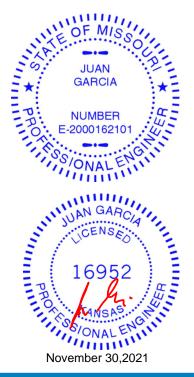
NOTES

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=50ft; 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.

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 226 lb uplift at joint 11 and 192 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



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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 130 H4	
H4130	D1	Roof Special Girder	1	1	Job Reference (optional)	148981330

Run: 8.43 S. Oct 11.2021 Print: 8.430 S.Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:14 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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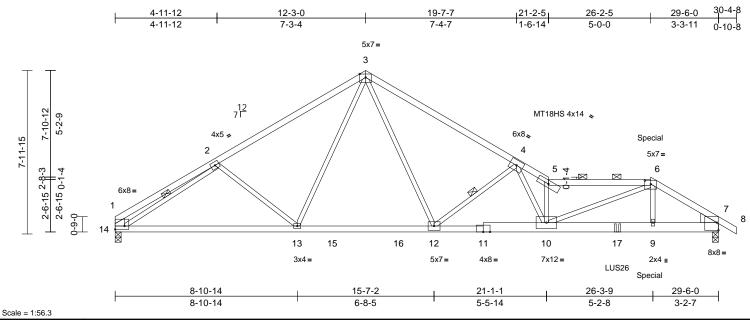


Plate Offsets (X, Y): [1:Edge,0-2-0], [6:0-3-8,0-2-0], [7:Edge,0-4-8]

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	0.62	Vert(LL)	-0.22	10-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.38	10-12	>929	360	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.18	10-12	>999	240	Weight: 119 lb	FT = 10%

LUMBER

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

No.2

BOT CHORD 2x4 SPF 2100F 1.8E *Except* 11-7:2x6 SPF

No 2

WEBS 2x3 SPF No.2 *Except* 14-1:2x6 SPF No.2

WEDGE Right: 2x6 SPF No.2 **BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins, except end verticals, and

2-0-0 oc purlins (3-4-8 max.): 5-6.

BOT CHORD Rigid ceiling directly applied or 9-3-6 oc

bracing. WEBS

4-12, 2-14 1 Row at midpt

REACTIONS (lb/size) 7=1714/0-3-8, 14=1374/0-3-8

Max Horiz 14=-240 (LC 6)

Max Uplift 7=-484 (LC 9), 14=-251 (LC 8)

Max Grav 7=1778 (LC 16), 14=1499 (LC 15)

FORCES

TOP CHORD

(lb) - Maximum Compression/Maximum

Tension

1-2=-591/59, 2-3=-2002/395, 3-4=-2384/530,

4-5=-4672/1018, 5-6=-4156/936,

6-7=-2969/776, 7-8=0/11, 1-14=-394/73 **BOT CHORD**

13-14=-439/1980, 12-13=-166/1506, 10-12=-633/3196, 9-10=-561/2368,

7-9=-565/2398

WEBS 2-13=-333/317, 3-13=-100/563,

3-12=-336/1386, 4-12=-1676/596, 4-10=-400/2092, 5-10=-2443/522,

6-10=-287/1991, 6-9=-88/653,

2-14=-1664/390

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=50ft; 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. 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 251 lb uplift at joint 14 and 484 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) Use Simpson Strong-Tie LUS26 (4-10dx1 1/2 Girder, 3-10d Truss, Single Ply Girder) or equivalent at 24-6-12 from the left end to connect truss(es) to front face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 120 lb down and 187 lb up at 26-2-5 on top chord, and 36 lb down and 15 lb up at 26-1-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) 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, 5-6=-70, 6-8=-70, 7-14=-20 Concentrated Loads (lb)

Vert: 6=-4 (F), 9=-6 (F), 17=-385 (F)







Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	D2	Roof Special	1	1	Job Reference (optional)	I48981331

Run: 8.43 S. Oct 11.2021 Print: 8.430 S.Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:14 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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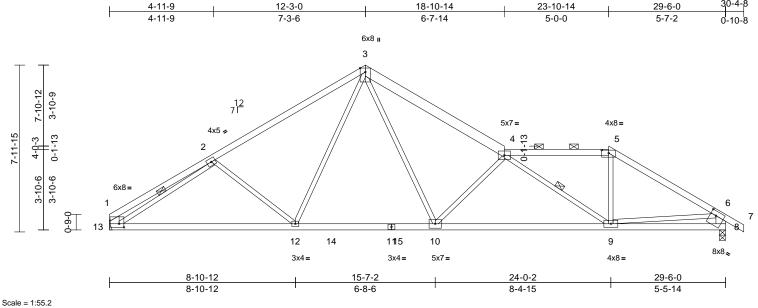


Plate Offsets (X, Y): [1:0-2-12,0-2-0], [5:0-4-0,0-1-1], [8:0-3-4,0-2-8]

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	0.90	Vert(LL)	-0.19	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.38	9-10	>923	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	10	>999	240	Weight: 117 lb	FT = 10%

LUMBER

WEBS

2x4 SPF No.2 *Except* 3-4:2x6 SPF No.2 TOP CHORD

BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 *Except* 13-1,8-6:2x6 SPF

BRACING TOP CHORD

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

(4-1-5 max.): 4-5.

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

bracing, Except: 2-2-0 oc bracing: 9-10.

WEBS 1 Row at midpt 4-9, 2-13

REACTIONS (lb/size) 8=1386/0-3-8, 13=1305/

Mechanical

Max Horiz 13=-199 (LC 6)

Max Uplift 8=-103 (LC 9), 13=-57 (LC 8)

Max Grav 8=1439 (LC 14), 13=1425 (LC 13)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-534/0, 2-3=-1879/130, 3-4=-2193/160, TOP CHORD

4-5=-1678/142, 5-6=-2044/126, 6-7=0/39,

1-13=-360/19. 6-8=-1366/124

BOT CHORD 12-13=-139/1846, 10-12=0/1397

9-10=-87/2550, 8-9=-112/456

2-12=-331/195, 3-12=-27/534, 3-10=-72/1196, 4-10=-1108/210,

4-9=-1072/71, 5-9=0/728, 2-13=-1593/149,

6-9=0/1327

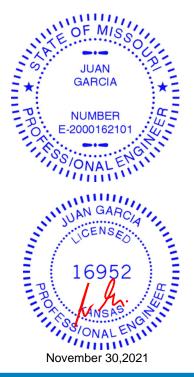
NOTES

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=50ft; 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 57 lb uplift at joint 13 and 103 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.
- 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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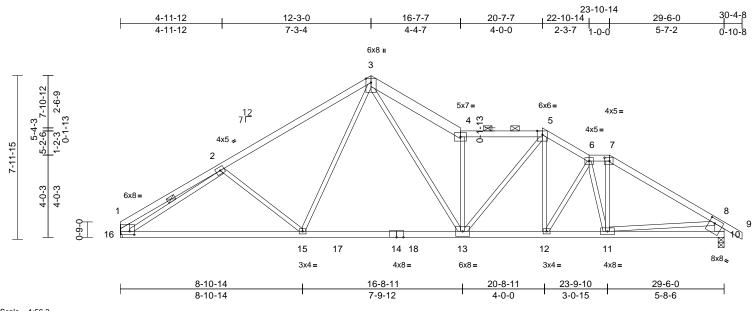
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	D3	Roof Special	1	1	Job Reference (optional)	148981332

Run: 8.43 S. Oct 11.2021 Print: 8.430 S.Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:15 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:56.3

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	0.90	Vert(LL)	-0.22	13-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.36	13-15	>968	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	13-15	>999	240	Weight: 126 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 3-4:2x6 SPF No.2 TOP CHORD

BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 *Except* 16-1,10-8:2x6 SPF WEBS

BRACING

TOP CHORD

BOT CHORD

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

(3-10-5 max.): 4-5, 6-7.

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

bracing.

WEBS 1 Row at midpt 2-16

10=1386/0-3-8, 16=1305/ REACTIONS (lb/size)

Mechanical

Max Horiz 16=-199 (LC 4)

Max Uplift 10=-103 (LC 9), 16=-57 (LC 8)

Max Grav 10=1450 (LC 14), 16=1429 (LC 13)

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

Tension

1-2=-513/3, 2-3=-1897/128, 3-4=-2431/244,

4-5=-2032/154, 5-6=-1938/172,

6-7=-1660/152, 7-8=-1993/138, 8-9=0/39,

1-16=-351/23, 8-10=-1350/134

15-16=-137/1858, 13-15=0/1395,

12-13=-11/1706, 11-12=-42/1823,

10-11=-97/498

WEBS 2-15=-328/197, 3-15=-15/580

3-13=-167/1485, 4-13=-1445/203,

5-13=-23/595, 5-12=-28/320, 6-12=-293/60,

6-11=-705/24, 7-11=0/722, 2-16=-1629/140,

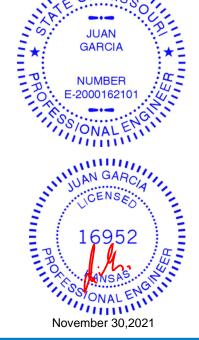
8-11=0/1216

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=50ft; 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
- 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 57 lb uplift at joint 16 and 103 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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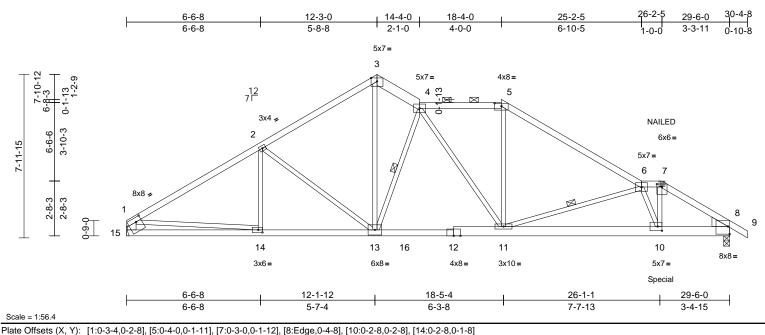
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	D4	Roof Special Girder	1	1	Job Reference (optional)	I48981333

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:15 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.12	11-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.21	10-11	>999	360		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.09	10-11	>999	240	Weight: 130 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 3-4:2x6 SPF No.2, TOP CHORD

5-6:2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except* 12-8:2x6 SPF No.2 WEBS 2x3 SPF No.2 *Except* 15-1:2x6 SPF No.2 WEDGE Right: 2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-5-2 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-15 max.): 4-5, 6-7.

BOT CHORD Rigid ceiling directly applied or 9-9-11 oc

bracing.

WEBS 1 Row at midpt 4-13, 6-11 REACTIONS (lb/size) 8=1744/0-3-8, 15=1355/

Mechanical

Max Horiz 15=-239 (LC 6) Max Uplift 8=-445 (LC 9), 15=-238 (LC 8)

Max Grav 8=1762 (LC 16), 15=1459 (LC 15)

(lb) - Maximum Compression/Maximum

FORCES

TOP CHORD

Tension

1-2=-2119/346, 2-3=-1682/390, 3-4=-1623/385, 4-5=-1671/452,

5-6=-2032/437. 6-7=-2189/562.

7-8=-2656/625, 8-9=0/11, 1-15=-1348/272

BOT CHORD 14-15=-235/621, 13-14=-329/1899,

11-13=-182/1753, 10-11=-564/2547, 8-10=-432/2113

WEBS 2-14=0/175, 2-13=-534/250, 3-13=-301/1367,

4-13=-977/350, 4-11=-133/153, 5-11=-60/677, 6-11=-1030/434,

6-10=-1054/378, 7-10=-332/1549,

1-14=-156/1307

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=50ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 238 lb uplift at joint 15 and 445 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
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) "NAILED" indicates 2-12d (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) 414 Ib down and 113 lb up at 26-1-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 6-7=-70,

7-9=-70, 8-15=-20 Concentrated Loads (lb) Vert: 10=-406 (B)



November 30,2021

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 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 130 H4	
H4130	D5	Hip	1	1	Job Reference (optional)	148981334

Run: 8.43 S. Oct 11.2021 Print: 8.430 S.Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:16 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

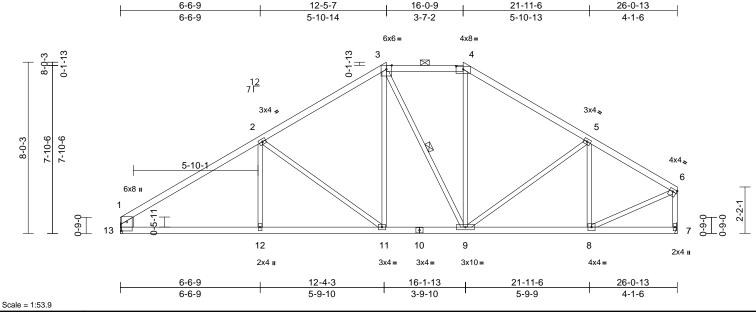


Plate Offsets (X, Y): [1:0-5-0,0-3-0], [4:0-4-0,0-1-1], [6:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.15	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.28	11-12	>999	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.10	11-12	>999	240	Weight: 106 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

2x4 SPF 2100F 1.8E *Except* 10-7:2x4 SPF BOT CHORD

WEBS 2x3 SPF No.2 *Except* 13-1:2x8 SP DSS

BRACING

BOT CHORD

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

2-0-0 oc purlins (5-11-9 max.): 3-4.

Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 3-9

REACTIONS (lb/size) 7=1155/ Mechanical, 13=1155/

Mechanical

Max Horiz 13=260 (LC 7)

Max Uplift 7=-181 (LC 9), 13=-202 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-2=-1630/283, 2-3=-1254/262, TOP CHORD

3-4=-935/255, 4-5=-1192/241, 5-6=-1176/193, 1-13=-1009/231,

6-7=-1122/195

BOT CHORD 12-13=-283/1298, 11-12=-283/1298,

9-11=-95/989, 8-9=-148/975, 7-8=-27/23

2-12=0/184, 2-11=-448/247, 3-11=-96/392, WEBS

3-9=-247/123. 4-9=-53/272. 5-9=-170/164.

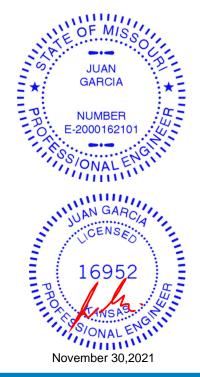
5-8=-351/131, 6-8=-142/1062

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=50ft; 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 202 lb uplift at joint 13 and 181 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.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	D6	Common	2	1	Job Reference (optional)	148981335

Run: 8.43 S. Oct 11.2021 Print: 8.430 S.Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:16 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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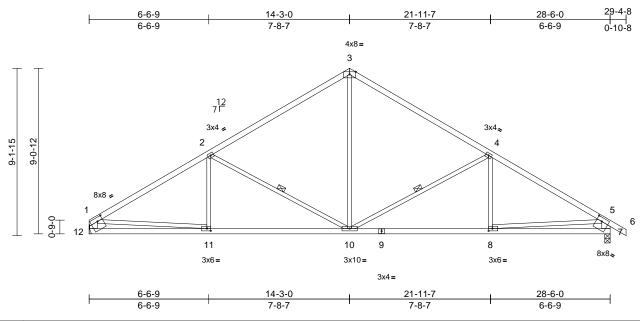


Plate Offsets (X, Y): [1:0-3-8,0-2-8], [7:0-3-8,0-2-8], [8:0-2-8,0-1-8], [11:0-2-8,0-1-8]

										_		
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.08	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.19	10-11	>999	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	10-11	>999	240	Weight: 110 lb	FT = 10%

LUMBER

BRACING

WEBS

Scale = 1:63

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

2x3 SPF No.2 *Except* 12-1,7-5:2x6 SPF

Structural wood sheathing directly applied, TOP CHORD

except end verticals.

