



RE: H4131 Lot 131 H4 MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Customer: Project Name: H4131

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

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	148978005	A1	11/29/2021	21	148978025	H8	11/29/2021
2	148978006	A2	11/29/2021	22	148978026	J3	11/29/2021
3	148978007	A3	11/29/2021	23	148978027	J4	11/29/2021
4	148978008	B1	11/29/2021	24	148978028	J5	11/29/2021
5	148978009	B2	11/29/2021	25	148978029	J6	11/29/2021
6	I48978010	B3	11/29/2021	26	148978030	K1	11/29/2021
7	I48978011	C1	11/29/2021	27	I48978031	K2	11/29/2021
8	I48978012	C2	11/29/2021	28	148978032	P1	11/29/2021
9	I48978013	C3	11/29/2021	29	148978033	P2	11/29/2021
10	I48978014	D1	11/29/2021	30	148978034	P3	11/29/2021
11	I48978015	D2	11/29/2021	31	148978035	P4	11/29/2021
12	I48978016	D3	11/29/2021	32	148978036	V1A	11/29/2021
13	148978017	D4	11/29/2021	33	148978037	V2A	11/29/2021
14	148978018	D5	11/29/2021	34	148978038	V3A	11/29/2021
15	I48978019	D6	11/29/2021	35	148978039	V4A	11/29/2021
16	148978020	G1	11/29/2021	36	148978040	V5A	11/29/2021
17	148978021	G2	11/29/2021	37	148978041	V6A	11/29/2021
18	148978022	H5	11/29/2021				
19	148978023	H6	11/29/2021				

11/29/2021

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

MiTek USA, Inc under my direct supervision

148978024

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.

H7

Kansas COA: E-943

20

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







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Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.4

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This package includes 37 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	148978005	A1	11/29/2021	21	148978025	H8	11/29/2021
2	148978006	A2	11/29/2021	22	148978026	J3	11/29/2021
3	148978007	A3	11/29/2021	23	148978027	J4	11/29/2021
4	148978008	B1	11/29/2021	24	148978028	J5	11/29/2021
5	148978009	B2	11/29/2021	25	148978029	J6	11/29/2021
6	148978010	B3	11/29/2021	26	148978030	K1	11/29/2021
7	148978011	C1	11/29/2021	27	I48978031	K2	11/29/2021
8	148978012	C2	11/29/2021	28	148978032	P1	11/29/2021
9	148978013	C3	11/29/2021	29	148978033	P2	11/29/2021
10	148978014	D1	11/29/2021	30	148978034	P3	11/29/2021
11	148978015	D2	11/29/2021	31	148978035	P4	11/29/2021
12	148978016	D3	11/29/2021	32	148978036	V1A	11/29/2021
13	148978017	D4	11/29/2021	33	148978037	V2A	11/29/2021
14	148978018	D5	11/29/2021	34	148978038	V3A	11/29/2021
15	148978019	D6	11/29/2021	35	148978039	V4A	11/29/2021
16	148978020	G1	11/29/2021	36	148978040	V5A	11/29/2021
17	148978021	G2	11/29/2021	37	I48978041	V6A	11/29/2021
18	148978022	H5	11/29/2021				
19	148978023	H6	11/29/2021				

11/29/2021

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

H7

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

148978024

20

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.



Job Truss Truss Type Qtv Ply Lot 131 H4 H4131 A1 **GABLE** Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978005 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Non Nov 25 06:02: ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7

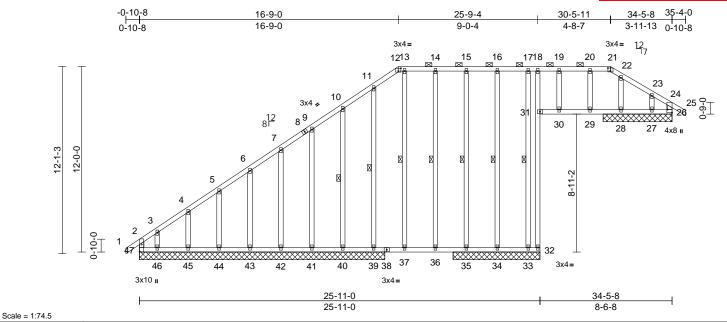


Plate Offsets (X, Y): [12:0-2-0,0-2-3], [21:0-2-0,0-2-5], [26:Edge,0-3-8], [47:0-5-10,0-1-8]

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	0.27	Vert(LL)	-0.04	36-37	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.07	36-37	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.04	24	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.03	36-37	>999	240	Weight: 226 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

BOT 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.): 12-21.

Rigid ceiling directly applied or 6-0-0 oc

bracing, Except: 10-0-0 oc bracing:

31-32,30-31,29-30,28-29,27-28,26-27.

10-40, 11-39, 13-37, WEBS 1 Row at midpt 14-36, 15-35, 16-34,

REACTIONS (lb/size)

24=171/4-5-8, 26=45/4-5-8, 27=-28/4-5-8, 28=409/4-5-8, 31=359/5-7-8, 32=-19/5-7-8, 33=83/5-7-8, 34=9/5-7-8, 35=514/5-7-8, 39=510/15-10-8, 40=15/15-10-8, 41=218/15-10-8, 42=171/15-10-8, 43=183/15-10-8, 44=177/15-10-8, 45=190/15-10-8, 46=109/15-10-8, 47=136/15-10-8

Max Horiz 47=395 (LC 8)

Max Uplift

24=-50 (LC 9), 26=-2 (LC 4), 27=-92 (LC 21), 28=-12 (LC 25), 31=-74 (LC 5), 32=-19 (LC 1), 33=-9 (LC 4), 34=-31 (LC 25), 35=-122 (LC 5), 39=-107 (LC 5), 40=-92 (LC 27), 41=-70 (LC 8), 42=-71 (LC 27), 43=-68 (LC 8), 44=-77 (LC 27), 45=-43 (LC 8)

46=-340 (LC 27), 47=-225 (LC 6)

Max Grav 24=171 (LC 1), 26=45 (LC 1), 27=82 (LC 5), 28=409 (LC 22) 31=359 (LC 1), 32=5 (LC 4), 33=83 (LC 21), 34=22 (LC 20), 35=514 (LC 1), 39=510 (LC 1), 40=70 (LC 6), 41=218 (LC 1), 42=180 (LC 15), 43=188 (LC 15), 44=187 (LC 15), 45=190 (LC 21), 46=251 (LC 6),

FORCES (lb) - Maximum Compression/Maximum Tension

47=478 (LC 27)

TOP CHORD 2-47=-348/161, 1-2=0/40, 2-3=-522/286 3-4=-392/230, 4-5=-332/209, 5-6=-266/185,

6-7=-201/161, 7-9=-140/138, 9-10=-117/113, 10-11=-97/116, 11-12=-109/108, 12-13=-52/106, 13-14=-52/106, 14-15=-52/106, 15-16=-52/106,

16-17=-52/106, 17-18=-52/106, 18-19=-59/101, 19-20=-59/101, 20-21=-59