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

bracing.

WEBS 4-10, 2-10 1 Row at midpt 7=1341/0-3-8, 12=1260/ REACTIONS (lb/size)

Mechanical

Max Horiz 12=-228 (LC 6)

Max Uplift 7=-81 (LC 9), 12=-66 (LC 8) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-1883/114, 2-3=-1355/142,

3-4=-1353/142, 4-5=-1880/115, 5-6=0/39,

1-12=-1197/98, 5-7=-1278/114

11-12=-174/474, 10-11=-111/1545, BOT CHORD 8-10=-17/1535, 7-8=-64/417

3-10=-4/714, 4-10=-605/170, 4-8=0/219, 2-10=-615/172, 2-11=0/215, 1-11=0/1216,

5-8=0/1123

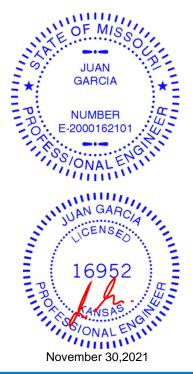
NOTES

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=50ft; 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 66 lb uplift at joint 12 and 81 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 130 H4	
H4130	E1	Hip	1	1	Job Reference (optional)	148981336

15-3-7 | 17-6-4

13-2-9

Wheeler Lumber, Waverly, KS - 66871,

-0-10-8

6-6-9

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:17 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

21-11-8

28-6-0



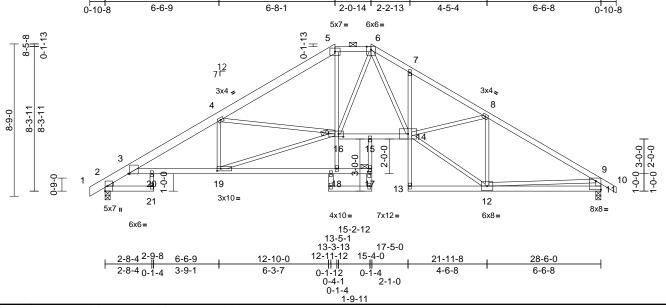


Plate Offsets (X, Y): [3:0-0-13,0-0-1], [11:Edge,0-6-0], [16:0-3-4,0-2-0], [17:0-1-8,0-1-0], [19:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.18	19-20	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.33	19-20	>999	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.31	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.17	19-20	>999	240	Weight: 152 lb	FT = 10%

LUMBER

Scale = 1:66.2

TOP CHORD 2x4 SPF No.2 *Except* 1-5:2x6 SP DSS 2x4 SPF No.2 *Except* 3-17:2x4 SPF 2100F BOT CHORD

1.8E. 7-13:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 11-9:2x4 SPF 2100F

1.8E. 22-24.23-17:2x4 SPF No.2

WEDGE Left: 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-4-1 oc purlins, except end verticals, and

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

bracing. Except:

10-0-0 oc bracing: 17-18

JOINTS 1 Brace at Jt(s): 17, 16

REACTIONS (lb/size)

2=1341/0-3-8, 11=1341/0-3-8

Max Horiz 2=263 (LC 7)

Max Uplift 2=-251 (LC 8), 11=-250 (LC 9)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/12, 2-3=-832/220, 3-4=-2456/441,

TOP CHORD 4-5=-2170/321, 5-6=-1785/344,

6-7=-2551/405, 7-8=-2639/353,

8-9=-1880/315, 9-10=0/36, 9-11=-1274/286

BOT CHORD 2-21=0/0, 3-20=-439/2152, 19-20=-439/2152, 18-19=0/17, 17-18=0/0, 15-16=-84/1745,

14-15=-84/1745, 13-14=0/65, 7-14=-167/146,

12-13=-2/15, 11-12=-223/580

WEBS 20-21=-3/78, 15-17=-28/0, 4-19=-415/185,

4-16=-489/327, 16-18=0/235, 5-16=-32/709, 6-16=-119/259, 6-14=-276/1122,

12-14=-180/1818, 8-14=-48/704,

8-12=-983/172, 9-12=-22/944,

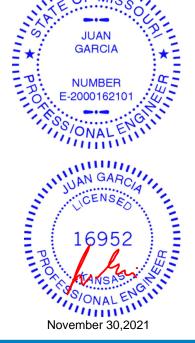
16-19=-460/2226

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=50ft; 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.
- The Fabrication Tolerance at joint 9 = 2%
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 251 lb uplift at joint 2 and 250 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or

LOAD CASE(S) Standard



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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 130 H4	
H4130	E2	Hip	1	1	Job Reference (optional)	148981337

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:17 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

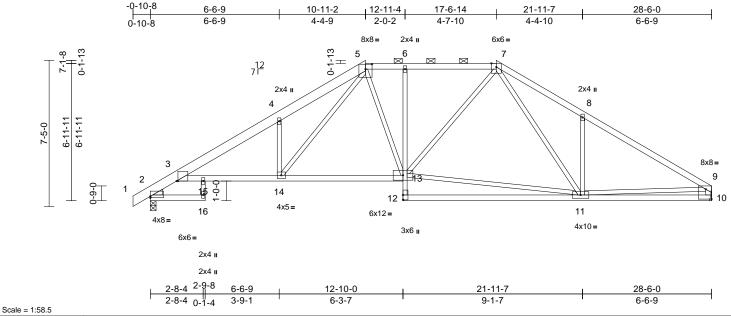


Plate Offsets (X, Y): [2:Edge,0-0-13], [3:0-0-13,0-0-1], [5:0-4-0,0-3-0], [9:Edge,0-6-0]

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	0.59	Vert(LL)	-0.17	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.38	11-12	>885	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.21	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.11	14-15	>999	240	Weight: 136 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 1-5:2x6 SP DSS 2x4 SPF 2100F 1.8E *Except* 2-16:2x4 SPF BOT CHORD

No.2. 6-12:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 10-9:2x4 SPF No.2

WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-2-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-10 max.): 5-7.

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

bracing.

REACTIONS (lb/size) 2=1342/0-3-8, 10=1268/

Mechanical

Max Horiz 2=173 (LC 5)

Max Uplift 2=-65 (LC 8), 10=-50 (LC 9)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/12, 2-3=-834/58, 3-4=-2448/95,

4-5=-2584/222, 5-6=-1573/94, 6-7=-1571/96,

7-8=-1857/188, 8-9=-1901/70, 9-10=-1208/79

2-16=0/0, 3-15=-79/2137, 14-15=-79/2137, **BOT CHORD** 13-14=-29/1472, 12-13=0/162, 6-13=-319/93,

11-12=0/124, 10-11=-79/438

WEBS 15-16=0/79, 4-14=-644/202, 5-14=-164/1091,

5-13=-92/416, 11-13=0/1215, 7-13=-81/472, 7-11=-119/475, 8-11=-411/196, 9-11=0/1113

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=50ft; 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
- 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 65 lb uplift at joint 2 and 50 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 130 H4	
H4130	E3	Hip	1	1	Job Reference (optional)	148981338

Run: 8.43 S. Oct 11.2021 Print: 8.430 S. Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:18 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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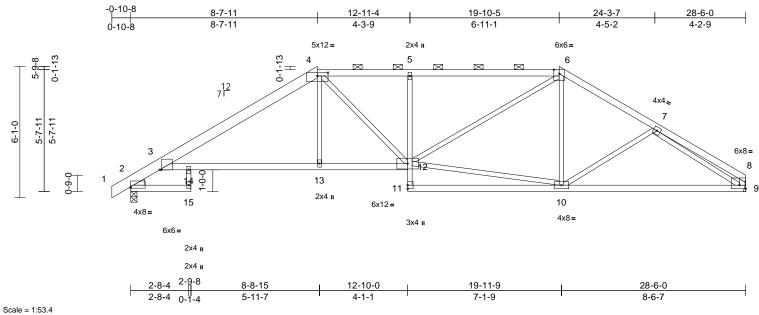


Plate Offsets (X, Y): [2:Edge,0-0-13], [3:0-1-1,0-0-1], [4:0-6-0,0-1-13], [8:Edge,0-2-0]

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	0.61	Vert(LL)	-0.26	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.51	13-14	>665	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.29	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.17	13-14	>999	240	Weight: 123 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP DSS *Except* 4-6:2x4 SPF 2100F

1.8E, 6-8:2x4 SPF No.2

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

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

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

WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-11 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-10 max.): 4-6.

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

bracing.

REACTIONS (lb/size) 2=1342/0-3-8, 9=1268/ Mechanical

Max Horiz 2=141 (LC 5)

Max Uplift 2=-50 (LC 8), 9=-36 (LC 9)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/12, 2-3=-837/40, 3-4=-2128/57, 4-5=-2065/86, 5-6=-2072/90, 6-7=-1727/55,

7-8=-474/12, 8-9=-344/33

2-15=0/0, 3-14=-98/1813, 13-14=-98/1813, **BOT CHORD**

12-13=-96/1819, 11-12=0/115

5-12=-460/154, 10-11=0/135, 9-10=-38/1526 14-15=0/83, 4-13=0/350, 4-12=-169/492,

10-12=0/1313, 6-12=-149/815, 6-10=-31/213,

7-10=-170/141, 7-9=-1448/81

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=50ft; 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 2 and 36 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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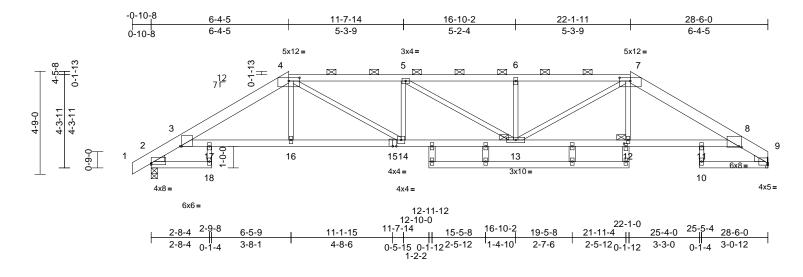
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	E4	Hip	1	1	Job Reference (optional)	I48981339

Run: 8.43 S. Oct 11.2021 Print: 8.430 S. Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:18 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:53.2

Plate Offsets (X, Y):	Plate Offsets (X, Y): [2:Edge,0-0-13], [3:0-0-13,0-0-1], [4:0-6-0,0-1-13], [7:0-6-0,0-1-13], [8:0-1-7,0-0-8], [9:Edge,0-1-1], [12:0-1-8,0-1-0]											
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	0.56	Vert(LL)	-0.27	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.50	13-14	>684	360	1	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.41	9	n/a	n/a	1	
BCDI	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.15	13-14	>999	240	Weight: 131 lb	FT = 10%

L	u	M	IΒ	F	R

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

BOT CHORD 2x4 SPF No.2 *Except* 15-8,15-3:2x4 SPF

2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

19-20,21-12,22-23,24-25:2x4 SPF No.2

Left: 2x4 SP No.3 WEDGE Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-1 oc purlins, except

2-0-0 oc purlins (3-1-4 max.): 4-7. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing. Except:

10-0-0 oc bracing: 13-14, 12-13, 11-12

JOINTS 1 Brace at Jt(s): 12,

13

TOP CHORD

REACTIONS (lb/size) 2=1346/0-3-8, 9=1272/ Mechanical

Max Horiz 2=100 (LC 7)

Max Uplift 2=-45 (LC 5), 9=-40 (LC 4)

FORCES

(lb) - Maximum Compression/Maximum Tension

1-2=0/12, 2-3=-837/51, 3-4=-2433/146,

4-5=-2924/198, 5-6=-2927/167,

6-7=-2928/167, 7-8=-2458/115, 8-9=-796/49 **BOT CHORD** 2-18=0/0, 3-17=-161/2114, 16-17=-161/2114,

14-16=-159/2122, 13-14=-202/2924,

12-13=-29/2152, 11-12=-31/2145,

8-11=-31/2145, 9-10=0/0

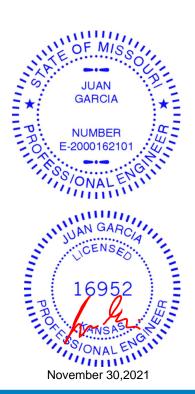
WEBS 17-18=0/79, 10-11=0/83, 4-16=0/287, 7-12=0/294, 5-14=-415/140, 4-14=-165/1012,

5-13=-60/65, 6-13=-378/118, 7-13=-160/987

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=50ft; 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
- 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. 5)
- 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.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 9 and 45 lb uplift at joint 2.
- 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

Design Valid to its 80 mly with win New Commercials. This design is based only upon parameters shown, and is for an individual orusining 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

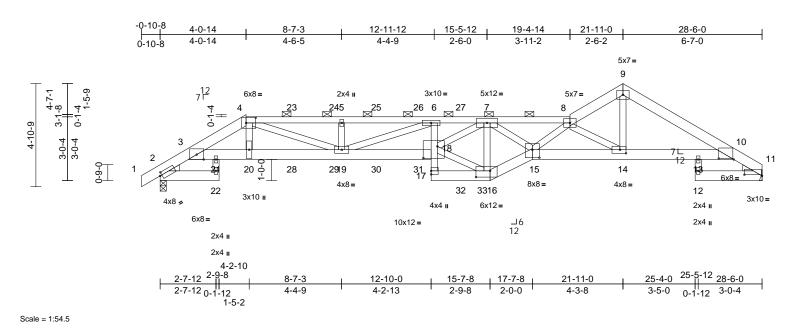
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	E5	Roof Special Girder	1	2	Job Reference (optional)	148981340

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:19 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.42	17	>800	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.74	17	>461	360		Dr.
BCLL	0.0*	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.32	11	n/a	n/a	11111	MISTA
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.42	17	>802	240	Weight: 321 lb	VFD=00%

LUMBER

TOP CHORD 2x6 SPF No.2 *Except* 4-8:2x4 SPF No.2

2x6 SP 2400F 2.0E *Except* 6-17:2x4 SPF BOT CHORD

No 2

WEBS 2x4 SPF No.2 WEDGE Left: 2x4 SP No.3

Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (3-5-6 max.): 4-8.

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

bracing. Except:

10-0-0 oc bracing: 13-14

REACTIONS (lb/size) 2=1971/0-3-8, 11=1676/

Mechanical

Max Horiz 2=129 (LC 26)

Max Uplift 2=-684 (LC 8), 11=-400 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension 1-2=0/17. 2-3=-1391/448. 3-4=-4878/1752.

4-5=-6912/2401, 5-6=-6911/2401, 6-7=-9698/3182, 7-8=-7525/2288,

8-9=-3572/990, 9-10=-3604/989, 10-11=-1146/301

BOT CHORD 2-22=0/0, 3-21=-1549/4295,

20-21=-1549/4295, 19-20=-1584/4387, 18-19=-3254/10014, 17-18=-12/123, 6-18=-250/1028, 16-17=-227/718, 15-16=-1830/5852, 14-15=-2005/6882, 13-14=-788/3104, 10-13=-788/3104,

11-12=0/0

WEBS

21-22=-98/314, 12-13=-37/241, 4-20=-395/1040, 4-19=-848/2685, 5-19=-326/158, 6-19=-3285/944, 16-18=-1692/5422, 7-18=-1582/4662, 7-16=-4242/1361, 7-15=-721/2718, 8-15=-351/955, 9-14=-850/3056, 8-14=-4511/1454

NOTES

2-ply truss to be connected together with 10d 1) (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 this design.

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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.

Refer to girder(s) for truss to truss connections. —
 Provide mechanical connection, (by others) of truss to bearing plate capable of withstanding 400 lb upfift at joint 11 and 684 lb upfift at joint 2 162101
 This truss is designed in accordance with the 2018. International Residential Code sections R50211.1 and R802.10.2 and referenced standard NNS/TEN 1.
 Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or.

or the orientation of the purlin along the top and/or bottom chord.



November 30,2021

Continued on page 2

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



Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	E5	Roof Special Girder	1	2	Job Reference (optional)	148981340

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 29 08:28:19 ID: XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff

Page: 2

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 19 lb up at 4-0-14, 70 lb down and 17 lb up at 6-3-0, 70 lb down and 17 lb up at 8-3-0, 70 lb down and 17 lb up at 10-3-0, and 70 lb down and 17 lb up at 12-3-0, and 100 lb down and 51 lb up at 14-3-0 on top chord, and 250 lb down and 150 lb up at 4-0-14, 74 lb down and 52 lb up at 6-3-0, 74 lb down and 52 lb up at 8-3-0, 74 lb down and 52 lb up at 10-3-0, 74 lb down and 52 lb up at 12-3-0, and 28 lb down at 14-3-0, and 521 lb down and 175 lb up at 15-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-4=-70, 4-8=-70, 8-9=-70, 9-11=-70, 2-22=-20,

18-21=-20, 16-17=-20, 15-16=-20, 13-15=-20, 11-12=-20

Concentrated Loads (lb)

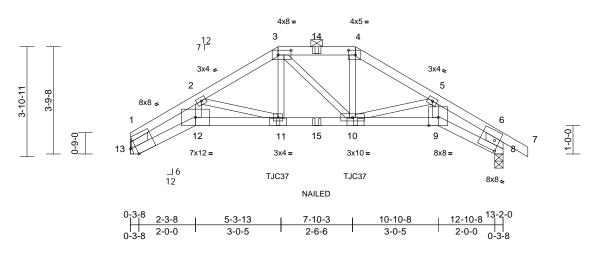
Vert: 4=-4 (B), 20=-228 (B), 23=-4 (B), 24=-4 (B), 25=-4 (B), 26=-4 (B), 27=-27 (B), 28=-59 (B), 29=-59 (B), 30=-59 (B), 31=-59 (B), 32=-17 (B), 33=-501 (B)

Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	E6	Hip Girder	1	1	Job Reference (optional)	I48981341

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10-9-4 13-2-0 2-4-12 2-4-12 2-9-13 2-8-14 2-9-13 2-4-12

NAILED



Scale = 1:40.7

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

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	0.91	Vert(LL)	-0.14	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.24	11-12	>616	360		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.22	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.14	11-12	>999	240	Weight: 50 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 4-7:2x4 SPF 2100F TOP CHORD

1.8E

BOT CHORD 2x4 SPF 2100F 1.8E *Except* 12-9:2x4 SPF No 2

WEBS 2x3 SPF No.2 *Except* 13-1,8-6:2x8 SP

2400F 2.0E

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-11-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-12 max.): 3-4.

BOT CHORD Rigid ceiling directly applied or 8-1-12 oc

bracing.

REACTIONS (lb/size) 8=992/0-3-8, 13=902/ Mechanical

Max Horiz 13=-101 (LC 6)

Max Uplift 8=-292 (LC 9), 13=-275 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=-1969/634, 2-3=-1600/605,

3-4=-1403/553, 4-5=-1585/591,

5-6=-2005/635, 6-7=0/42, 1-13=-1289/413,

6-8=-1472/452

BOT CHORD 12-13=-531/1622, 11-12=-502/1543,

10-11=-517/1462, 9-10=-441/1449,

8-9=-478/1585

2-12=-93/386, 2-11=-177/166,

3-11=-197/522, 3-10=-90/74, 4-10=-189/494,

5-10=-134/140, 5-9=-103/492

NOTES

WEBS

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 275 lb uplift at joint 13 and 292 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 90-150) or equivalent at 5-2-9 from the left end to connect truss(es) to back face of bottom chord, skewed 48.8 deg.to the right, sloping 0.0 deg. down.
- 12) Use Simpson Strong-Tie TJC37 (6 nail, 30-90) or equivalent at 7-11-7 from the left end to connect truss (es) to back face of bottom chord, skewed 48.8 deg.to the left, 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.
- 15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

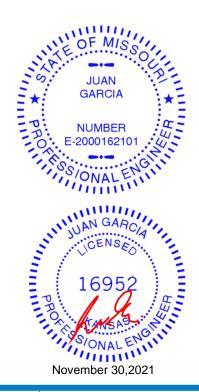
Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 6-7=-70, 12-13=-20, 9-12=-20, 8-9=-20

Concentrated Loads (lb)

Vert: 11=-295 (B), 10=-295 (B), 14=-61 (B), 15=-30

Page: 1





Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	G1	Hip Girder	1	1	Job Reference (optional)	148981342

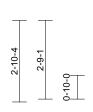
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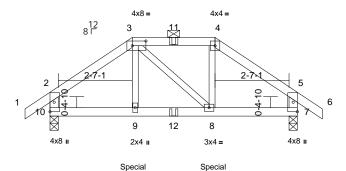
Page: 1



NAILED

Special Special





NAILED

1	2-11-13	5-8-2	8-8-0
	2-11-13	2-8-5	2-11-14

Scale = 1:40.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.02	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.04	8-9	>999	360		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	8-9	>999	240	Weight: 31 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 10-2,7-5:2x4 SPF WEBS

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.): 3-4.

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

bracing.

REACTIONS (lb/size) 7=554/0-3-8, 10=554/0-3-8

Max Horiz 10=103 (LC 7)

Max Uplift 7=-203 (LC 9), 10=-203 (LC 8)

Max Grav 7=582 (LC 16), 10=582 (LC 15) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=0/40, 2-3=-592/225, 3-4=-437/205, TOP CHORD

4-5=-592/224, 5-6=0/40, 2-10=-510/207,

5-7=-511/206

BOT CHORD 9-10=-181/467, 8-9=-178/470, 7-8=-153/449

WEBS 3-9=0/136, 3-8=-35/37, 4-8=0/137

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=50ft; 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 203 lb uplift at joint 10 and 203 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.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 193 lb down and 160 lb up at 2-10-9, and 193 lb down and 160 lb up at 5-9-6 on top chord, and 60 lb down at 2-10-9, and 60 lb down at 5-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20

Concentrated Loads (lb)

Vert: 3=-53 (F), 4=-53 (F), 9=-31 (F), 8=-31 (F), 11=-27 (F), 12=-17 (F)



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

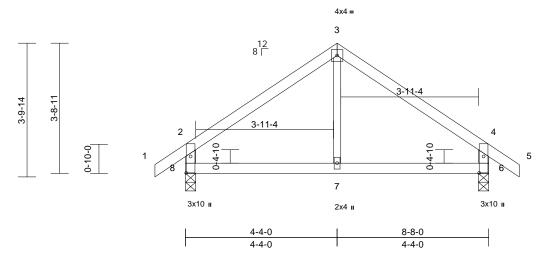
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	G2	Common	3	1	Job Reference (optional)	148981343

Run: 8.43 S. Oct 11.2021 Print: 8.430 S. Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:21 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:32.9

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

							-					
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.01	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	6-7	>999	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.01	7-8	>999	240	Weight: 28 lb	FT = 10%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (lb/size) 6=448/0-3-8, 8=448/0-3-8

Max Horiz 8=-132 (LC 6)

Max Uplift 6=-93 (LC 9), 8=-93 (LC 8) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/40, 2-3=-380/93, 3-4=-380/93,

4-5=0/40, 2-8=-400/127, 4-6=-400/127

BOT CHORD 7-8=-3/256, 6-7=-3/256

WEBS 3-7=0/168

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=50ft; 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 93 lb uplift at joint 8 and 93 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





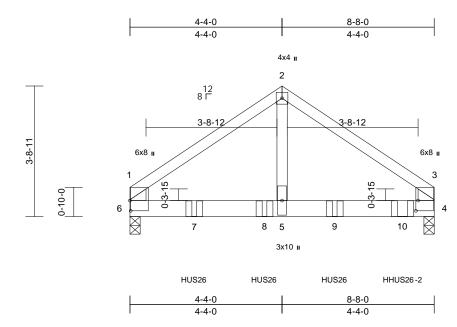


Ply Job Truss Truss Type Qty Lot 130 H4 148981344 2 H4130 G3 Common Girder Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

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Page: 1



Scale = 1:32.8

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

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	0.24	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.05	4-5	>999	360		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	4-5	>999	240	Weight: 75 lb	FT = 10%

LUMBER

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

2x6 SP DSS *Except* 5-2:2x4 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) 4=3540/0-3-8, 6=2607/0-3-8

Max Horiz 6=-87 (LC 6)

Max Uplift 4=-462 (LC 9), 6=-144 (LC 8) (lb) - Maximum Compression/Maximum **FORCES**

Tension

TOP CHORD 1-2=-2566/196, 2-3=-2562/194,

1-6=-1546/136, 3-4=-1540/133

BOT CHORD 5-6=-119/2053, 4-5=-119/2053

WEBS 2-5=-129/2526

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows

staggered at 0-6-0 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=50ft; 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 6 and 462 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.
- Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-0 from the left end to 5-10-0 to connect truss(es) to back face of bottom chord.
- 10) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 7-9-3 from the left end to connect truss(es) to back face of bottom chord.
- 11) 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, 4-6=-20

Concentrated Loads (lb)

Vert: 7=-1248 (B), 8=-1248 (B), 9=-1252 (B),

10=-1660 (B)

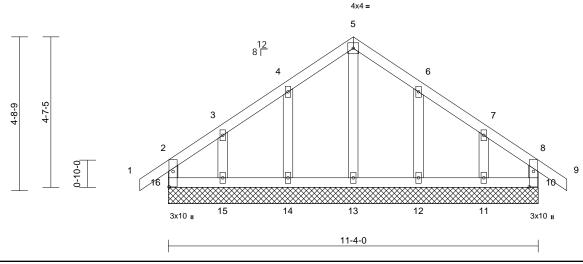




Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	H1	Common Supported Gable	1	1	Job Reference (optional)	148981345

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Scale = 1:35.3

Plate Offsets (X	, Y):	[10:0-5-10,0-1-8], [16:0-5-10,0-1-8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	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	0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 46 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

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

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

bracing.

REACTIONS (lb/size) 10=143/11-4-0, 11=143/11-4-0, 12=196/11-4-0, 13=173/11-4-0,

14=196/11-4-0, 15=143/11-4-0, 16=143/11-4-0

Max Horiz 16=-159 (LC 6)

Max Uplift 10=-36 (LC 8), 11=-103 (LC 9), 12=-90 (LC 9), 14=-90 (LC 8),

15=-108 (LC 8), 16=-56 (LC 4) 10=146 (LC 22), 11=181 (LC 16), Max Grav

12=205 (LC 16), 13=179 (LC 18), 14=204 (LC 15), 15=189 (LC 15),

16=152 (LC 16)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-16=-131/50, 1-2=0/40, 2-3=-90/88, 3-4=-63/94, 4-5=-52/137, 5-6=-40/127,

6-7=-45/85, 7-8=-64/65, 8-9=0/40,

8-10=-131/42

BOT CHORD 15-16=-72/79. 14-15=-72/79. 13-14=-72/79.

12-13=-72/79, 11-12=-72/79, 10-11=-72/79 WFBS 5-13=-140/0, 4-14=-166/117, 3-15=-138/114.

6-12=-166/117, 7-11=-134/112

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=50ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 16, 36 lb uplift at joint 10, 90 lb uplift at joint 14, 108 lb uplift at joint 15, 90 lb uplift at joint 12 and 103 lb uplift at joint 11.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



November 30,2021

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

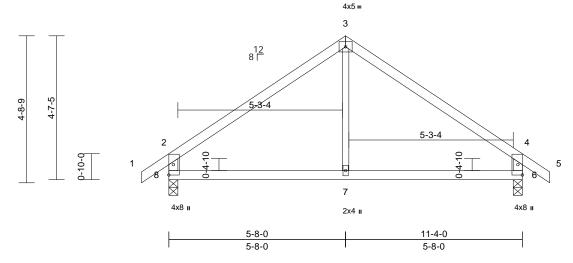


Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	H2	Common	1	1	Job Reference (optional)	148981346

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Page: 1





Scale = 1:36.9

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	0.36	Vert(LL)	-0.02	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.04	7-8	>999	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.02	7-8	>999	240	Weight: 35 lb	FT = 10%

LUMBER

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

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

BRACING

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

bracing.

REACTIONS (lb/size) 6=568/0-3-8, 8=568/0-3-8

Max Horiz 8=159 (LC 7)

Max Uplift 6=-114 (LC 9), 8=-114 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/40, 2-3=-532/123, 3-4=-532/123,

4-5=0/40, 2-8=-515/159, 4-6=-515/159

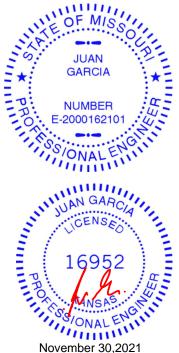
BOT CHORD 7-8=-12/359, 6-7=-12/359

WEBS 3-7=0/235

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=50ft; 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 114 lb uplift at joint 8 and 114 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.

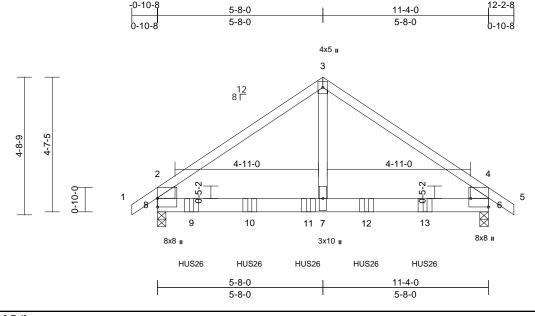
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	H3	Common Girder	1	2	Job Reference (optional)	I48981347

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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	0.50	Vert(LL)	-0.06	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.10	6-7	>999	360		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.04	7-8	>999	240	Weight: 104 lb	FT = 10%

LUMBER

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

2x8 SP DSS *Except* 7-3:2x4 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) 6=3458/0-3-8, 8=3953/0-3-8

Max Horiz 8=128 (LC 7)

Max Uplift 6=-317 (LC 9), 8=-441 (LC 8)

Max Grav 6=3692 (LC 14), 8=3953 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/46, 2-3=-3633/423, 3-4=-3630/425,

4-5=0/46, 2-8=-2261/294, 4-6=-2255/299 **BOT CHORD** 7-8=-276/2948, 6-7=-276/2948

WEBS 3-7=-374/3689

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=50ft; 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 441 lb uplift at joint 8 and 317 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, 4-10d Truss) or equivalent spaced at 4-0-0 oc max. starting at 1-2-0 from the left end to 9-2-0 to connect truss(es) to back face of bottom chord.
- 10) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 5-2-0 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
- 11) 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: 9=-1240 (B), 10=-1135 (B), 11=-1335 (B), 12=-1285 (B), 13=-1285 (B)

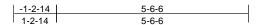




Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J1	Diagonal Hip Girder	2	1	Job Reference (optional)	148981348

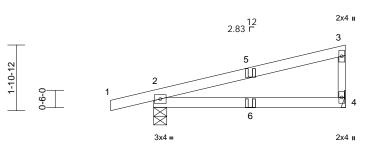
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NAILED

NAILED



NAILED

NAILED

5-6-6

Scale = 1:33.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.05	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.09	2-4	>696	360		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 15 lb	FT = 10%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (lb/size) 2=349/0-4-9, 4=222/ Mechanical

Max Horiz 2=75 (LC 7)

Max Uplift 2=-139 (LC 4), 4=-60 (LC 8) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-79/36, 3-4=-170/92

BOT CHORD 2-4=-24/18

NOTES

FORCES

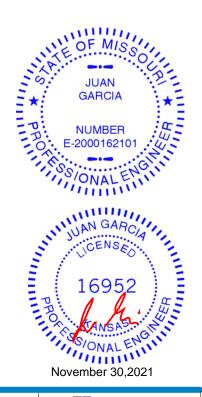
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 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 60 lb uplift at joint 4 and 139 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 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: 1-3=-70, 2-4=-20

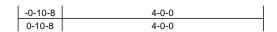


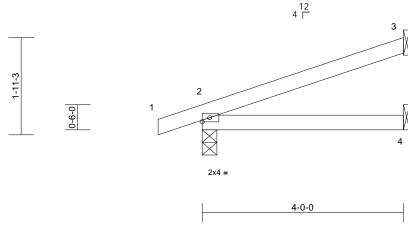


Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J2	Jack-Open	3	1	Job Reference (optional)	148981349

Run: 8.43 S. Oct 11.2021 Print: 8.430 S. Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:23 ID:XpHwfvcjXNLdKxr38zG0BKza5Wo-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scal	<u> </u>	- 1:0	22 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	0.23	Vert(LL)	-0.01	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	вс	0.14	Vert(CT)	-0.02	2-4	>999	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		`					Weight: 11 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 2=252/0-3-8, 3=123/ Mechanical,

4=38/ Mechanical

Max Horiz 2=77 (LC 4)

Max Uplift 2=-89 (LC 4), 3=-77 (LC 8)

Max Grav 2=252 (LC 1), 3=123 (LC 1), 4=76

(LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

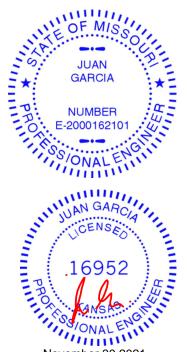
TOP CHORD 1-2=0/6, 2-3=-62/36

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=50ft; 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 77 lb uplift at joint 3 and 89 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



November 30,2021

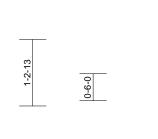


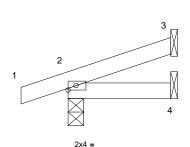
Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J3	Jack-Open	4	1	Job Reference (optional)	148981350

Run: 8.43 S. Oct 11.2021 Print: 8.430 S. Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:23

Page: 1

-0-10-8	1-10-15
0-10-8	1-10-15







1-10-15

Scale = 1:21.4

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	0.05	Vert(LL)	0.00	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	2-4	>999	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 6 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-10-15 oc purlins.

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

bracing.

REACTIONS (lb/size) 2=163/0-3-8, 3=50/ Mechanical,

4=19/ Mechanical

Max Horiz 2=45 (LC 4)

Max Uplift 2=-70 (LC 4), 3=-35 (LC 8)

Max Grav 2=163 (LC 1), 3=50 (LC 1), 4=37

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/6, 2-3=-36/15

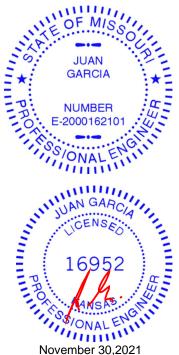
BOT CHORD 2-4=0/0

NOTES

TOP CHORD

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 70 lb uplift at joint 2 and 35 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.

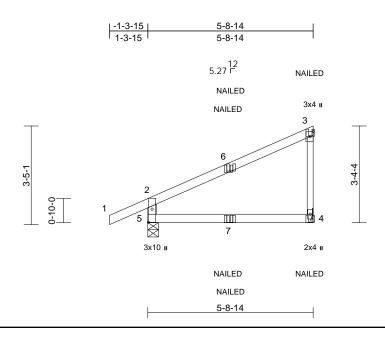
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J4	Diagonal Hip Girder	2	1	Job Reference (optional)	I48981351

Run: 8.43 S. Oct 11.2021 Print: 8.430 S. Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:23 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:40

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	0.45	Vert(LL)	-0.04	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.08	4-5	>835	360		
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)	0.03	4-5	>999	240	Weight: 18 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-14 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 4=311/ Mechanical, 5=363/0-4-7

Max Horiz 5=162 (LC 5)

Max Uplift 4=-162 (LC 5), 5=-99 (LC 8)

Max Grav 4=326 (LC 15), 5=363 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-321/137, 1-2=0/41, 2-3=-171/39,

3-4=-223/164

BOT CHORD 4-5=-43/50

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 99 lb uplift at joint 5 and 162 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.

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

Concentrated Loads (lb)

Vert: 3=-53 (B), 4=-25 (B), 7=2 (F=0, B=1)

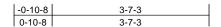


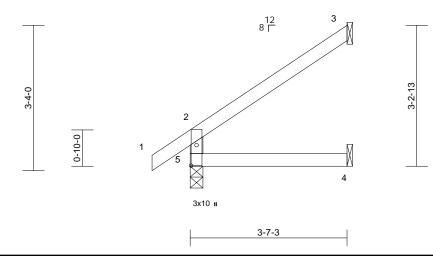
November 30,2021



Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J5	Jack-Open	2	1	Job Reference (optional)	148981352

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 29 08:28:23 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:26.4

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	0.16	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	4-5	>999	360		
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%

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 3-7-3 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=103/ Mechanical, 4=39/

Mechanical, 5=235/0-3-8

Max Horiz 5=124 (LC 8)

Max Uplift 3=-90 (LC 8), 4=-1 (LC 8), 5=-17

(LC 8)

Max Grav 3=115 (LC 15), 4=64 (LC 3), 5=235

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-206/59, 1-2=0/40, 2-3=-93/53

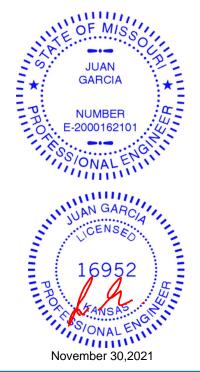
BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 17 lb uplift at joint 5, 90 lb uplift at joint 3 and 1 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



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

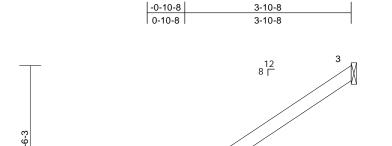


16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J6	Jack-Open	5	1	Job Reference (optional)	148981353

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 29 08:28:24 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



3x10 II 3-10-8

Scale = 1:26.8

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	0.19	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	360		
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)	0.02	4-5	>999	240	Weight: 12 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 3-10-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=112/ Mechanical, 4=43/ Mechanical, 5=246/0-3-8

Max Horiz 5=133 (LC 8)

Max Uplift 3=-96 (LC 8), 4=-1 (LC 8), 5=-17

(LC 8)

Max Grav 3=125 (LC 15), 4=69 (LC 3), 5=246

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-216/62, 1-2=0/40, 2-3=-100/58

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=50ft; 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 17 lb uplift at joint 5, 96 lb uplift at joint 3 and 1 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



November 30,2021

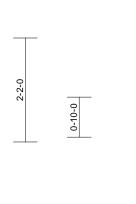


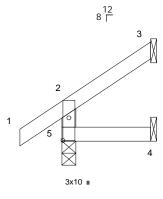
Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J7	Jack-Open	2	1	Job Reference (optional)	148981354

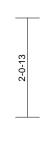
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Page: 1

-0-10-8	1-10-3
0-10-8	1-10-3







1-10-3

Scale = 1:24

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	0.03	Vert(CT)	0.00	4-5	>999	360		
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: 7 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 1-10-3 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=42/ Mechanical, 4=13/

Mechanical, 5=169/0-3-8

Max Horiz 5=71 (LC 8)

Max Uplift 3=-46 (LC 8), 4=-4 (LC 8), 5=-18

(LC 8)

Max Grav 3=51 (LC 15), 4=31 (LC 3), 5=169

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-148/42, 1-2=0/40, 2-3=-50/23

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=50ft; 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 18 lb uplift at joint 5, 4 lb uplift at joint 4 and 46 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



November 30,2021

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

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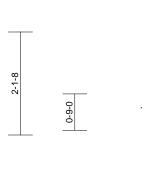
16023 Swingley Ridge Rd Chesterfield, MO 63017

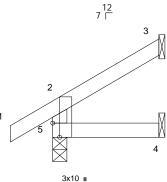
Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J8	Jack-Open	2	1	Job Reference (optional)	148981355

Run: 8.43 S. Oct 11.2021 Print: 8.430 S. Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:25 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1









2-2-5

Scale = 1:23.8

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	0.03	Vert(CT)	0.00	4-5	>999	360		
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%

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

2-2-5 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=70 (LC 8)

Max Uplift 3=-47 (LC 8), 5=-28 (LC 8) Max Grav 3=61 (LC 15), 4=36 (LC 3), 5=179

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

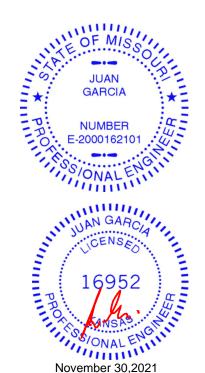
Tension

TOP CHORD 2-5=-157/51, 1-2=0/36, 2-3=-50/25

BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 28 lb uplift at joint 5 and 47 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.



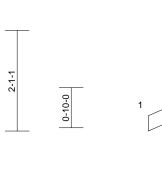


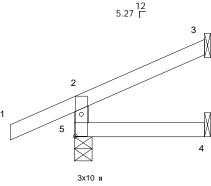
Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J9	Jack-Open Girder	1	1	Job Reference (optional)	148981356

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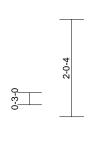
Page: 1







2-8-7



Scale = 1:23.9

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	0.15	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	180		
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							Weight: 9 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 2-8-7 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=23/ Mechanical, 4=3/ Mechanical, 5=126/0-4-7

Max Horiz 5=91 (LC 12)

Max Uplift 3=-64 (LC 12), 4=-8 (LC 19), 5=-92

(LC 12)

Max Grav 3=23 (LC 1), 4=31 (LC 3), 5=126

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-111/114, 1-2=-10/31, 2-3=-35/5

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=50ft; 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 92 lb uplift at joint 5, 64 lb uplift at joint 3 and 8 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) 28 lb down and 12 lb up at -1-3-15, and 28 lb down and 12 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

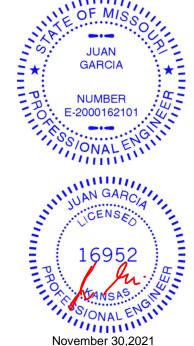
Concentrated Loads (lb)

Vert: 1=-39 (F=-19, B=-19)

Trapezoidal Loads (lb/ft)

Vert: 1=0 (F=35, B=35)-to-2=-38 (F=16, B=16), 2=-5 (F=33, B=33)-to-3=-49 (F=10, B=10), 5=0 (F=10,

B=10)-to-4=-14 (F=3, B=3)



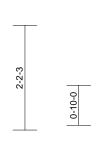


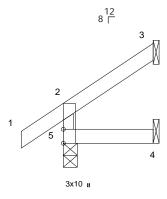
Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J10	Jack-Open	1	1	Job Reference (optional)	148981357

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Page: 1







Scale = 1:24

1-10-8	

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	4-5	>999	360		
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%

LUMBER

LOAD CASE(S) Standard

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 1-10-8 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 3=44/ Mechanical, 4=16/

Mechanical, 5=167/0-3-8

Max Horiz 5=72 (LC 8) 3=-49 (LC 8), 4=-3 (LC 8), 5=-17 Max Uplift

(LC 8) Max Grav 3=54 (LC 15), 4=33 (LC 3), 5=167

(LC 1)

(lb) - Maximum Compression/Maximum

Tension

2-5=-147/41, 1-2=0/38, 2-3=-51/24

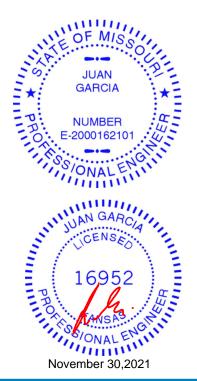
TOP CHORD BOT CHORD 4-5=0/0

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 17 lb uplift at joint 5, 3 lb uplift at joint 4 and 49 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.

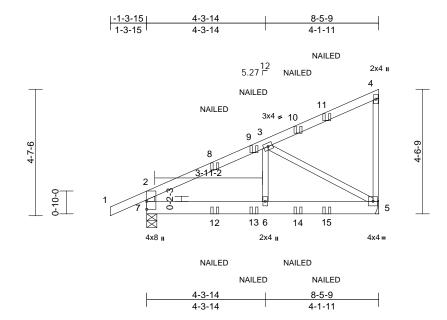




ſ	Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
	H4130	J11	Diagonal Hip Girder	1	1	Job Reference (optional)	148981358

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Page: 1



Scale = 1:42

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)	-0.01	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.02	5-6	>999	360		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.24	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: 36 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=426/ Mechanical, 7=506/0-4-7

Max Horiz 7=218 (LC 7)

Max Uplift 5=-221 (LC 5), 7=-167 (LC 8) Max Grav 5=438 (LC 15), 7=506 (LC 1)

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

Tension

2-7=-426/171, 1-2=0/41, 2-3=-576/173,

TOP CHORD

3-4=-162/69, 4-5=-139/105

BOT CHORD 6-7=-248/420, 5-6=-248/420

WEBS 3-6=0/176, 3-5=-455/260

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 167 lb uplift at joint 7 and 221 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.
- 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,

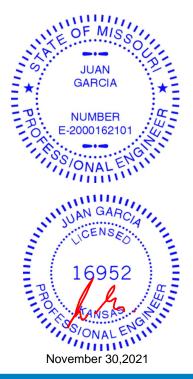
Plate Increase=1.15 Uniform Loads (lb/ft)

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

Concentrated Loads (lb)

Vert: 10=-18 (F), 11=-32 (B), 12=1 (F), 13=-1 (B),

14=-18 (F), 15=-22 (B)

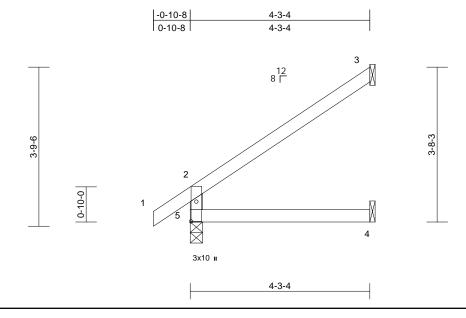




Jo	b	Truss	Truss Type	Qty	Ply	Lot 130 H4	
Н	4130	J12	JACK-OPEN	1	1	Job Reference (optional)	148981359

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Page: 1



Scale = 1:27.4

Plate Offsets	(X, Y):	[5:0-5-10,0-1-8	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	0.24	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.03	4-5	>999	360		
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)	0.02	4-5	>999	240	Weight: 13 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 4-3-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size)

3=125/ Mechanical, 4=49/ Mechanical, 5=263/0-3-8

Max Horiz 5=145 (LC 8)

Max Uplift 3=-106 (LC 8), 5=-17 (LC 8) Max Grav 3=139 (LC 15), 4=77 (LC 3), 5=263

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

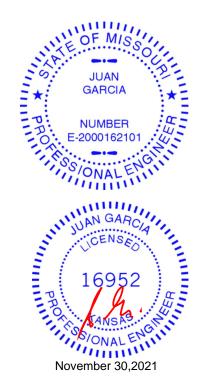
Tension

TOP CHORD 2-5=-231/66, 1-2=0/40, 2-3=-110/64

BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 17 lb uplift at joint 5 and 106 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.



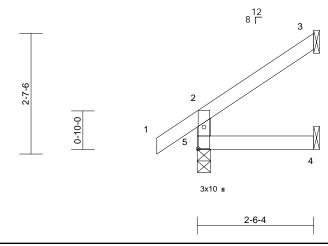


Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J13	JACK-OPEN	1	1	Job Reference (optional)	148981360

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Page: 1

-0-10-8	2-6-4
0-10-8	2-6-4



Scale = 1:24.9

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	0.07	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	4-5	>999	360		
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: 8 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 2-6-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=65/ Mechanical, 4=23/

Mechanical, 5=191/0-3-8

Max Horiz 5=90 (LC 8)

Max Uplift 3=-63 (LC 8), 4=-3 (LC 8), 5=-17

(LC 8)

Max Grav 3=76 (LC 15), 4=43 (LC 3), 5=191

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-168/48, 1-2=0/40, 2-3=-65/35

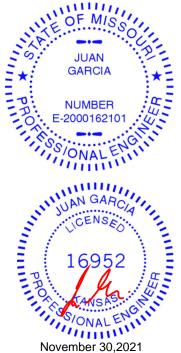
BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 17 lb uplift at joint 5, 63 lb uplift at joint 3 and 3 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



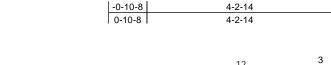
November 30,2021

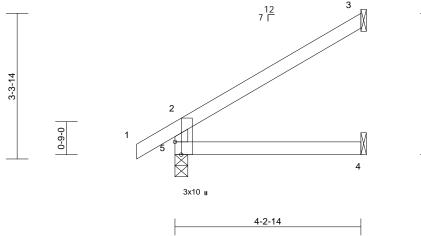


Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J14	Jack-Open	1	1	Job Reference (optional)	148981361

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Page: 1





Scale = 1:26.3

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	0.24	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.03	4-5	>999	360		
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)	0.02	4-5	>999	240	Weight: 12 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 4-2-14 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=124/ Mechanical, 4=48/

Mechanical, 5=262/0-3-8

Max Horiz 5=127 (LC 8)

Max Uplift 3=-94 (LC 8), 5=-32 (LC 8) Max Grav 3=135 (LC 15), 4=76 (LC 3), 5=262

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

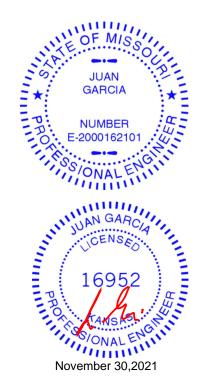
Tension

TOP CHORD 2-5=-230/77, 1-2=0/36, 2-3=-96/56

BOT CHORD 4-5=0/0

NOTES

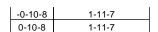
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 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 32 lb uplift at joint 5 and 94 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.

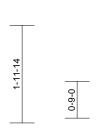


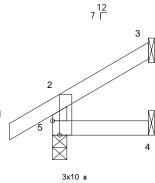


Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J15	Jack-Open	1	1	Job Reference (optional)	148981362

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:27 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1









1-11-7

Scale = 1:23.5

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	0.03	Vert(CT)	0.00	4-5	>999	360		
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%

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 1-11-7 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=46/ Mechanical, 4=15/ Mechanical, 5=173/0-3-8

Max Horiz 5=65 (LC 8)

Max Uplift 3=-43 (LC 8), 5=-28 (LC 8) Max Grav 3=53 (LC 15), 4=32 (LC 3), 5=173

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

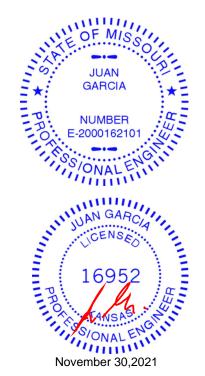
Tension

TOP CHORD 2-5=-151/49, 1-2=0/36, 2-3=-46/22

BOT CHORD 4-5=0/0

NOTES

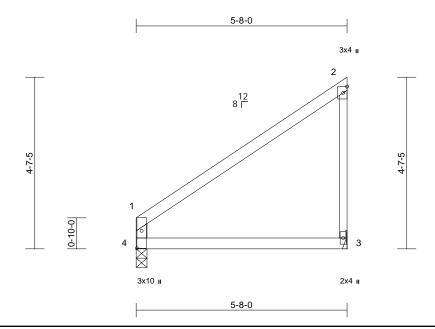
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 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 28 lb uplift at joint 5 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.





Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J16	Jack-Closed	2	1	Job Reference (optional)	148981363

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Scale = 1:30.9

Plate Offsets (X, Y): [4:0-5-10,0-1-8]

	-			l	-							
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	0.46	Vert(LL)	-0.04	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.08	3-4	>791	360		
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)	0.04	3-4	>999	240	Weight: 18 lb	FT = 10%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-8-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 3=244/ Mechanical, 4=244/0-3-8

Max Horiz 4=193 (LC 7)

Max Uplift 3=-100 (LC 8), 4=-25 (LC 8) Max Grav 3=280 (LC 15), 4=244 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

1-4=-203/74, 1-2=-185/108, 2-3=-204/117

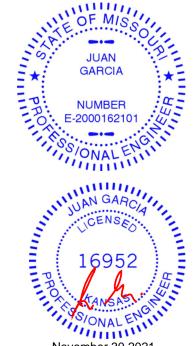
BOT CHORD 3-4=-68/61

NOTES

TOP CHORD

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 25 lb uplift at joint 4 and 100 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

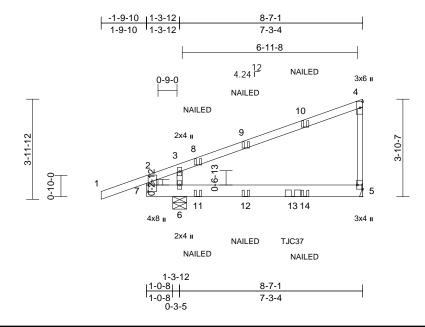


November 30,2021



Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J17	Diagonal Hip Girder	1	1	Job Reference (optional)	148981364

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Scale = 1:45.8

Plate Offsets (X, Y): [5:Edge,0-2-8], [7:0-4-10,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.03	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.07	5-6	>999	360		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.07	5-6	>999	240	Weight: 31 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 7-2:2x6 SPF No.2 WEBS

BRACING TOP CHORD

FORCES

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=354/ Mechanical, 6=650/0-6-10

Max Horiz 6=193 (LC 5)

Max Uplift 5=-178 (LC 8), 6=-297 (LC 4)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-145/130, 1-2=0/47, 2-3=-153/88,

3-4=-201/39, 4-5=-204/128

BOT CHORD 6-7=-25/171, 5-6=-59/60

WEBS 3-6=-648/399

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 178 lb uplift at joint 5 and 297 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.

- 7) Use Simpson Strong-Tie TJC37 (4 nail, 30-90) or equivalent at 5-10-7 from the left end to connect truss (es) to front face of bottom chord, skewed 58.0 deg.to the left, sloping 0.0 deg. down.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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

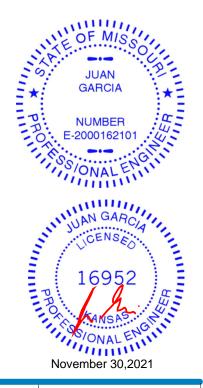
Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

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

Concentrated Loads (lb)

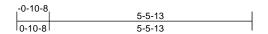
Vert: 12=25 (B), 13=-149 (F), 14=6 (B)

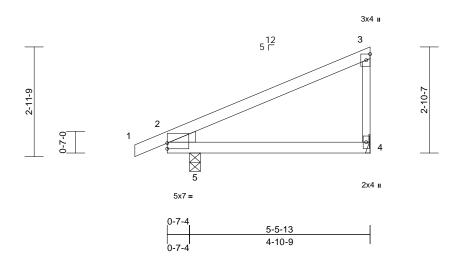




Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J18	Jack-Closed	1	1	Job Reference (optional)	148981365

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:27 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:31.1

Plate Offsets (X, Y): [2:Edge,0-1-14]

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	0.35	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.03	4-5	>999	360		
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-S		Wind(LL)	0.00	4-5	>999	240	Weight: 17 lb	FT = 10%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD 5-5-13 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 4=187/ Mechanical, 5=358/0-3-8

Max Horiz 5=129 (LC 7)

Max Uplift 4=-62 (LC 8), 5=-87 (LC 8) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-141/43, 3-4=-149/87 BOT CHORD 2-5=0/99, 4-5=-38/28

NOTES

FORCES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 62 lb uplift at joint 4 and 87 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



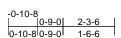
November 30,2021



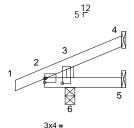
Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J19	Jack-Open	1	1	Job Reference (optional)	I48981366

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Page: 1









3x6 II



Scale = 1:34.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	0.00	5-6	>999	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.00	5-6	>999	240	Weight: 7 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-3-6 oc purlins.

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

bracing.

REACTIONS (lb/size) 4=19/ Mechanical, 5=-20/

Mechanical, 6=262/0-3-8

Max Horiz 6=60 (LC 8)

Max Uplift 4=-26 (LC 8), 5=-20 (LC 1), 6=-81

(LC 4)

4=19 (LC 1), 5=18 (LC 4), 6=262

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-56/33, 3-4=-32/3

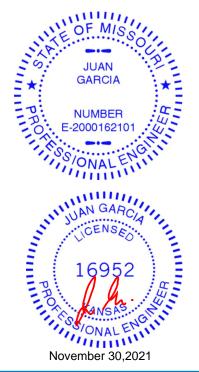
BOT CHORD 2-6=-4/60, 5-6=0/0 3-6=-137/71 WEBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 26 lb uplift at joint 4, 20 lb uplift at joint 5 and 81 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.

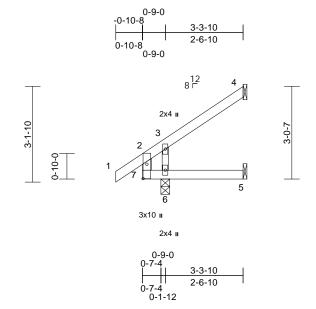
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J20	Jack-Open	1	1	Job Reference (optional)	148981367

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Scale = 1:37.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	0.00	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	0.00	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.00	5-6	>999	240	Weight: 11 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 6-3:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-3-10 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 4=63/ Mechanical, 5=10/ Mechanical, 6=276/0-3-8

Max Horiz 6=115 (LC 8)

Max Uplift 4=-73 (LC 8), 5=-7 (LC 8), 6=-21

(LC 8)

Max Grav 4=77 (LC 15), 5=40 (LC 3), 6=276

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-41/3, 1-2=0/40, 2-3=-118/63, 3-4=-74/35

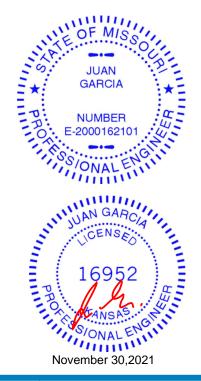
BOT CHORD 6-7=-62/115, 5-6=0/0 3-6=-184/102 WEBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 73 lb uplift at joint 4, 7 lb uplift at joint 5 and 21 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.

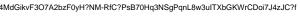
LOAD CASE(S) Standard

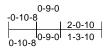




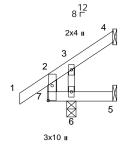
Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J21	Jack-Open	1	1	Job Reference (optional)	148981368

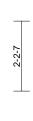
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2x4 II 0-9-0 2-0-10

1-3-10

Scale = 1:36.2

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

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	0.08	Vert(LL)	0.00	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	0.00	5-6	>999	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.00	5-6	>999	240	Weight: 8 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 6-3:2x3 SPF No.2

WEBS **BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-0-10 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 4=8/ Mechanical, 5=-30/ Mechanical, 6=259/0-3-8

Max Horiz 6=76 (LC 8)

Max Uplift 4=-40 (LC 8), 5=-30 (LC 1), 6=-26

(LC 8)

Max Grav 4=23 (LC 6), 5=10 (LC 4), 6=259

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-70/12, 1-2=0/40, 2-3=-58/34, 3-4=-46/11

BOT CHORD 6-7=-48/76, 5-6=0/0

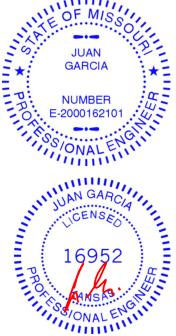
3-6=-122/42 WEBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 40 lb uplift at joint 4, 30 lb uplift at joint 5 and 26 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

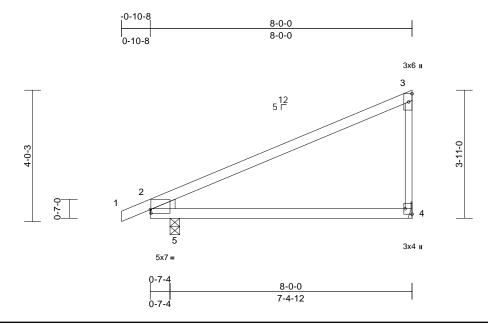
November 30,2021



Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J22	Jack-Closed	2	1	Job Reference (optional)	148981369

Run: 8.43 S. Oct 11.2021 Print: 8.430 S. Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:28 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.2

Plate Offsets (X, Y): [2:0-0-4,0-1-6], [4: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	0.77	Vert(LL)	-0.10	4-5	>843	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.21	4-5	>406	360		
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-S		Wind(LL)	0.05	4-5	>999	240	Weight: 24 lb	FT = 10%

LUMBER

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

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) 4=308/ Mechanical, 5=464/0-3-8

Max Horiz 5=182 (LC 5) Max Uplift 4=-99 (LC 8), 5=-109 (LC 8)

(lb) - Maximum Compression/Maximum

Tension

1-2=0/6, 2-3=-206/52, 3-4=-226/129

BOT CHORD 2-5=0/138, 4-5=-51/46

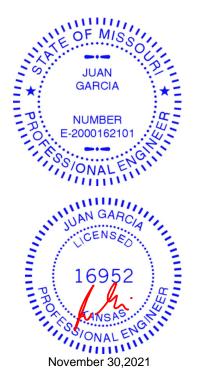
NOTES

FORCES

TOP CHORD

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 99 lb uplift at joint 4 and 109 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



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

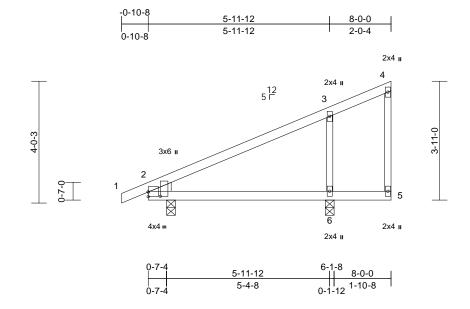
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J23	Jack-Closed	3	1	Job Reference (optional)	148981370

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:29 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:38

Plate Offsets	(X, Y):	[2:Edge,0-1-14],	, [2:0-1-11,0-4-13]
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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	0.41	Vert(LL)	-0.04	2-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.08	2-6	>827	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	2-6	>999	240	Weight: 26 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS WEDGE Left: 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 10-0-0 oc

bracing.

REACTIONS (lb/size) 2=312/0-3-8 6=457/0-3-8

Max Horiz 2=182 (LC 5)

Max Uplift 2=-66 (LC 8), 6=-143 (LC 8) (lb) - Maximum Compression/Maximum

Tension

1-2=0/6, 2-3=-164/83, 3-4=-93/49, 4-5=-16/10

BOT CHORD 2-6=-49/40, 5-6=-49/40

WEBS 3-6=-356/212

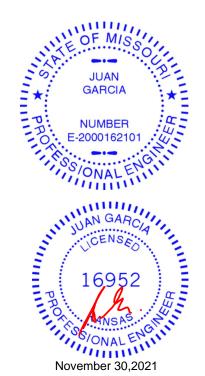
NOTES

FORCES

TOP CHORD

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 66 lb uplift at joint 2 and 143 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.

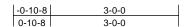
LOAD CASE(S) Standard

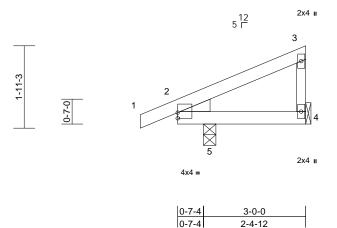




Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J24	Jack-Closed	6	1	Job Reference (optional)	148981371

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Scale = 1:27

Plate Offsets (X	, Y):	[2:Edge,0-1-10]
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	-					-	-					
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	0.00	4-5	>999	360		
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-S		Wind(LL)	0.00	4-5	>999	240	Weight: 10 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (lb/size) 4=51/ Mechanical, 5=271/0-3-8

Max Horiz 5=77 (LC 7)

Max Uplift 4=-27 (LC 5), 5=-86 (LC 4) (lb) - Maximum Compression/Maximum

Tension

1-2=0/6, 2-3=-75/26, 3-4=-72/46

TOP CHORD BOT CHORD 2-5=-4/60, 4-5=-25/21

NOTES

FORCES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 27 lb uplift at joint 4 and 86 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



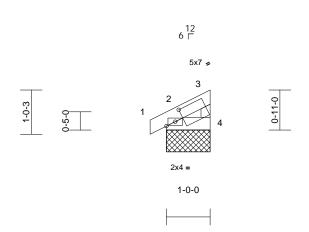
November 30,2021



Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J25A	Jack-Closed Supported Gable	2	1	Job Reference (optional)	148981372

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:29 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:26.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.00	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: 3 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 1-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 2=106/1-0-0, 4=-6/1-0-0

Max Horiz 2=29 (LC 5)

Max Uplift 2=-33 (LC 8), 4=-10 (LC 5) Max Grav 2=106 (LC 1), 4=14 (LC 4)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-2=0/6, 2-3=-38/12, 3-4=-10/15

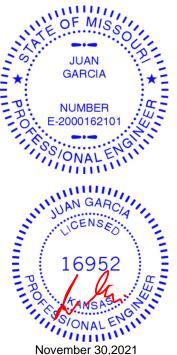
TOP CHORD **BOT CHORD** 2-4=-9/7

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 10 lb uplift at joint 4 and 33 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



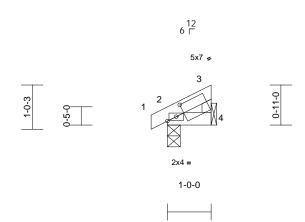


Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J26A	Jack-Closed	2	1	Job Reference (optional)	148981373

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Page: 1





Scale = 1:26.4

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

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	0.01	Vert(LL)	0.00	2	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	2	>999	360		
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: 3 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

1-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 2=74/0-3-8, 4=32/ Mechanical

Max Horiz 2=29 (LC 5)

Max Uplift 2=-20 (LC 8), 4=-12 (LC 8) **FORCES** (lb) - Maximum Compression/Maximum

Tension

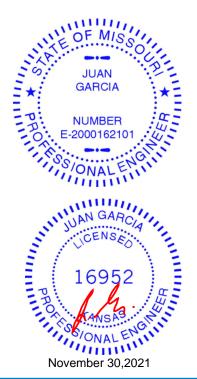
TOP CHORD 1-2=0/5, 2-3=-27/11, 3-4=-24/17

BOT CHORD 2-4=-9/7

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 4 and 20 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

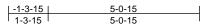


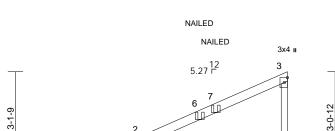
Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J27	Diagonal Hip Girder	2	1	Job Reference (optional)	148981374

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2x4 II

Page: 1





3x10 II

NAILED NAILED 5-0-15

8 9

Scale = 1:38.7

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	0.33	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.05	4-5	>999	360		
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)	0.02	4-5	>999	240	Weight: 16 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-15 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 4=200/ Mechanical, 5=334/0-4-7

Max Horiz 5=147 (LC 5)

Max Uplift 4=-77 (LC 8), 5=-98 (LC 8) **FORCES** (lb) - Maximum Compression/Maximum

Tension

2-5=-296/126, 1-2=0/41, 2-3=-153/36, TOP CHORD

3-4=-145/86

BOT CHORD 4-5=-38/46

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 98 lb uplift at joint 5 and 77 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.
- "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, 2-3=-70, 4-5=-20

Concentrated Loads (lb)

Vert: 8=2 (B), 9=2 (F)



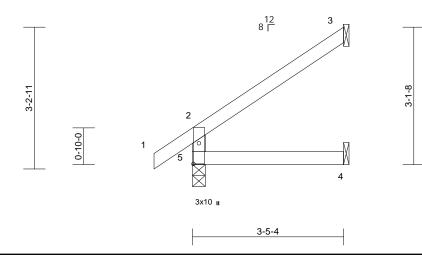


Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J28	Jack-Open	10	1	Job Reference (optional)	148981375

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 29 08:28:30 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:26.2

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	0.14	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	4-5	>999	360		
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 3-5-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=97/ Mechanical, 4=37/

Mechanical, 5=228/0-3-8

Max Horiz 5=83 (LC 8)

Max Uplift 3=-54 (LC 8)

Max Grav 3=106 (LC 13), 4=61 (LC 3), 5=228

(LC 1)

(lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 2-5=-200/27, 1-2=0/40, 2-3=-76/48

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=50ft; 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 54 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.



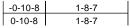


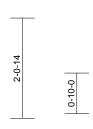
Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J29	Jack-Open	3	1	Job Reference (optional)	148981376

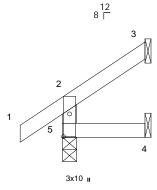
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1-11-10

-0-10-8 1-8-7







1-8-7

Scale = 1:23.8

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	0.03	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: 6 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 1-8-7 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=35/ Mechanical, 4=11/ Mechanical, 5=165/0-3-8

Max Horiz 5=66 (LC 8)

Max Uplift 3=-42 (LC 8), 4=-4 (LC 8), 5=-18

(LC 8)

Max Grav 3=44 (LC 15), 4=28 (LC 3), 5=165

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-144/41, 1-2=0/40, 2-3=-46/20

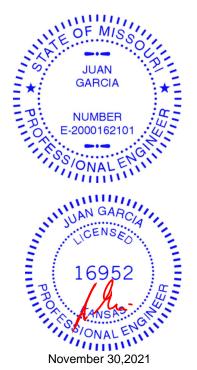
BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 18 lb uplift at joint 5, 4 lb uplift at joint 4 and 42 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

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

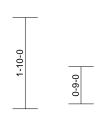


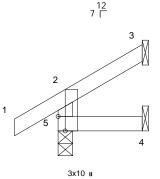
16023 Swingley Ridge Rd Chesterfield, MO 63017

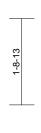
Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J30	Jack-Open	3	1	Job Reference (optional)	148981377

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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	360		
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%

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 1-8-5 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=164/0-3-8

Max Horiz 5=58 (LC 8)

Max Uplift 3=-36 (LC 8), 4=-1 (LC 8), 5=-28

(LC 8)

Max Grav 3=42 (LC 15), 4=27 (LC 3), 5=164

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-144/47, 1-2=0/36, 2-3=-40/17

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=50ft; 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 28 lb uplift at joint 5, 1 lb uplift at joint 4 and 36 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

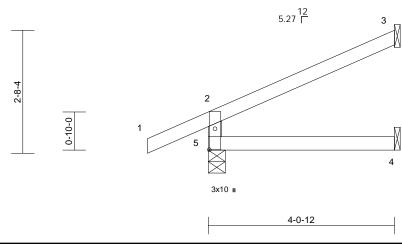
November 30,2021



Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J31	Jack-Open Girder	2	1	Job Reference (optional)	148981378

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2-5-15

Scale = 1:25.2

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	0.17	Vert(LL)	0.02	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	4-5	>999	360		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 12 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 4-0-12 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size)

3=76/ Mechanical, 4=23/ Mechanical, 5=150/0-4-7

Max Horiz 5=119 (LC 12)

Max Uplift 3=-73 (LC 12), 5=-104 (LC 12) 3=76 (LC 1), 4=59 (LC 3), 5=150 Max Grav

(lb) - Maximum Compression/Maximum

Tension TOP CHORD 2-5=-134/139, 1-2=-12/34, 2-3=-50/20

BOT CHORD 4-5=0/0

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 104 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.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 34 lb down and 15 lb up at -1-3-15, and 34 lb down and 15 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=-48 (F=-24, B=-24)

Trapezoidal Loads (lb/ft)

Vert: 1=0 (F=35, B=35)-to-2=-26 (F=22, B=22), 2=-3

(F=34, B=34)-to-3=-71 (F=-1, B=-1), 5=0 (F=10,

B=10)-to-4=-20 (F=0, B=0)

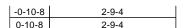


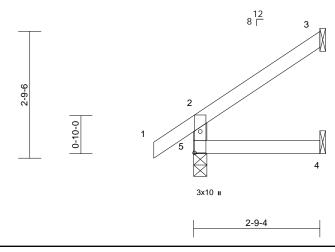
November 30,2021



Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J32	Jack-Open	1	1	Job Reference (optional)	148981379

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Scale = 1:25.3

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	0.08	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	360		
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							Weight: 9 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 2-9-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=74/ Mechanical, 4=27/

Mechanical, 5=201/0-3-8

Max Horiz 5=98 (LC 8)

Max Uplift 3=-69 (LC 8), 4=-3 (LC 8), 5=-17

(LC 8)

Max Grav 3=85 (LC 15), 4=48 (LC 3), 5=201

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-177/50, 1-2=0/40, 2-3=-71/39

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=50ft; 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 17 lb uplift at joint 5, 69 lb uplift at joint 3 and 3 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

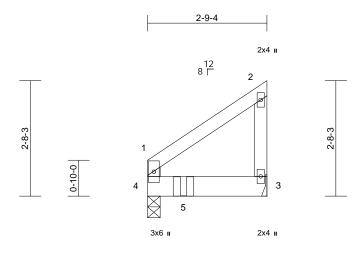


November 30,2021



Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J33	Jack-Closed Girder	1	1	Job Reference (optional)	148981380

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Scale = 1:26.7

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	0.14	Vert(LL)	-0.01	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.01	3-4	>999	360		
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)	0.01	3-4	>999	240	Weight: 11 lb	FT = 10%

HUS26

2-9-4

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-9-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=405/ Mechanical, 4=875/0-3-8

Max Horiz 4=99 (LC 5)

Max Uplift 3=-105 (LC 8), 4=-155 (LC 8) Max Grav 3=465 (LC 15), 4=982 (LC 16)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-97/36, 1-2=-110/41, 2-3=-90/53

BOT CHORD 3-4=-35/59

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 155 lb uplift at joint 4 and 105 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.

- 7) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 0-10-0 from the left end to connect truss(es) to back face of bottom
- 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,

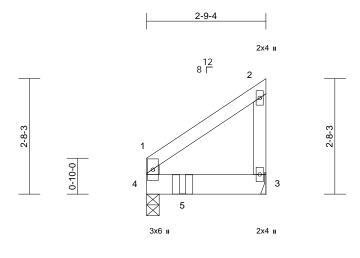
Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-70 3-4=-20 Concentrated Loads (lb) Vert: 5=-1056 (B)





Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J33A	Jack-Closed Girder	1	1	Job Reference (optional)	148981381

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HUS26

2-9-4

Scale = 1:26.7

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	0.14	Vert(LL)	-0.01	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.01	3-4	>999	360		
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)	0.01	3-4	>999	240	Weight: 11 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-9-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=427/ Mechanical, 4=934/0-3-8

Max Horiz 4=99 (LC 5)

Max Uplift 3=-101 (LC 8), 4=-147 (LC 8) Max Grav 3=428 (LC 15), 4=934 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

1-4=-97/36, 1-2=-106/40, 2-3=-90/53

TOP CHORD BOT CHORD 3-4=-35/55

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 147 lb uplift at joint 4 and 101 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.

- 7) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 0-10-0 from the left end to connect truss(es) to front face of bottom
- 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 3-4=-20 Concentrated Loads (lb) Vert: 5=-1138 (F)

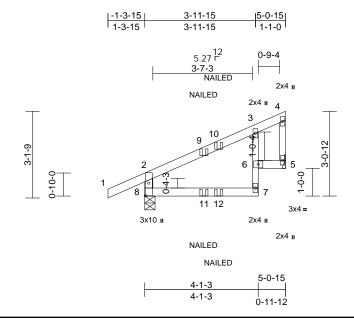


November 30,2021



Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J34	Diagonal Hip Girder	1	1	Job Reference (optional)	148981382

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:32 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:41.6

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

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	0.22	Vert(LL)	-0.01	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.02	7-8	>999	360		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	3	>999	240	Weight: 17 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 *Except* 4-5:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-15 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 5=200/ Mechanical, 8=334/0-4-7

Max Horiz 8=128 (LC 22)

Max Uplift 5=-80 (LC 8), 8=-95 (LC 8) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-299/118, 1-2=0/41, 2-3=-201/30,

3-4=-50/26, 4-5=-66/23

BOT CHORD 7-8=-50/92, 6-7=0/77, 3-6=-76/77, 5-6=-27/35

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 95 lb uplift at joint 8 and 80 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.

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

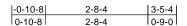
Concentrated Loads (lb) Vert: 11=2 (F), 12=2 (B)

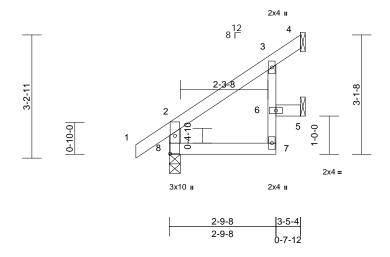




Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J35	Jack-Open	5	1	Job Reference (optional)	148981383

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:32 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:30.2

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	0.09	Vert(LL)	0.00	3	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	0.00	3	>999	360		
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-R		Wind(LL)	0.00	3	>999	240	Weight: 12 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 3-5-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 4=55/ Mechanical, 5=79/ Mechanical, 8=228/0-3-8

Max Horiz 8=83 (LC 8)

Max Uplift 4=-10 (LC 8), 5=-40 (LC 8) Max Grav 4=55 (LC 13), 5=92 (LC 13), 8=228

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-8=-203/19, 1-2=0/40, 2-3=-102/0,

3-4=-10/28

BOT CHORD 7-8=-22/41, 6-7=0/50, 3-6=-47/52, 5-6=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 10 lb uplift at joint 4 and 40 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

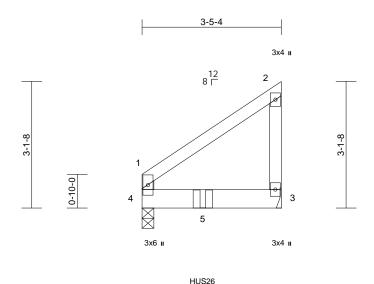


November 30,2021



Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J36	Jack-Closed Girder	1	1	Job Reference (optional)	I48981384

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:32 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:28.4

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	0.20	Vert(LL)	-0.02	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.03	3-4	>999	360		
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)	0.02	3-4	>999	240	Weight: 14 lb	FT = 10%

3-5-4

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=521/ Mechanical, 4=644/0-3-8

Max Horiz 4=97 (LC 5)

Max Uplift 3=-163 (LC 5), 4=-163 (LC 8) Max Grav 3=541 (LC 13), 4=649 (LC 14)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-126/29, 1-2=-125/46, 2-3=-104/47

BOT CHORD 3-4=-37/61

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 163 lb uplift at joint 4 and 163 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.

- 7) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 1-6-0 from the left end to connect truss(es) to back face of bottom
- 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,

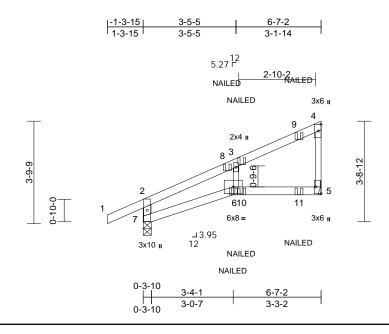
Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-70 3-4=-20 Concentrated Loads (lb) Vert: 5=-882 (B)





Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J37	Diagonal Hip Girder	2	1	Job Reference (optional)	148981385

Run: 8.43 S. Oct 11.2021 Print: 8.430 S. Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:33 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:42.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.12	6	>661	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.21	6	>368	360		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.07	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.17	6	>451	240	Weight: 21 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 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=325/ Mechanical, 7=408/0-3-10

Max Horiz 7=162 (LC 5)

Max Uplift 5=-177 (LC 5), 7=-116 (LC 8) Max Grav 5=336 (LC 15), 7=408 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-353/122, 1-2=0/41, 2-3=-220/35,

3-4=-123/33, 4-5=-207/140

BOT CHORD 6-7=-67/89, 5-6=-69/92

WEBS 3-6=-27/78

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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.
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 7 and 177 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 auidlines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

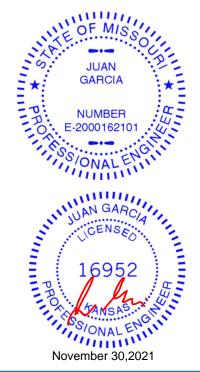
Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

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

Concentrated Loads (lb)

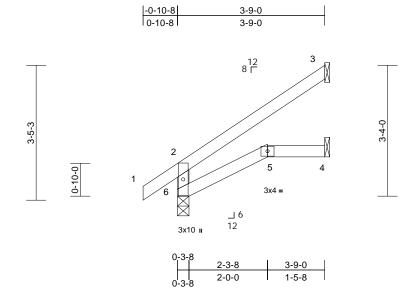
Vert: 6=1 (B), 9=-37 (B), 10=-3 (F), 11=-20 (B)





Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J38	Jack-Open	2	1	Job Reference (optional)	148981386

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Scale = 1:29.3

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)	0.02	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02	5-6	>999	360		
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							Weight: 12 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 3-9-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size)

3=108/ Mechanical, 4=41/ Mechanical, 6=241/0-3-8

Max Horiz 6=128 (LC 8)

3=-95 (LC 8), 4=-1 (LC 8), 6=-15 Max Uplift

(LC 8)

Max Grav 3=122 (LC 15), 4=67 (LC 3), 6=241

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-6=-211/58, 1-2=0/40, 2-3=-97/56

TOP CHORD BOT CHORD 5-6=-33/6, 4-5=0/0

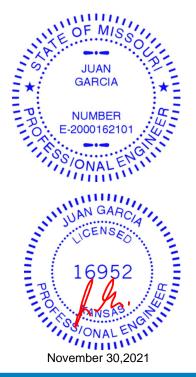
NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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.
- Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 6, 95 lb uplift at joint 3 and 1 lb uplift at joint 4.

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





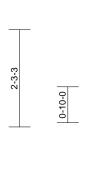


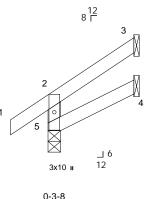
Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J39	Jack-Open	2	1	Job Reference (optional)	148981387

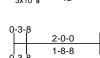
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Page: 1

-0-10-8	2-0-0
0-10-8	2-0-0







Scale = 1:26.8

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	0.04	Vert(CT)	0.00	4-5	>999	360		
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: 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 2-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=48/ Mechanical, 4=15/

Mechanical, 5=174/0-3-8

Max Horiz 5=75 (LC 8)

3=-52 (LC 8), 4=-5 (LC 8), 5=-15 Max Uplift

(LC 8)

Max Grav 3=58 (LC 15), 4=33 (LC 3), 5=174

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-5=-153/42, 1-2=0/40, 2-3=-54/26

TOP CHORD BOT CHORD 4-5=-18/12

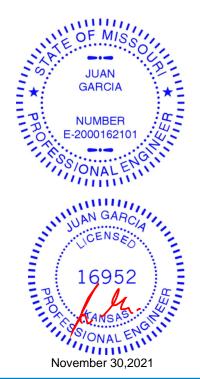
NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 5, 5 lb uplift at joint 4 and 52 lb uplift at joint 3.

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



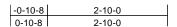


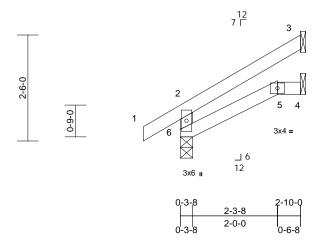


Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J40	Jack-Open	2	1	Job Reference (optional)	148981388

Run: 8.43 S. Oct 11.2021 Print: 8.430 S. Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:34 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:27.2

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	0.08	Vert(LL)	0.00	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	5-6	>999	360		
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)	0.00	5-6	>999	240	Weight: 9 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 2-10-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=77/ Mechanical, 4=27/

Mechanical, 6=203/0-3-8

Max Horiz 6=87 (LC 8)

Max Uplift 3=-64 (LC 8), 6=-27 (LC 8)

Max Grav 3=86 (LC 15), 4=49 (LC 3), 6=203

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-6=-178/57, 1-2=0/36, 2-3=-64/36

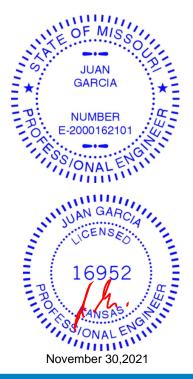
BOT CHORD 5-6=-25/9, 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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.
- Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 6 and 64 lb uplift at joint 3.

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

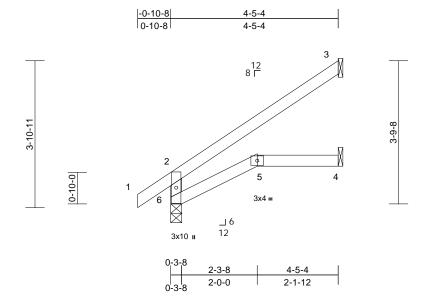






Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J41	Jack-Open	1	1	Job Reference (optional)	148981389

Run: 8.43 S. Oct 11.2021 Print: 8.430 S. Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:35 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:30.5

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	0.27	Vert(LL)	0.03	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.04	5	>999	360		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 14 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 4-5-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size)

3=131/ Mechanical, 4=50/ Mechanical, 6=270/0-3-8

Max Horiz 6=150 (LC 8)

Max Uplift 3=-112 (LC 8), 6=-15 (LC 8)

Max Grav 3=146 (LC 15), 4=80 (LC 3), 6=270

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-6=-236/66, 1-2=0/40, 2-3=-115/68

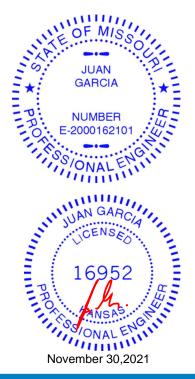
BOT CHORD 5-6=-39/4, 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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.
- 4) Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 6 and 112 lb uplift at joint 3.

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







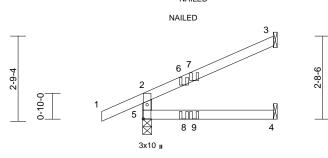
Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J42	Diagonal Hip Girder	2	1	Job Reference (optional)	148981390

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5.27 T

NAILED



NAILED

NAILED

4-3-0

Scale = 1:37.5

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	0.25	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.03	4-5	>999	360		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	4-5	>999	240	Weight: 12 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 4-5-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=119/ Mechanical, 4=41/ Mechanical, 5=297/0-3-8

Max Horiz 5=100 (LC 8)

Max Uplift 3=-81 (LC 8), 5=-76 (LC 8)

3=119 (LC 1), 4=75 (LC 3), 5=297 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-268/104, 1-2=0/41, 2-3=-107/36

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=50ft; 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 76 lb uplift at joint 5 and 81 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.

- "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

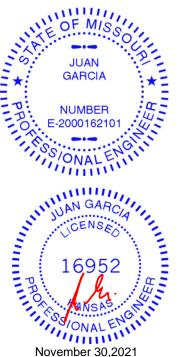
Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

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

Concentrated Loads (lb)

Vert: 8=5 (F), 9=5 (B)



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

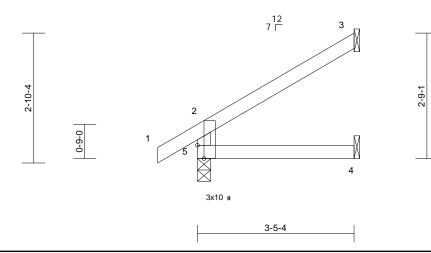


16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J43	Jack-Open	3	1	Job Reference (optional)	148981391

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 29 08:28:35 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:25.3

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	0.14	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	4-5	>999	360		
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 3-5-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=97/ Mechanical, 4=37/

Mechanical, 5=228/0-3-8

Max Horiz 5=105 (LC 8)

Max Uplift 3=-76 (LC 8), 5=-30 (LC 8) Max Grav 3=107 (LC 15), 4=61 (LC 3), 5=228

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

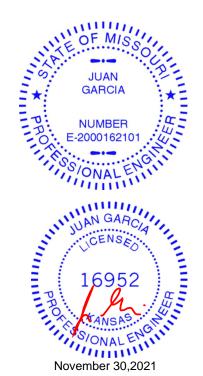
Tension

TOP CHORD 2-5=-200/66, 1-2=0/36, 2-3=-78/44

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=50ft; 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 30 lb uplift at joint 5 and 76 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.



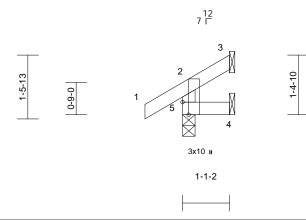


Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J44	Jack-Open	2	1	Job Reference (optional)	148981392

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Page: 1

-0-10-8	1-1-2
0-10-8	1-1-2



Scale = 1:26.8

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	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	5	>999	360		
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	5	>999	240	Weight: 4 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 1-1-2 oc purlins, except end verticals.

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

bracing.

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

5=153/0-3-8

Max Horiz 5=41 (LC 8)

Max Uplift 3=-18 (LC 8), 4=-3 (LC 5), 5=-30

(LC 8)

Max Grav 3=12 (LC 6), 4=15 (LC 3), 5=153

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-133/44, 1-2=0/36, 2-3=-31/5

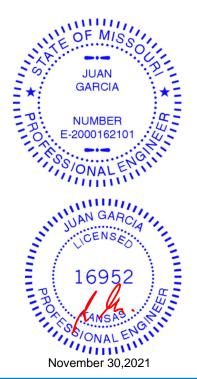
BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 30 lb uplift at joint 5, 3 lb uplift at joint 4 and 18 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



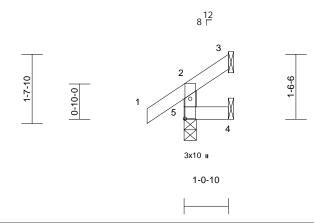


Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	J45	Jack-Open	2	1	Job Reference (optional)	148981393

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Page: 1

-0-10-8 1-0-10 0-10-8 1-0-10



Scale = 1:27.3

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	5	>999	360		
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: 4 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 1-0-10 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

3=1/ Mechanical, 4=-2/ Mechanical, REACTIONS (lb/size) 5=152/0-3-8

Max Horiz 5=46 (LC 8)

Max Uplift 3=-20 (LC 8), 4=-7 (LC 8), 5=-23

(LC 8)

Max Grav 3=13 (LC 6), 4=14 (LC 6), 5=152

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-133/40, 1-2=0/40, 2-3=-34/6

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=50ft; 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 23 lb uplift at joint 5, 7 lb uplift at joint 4 and 20 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



November 30,2021

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 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

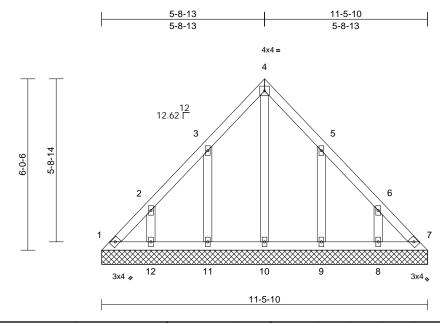
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	LAY2	GABLE	1	1	Job Reference (optional)	I48981394

Run: 8.43 S. Oct 11.2021 Print: 8.430 S. Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:36 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:40.6

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 48 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **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.

REACTIONS (lb/size)

1=68/11-5-10, 7=68/11-5-10, 8=168/11-5-10, 9=190/11-5-10, 10=120/11-5-10, 11=190/11-5-10,

12=168/11-5-10

Max Horiz 1=-174 (LC 4) Max Uplift

1=-67 (LC 6), 7=-39 (LC 7), 8=-142 (LC 9), 9=-160 (LC 9), 11=-161 (LC

8), 12=-141 (LC 8)

Max Grav 1=143 (LC 8), 7=124 (LC 9), 8=196

(LC 16), 9=225 (LC 16), 10=158 (LC 18), 11=226 (LC 15), 12=195

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-215/144, 2-3=-135/99, 3-4=-106/133, 4-5=-88/108, 5-6=-105/58, 6-7=-188/104

1-12=-73/153, 11-12=-73/153,

BOT CHORD 10-11=-73/153, 9-10=-73/153, 8-9=-73/153,

7-8=-73/153

WEBS 4-10=-119/10, 3-11=-186/186

2-12=-154/159, 5-9=-185/185, 6-8=-155/160

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=50ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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 67 lb uplift at joint 1, 39 lb uplift at joint 7, 161 lb uplift at joint 11, 141 lb uplift at joint 12, 160 lb uplift at joint 9 and 142 lb uplift at joint 8.
- 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.

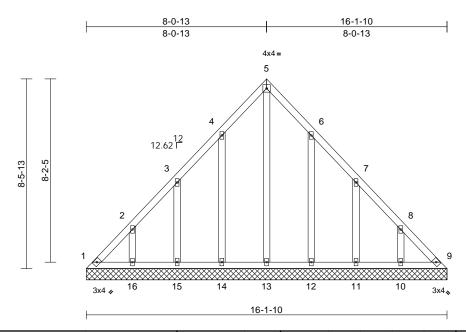
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	LAY3	GABLE	1	1	Job Reference (optional)	I48981395

Run: 8.43 S. Oct 11.2021 Print: 8.430 S. Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:36 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:51.5

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	0.06	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	0.22	Horiz(TL)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 78 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=83/16-1-10, 9=83/16-1-10, 10=187/16-1-10, 11=178/16-1-10, 12=187/16-1-10, 13=121/16-1-10, 14=187/16-1-10, 15=178/16-1-10, 16=187/16-1-10

Max Horiz 1=249 (LC 5)

Max Uplift

1=-104 (LC 6), 9=-62 (LC 7)

10=-156 (LC 9), 11=-152 (LC 9), 12=-152 (LC 9), 14=-154 (LC 8), 15=-152 (LC 8), 16=-156 (LC 8)

Max Grav 1=217 (LC 8), 9=189 (LC 9),

10=219 (LC 16), 11=208 (LC 16), 12=220 (LC 16), 13=218 (LC 9),

14=222 (LC 15), 15=207 (LC 15),

16=219 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-323/209, 2-3=-182/155, 3-4=-145/117,

4-5=-114/190, 5-6=-88/165, 6-7=-101/76, 7-8=-146/97, 8-9=-284/151

1-16=-107/228, 15-16=-107/228,

14-15=-107/228, 13-14=-107/228, 12-13=-107/228, 11-12=-107/228, 10-11=-107/228, 9-10=-107/228

WEBS 5-13=-193/26, 4-14=-182/177,

3-15=-168/177, 2-16=-172/174,

6-12=-180/176, 7-11=-169/178, 8-10=-172/173

NOTES

TOP CHORD

BOT CHORD

- 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=50ft; 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 104 lb uplift at joint 1, 62 lb uplift at joint 9, 154 lb uplift at joint 14, 152 Ib uplift at joint 15, 156 lb uplift at joint 16, 152 lb uplift at joint 12, 152 lb uplift at joint 11 and 156 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.

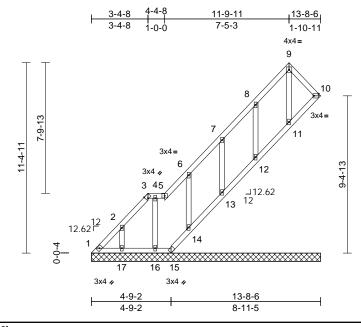
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	LAY4	Lay-In Gable	1	1	Job Reference (optional)	148981396

Run: 8 43 S. Oct 11 2021 Print: 8 430 S.Oct 11 2021 MiTek Industries. Inc. Mon Nov 29 08:28:37 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:68.9

Plate Offsets (X, Y): [3	::0-1-7,Edge], [10:Edge,0-1-8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	-0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 63 lb	FT = 10%

LUMBER

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 3-5. Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 10-11.

REACTIONS (lb/size)

1=55/13-8-6, 10=76/13-8-6, 11=160/13-8-6, 12=187/13-8-6, 13=179/13-8-6, 14=176/13-8-6,

15=4/13-8-6. 16=178/13-8-6. 17=171/13-8-6

Max Horiz 1=473 (LC 8)

1=-91 (LC 6), 10=-388 (LC 8),

11=-65 (LC 6), 12=-151 (LC 8), 13=-171 (LC 8), 14=-82 (LC 8), 15=-96 (LC 6), 16=-129 (LC 8),

17=-197 (LC 8)

Max Grav 1=287 (LC 8), 10=206 (LC 6),

11=362 (LC 8), 12=219 (LC 15), 13=217 (LC 15), 14=180 (LC 15), 15=197 (LC 8), 16=178 (LC 21),

17=218 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-407/177, 2-3=-234/102, 3-4=-143/62, 4-5=-143/62, 5-6=-137/79, 6-7=-77/61,

7-8=-66/119, 8-9=-113/263, 9-10=-131/289

BOT CHORD 1-17=-175/97, 16-17=-175/97

15-16=-175/97, 14-15=-263/155, 13-14=-263/156, 12-13=-263/155, 11-12=-263/155, 10-11=-263/151

WEBS

9-11=-338/103, 8-12=-179/175, 7-13=-175/195, 6-14=-142/93, 4-16=-145/153, 2-17=-175/218

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=50ft; 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 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 1, 388 lb uplift at joint 10, 96 lb uplift at joint 15, 65 lb uplift at joint 11, 151 lb uplift at joint 12, 171 lb uplift at joint 13, 82 lb uplift at joint 14, 129 lb uplift at joint 16 and 197 lb uplift at joint 17.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 11, 12, 13, 14.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

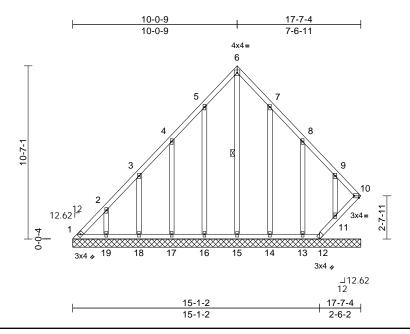
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
H4130	LAY5	Lay-In Gable	1	1	Job Reference (optional)	I48981397

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Scale = 1:70.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	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	0.21	Horiz(TL)	0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 102 lb	FT = 10%

LUMBER

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

BRACING

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

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 6-15

1=84/17-7-4, 10=93/17-7-4, REACTIONS (lb/size) 11=162/17-7-4, 12=-15/17-7-4,

13=176/17-7-4, 14=187/17-7-4, 15=120/17-7-4. 16=186/17-7-4.

17=180/17-7-4, 18=179/17-7-4, 19=187/17-7-4

Max Horiz 1=304 (LC 5)

1=-135 (LC 6), 10=-185 (LC 7),

11=-134 (LC 9), 12=-215 (LC 9), 13=-164 (LC 9), 14=-147 (LC 9),

16=-150 (LC 8), 17=-155 (LC 8), 18=-149 (LC 8), 19=-157 (LC 8)

Max Grav

1=308 (LC 8), 10=395 (LC 9), 11=185 (LC 16), 12=127 (LC 7)

13=208 (LC 16), 14=220 (LC 16), 15=225 (LC 9), 16=221 (LC 15),

17=209 (LC 15), 18=209 (LC 15), 19=219 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-447/253, 2-3=-306/199, 3-4=-170/145,

> 4-5=-141/123, 5-6=-109/197, 6-7=-89/171, 7-8=-110/96, 8-9=-145/106, 9-10=-263/153

BOT CHORD

1-19=-106/204, 18-19=-106/204, 17-18=-106/204, 16-17=-106/204

15-16=-106/204, 14-15=-106/204,

13-14=-106/204, 12-13=-106/204,

11-12=-160/309, 10-11=-166/304

WEBS

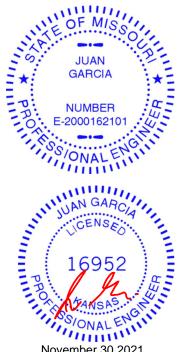
6-15=-201/15, 5-16=-181/174, 4-17=-169/178, 3-18=-171/175, 2-19=-171/174, 7-14=-178/172,

8-13=-173/182, 9-11=-156/157

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 1, 185 lb uplift at joint 10, 215 lb uplift at joint 12, 150 lb uplift at joint 16, 155 lb uplift at joint 17, 149 lb uplift at joint 18, 157 lb uplift at joint 19, 147 lb uplift at joint 14, 164 lb uplift at joint 13 and 134 lb uplift at joint
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



November 30,2021

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

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

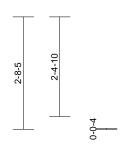


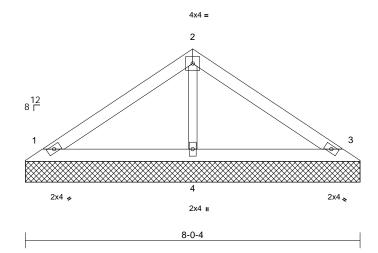
16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss Type Qty Ply Lot 130 H4		Lot 130 H4			
H4130	V1	Valley	1	1	Job Reference (optional)	I48981398

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Scale = 1:27.6

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	0.23	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 21 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=180/8-0-4, 3=180/8-0-4,

4=280/8-0-4

Max Horiz 1=-72 (LC 6) 1=-53 (LC 8), 3=-62 (LC 9), 4=-8 Max Uplift

(LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-115/66, 2-3=-108/49

BOT CHORD 1-4=-16/55, 3-4=-16/55

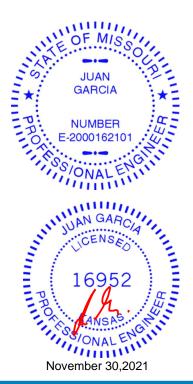
WEBS 2-4=-191/61

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 53 lb uplift at joint 1, 62 lb uplift at joint 3 and 8 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

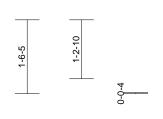


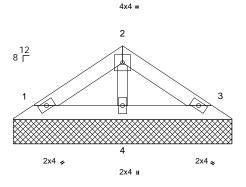


ſ	Job	Truss	Truss Type	Qty	Ply	Lot 130 H4	
	H4130	V2	Valley	1	1	Job Reference (optional)	148981399

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4-6-4

Scale = 1:23.8

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-7-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=92/4-6-4, 3=92/4-6-4,

4=142/4-6-4

Max Horiz 1=-36 (LC 4) Max Uplift

1=-27 (LC 8), 3=-31 (LC 9), 4=-4

(LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-59/33, 2-3=-55/25

BOT CHORD 1-4=-8/28, 3-4=-8/28

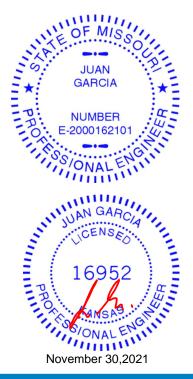
WEBS 2-4=-97/31

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 27 lb uplift at joint 1, 31 lb uplift at joint 3 and 4 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



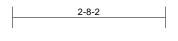


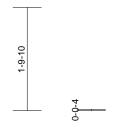
Ply Job Truss Truss Type Qty Lot 130 H4 148981400 H4130 V3 Valley Job Reference (optional)

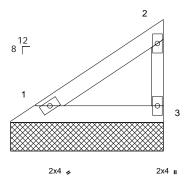
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 29 08:28:38 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







-9-10

2-8-2

Scale = 1:20.2

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	0.08	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	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 7 lb	FT = 10%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD 2-8-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 1=95/2-8-2, 3=95/2-8-2

Max Horiz 1=65 (LC 5)

Max Uplift 1=-13 (LC 8), 3=-36 (LC 8) Max Grav 1=95 (LC 1), 3=106 (LC 15) (lb) - Maximum Compression/Maximum

Tension

1-2=-56/45. 2-3=-85/49

TOP CHORD BOT CHORD 1-3=-23/18

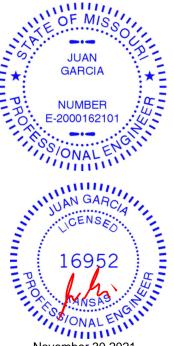
NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1 and 36 lb uplift at joint 3.

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

LOAD CASE(S) Standard



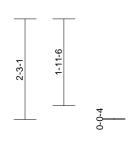
November 30,2021

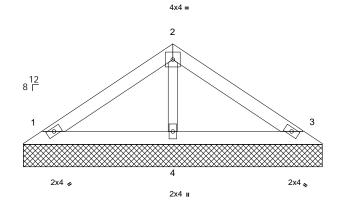


Job	Truss	SS Truss Type Qty Ply Lot 130 H4		Lot 130 H4		
H4130	V4	Valley	1	1	Job Reference (optional)	148981401

Run: 8.43 S. Oct 11.2021 Print: 8.430 S. Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:39 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1







6-8-7

Scale = 1:25.8

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	0.15	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 **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=147/6-8-7, 3=147/6-8-7,

4=228/6-8-7

Max Horiz 1=58 (LC 7) 1=-43 (LC 8), 3=-50 (LC 9), 4=-6 Max Uplift

(LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-94/54, 2-3=-88/40

BOT CHORD 1-4=-13/45, 3-4=-13/45

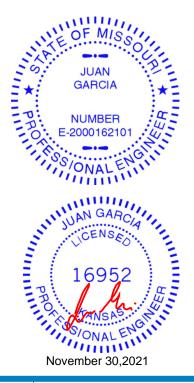
WEBS 2-4=-156/50

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; 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 43 lb uplift at joint 1, 50 lb uplift at joint 3 and 6 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





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

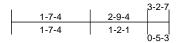
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

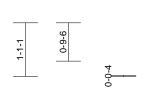


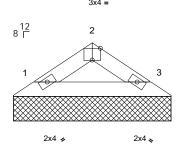
16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type Qty Ply Lot 130 H4		Lot 130 H4		
H4130	V5	Valley	1	1	Job Reference (optional)	148981402

Run: 8.43 S. Oct 11.2021 Print: 8.430 S. Oct 11.2021 MiTek Industries. Inc. Mon Nov 29.08:28:39 ID:XxAsF4MdGikvF3O7A2bzF0yH?NM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1







3-2-7

Scale = 1:23.4

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	0.02	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 7 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-3-3 oc purlins.

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

bracing.

1=104/3-2-7, 3=104/3-2-7 REACTIONS (lb/size)

Max Horiz 1=-23 (LC 6)

Max Uplift 1=-18 (LC 8), 3=-18 (LC 9) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-91/34, 2-3=-91/34

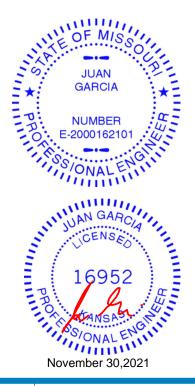
BOT CHORD 1-3=-15/60

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=50ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1 and 18 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



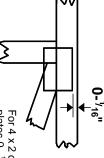


Symbols

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

4 × 4

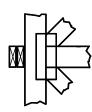
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



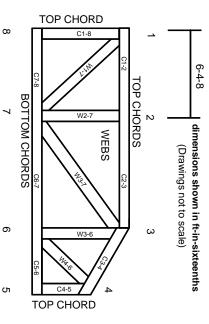
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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
- 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.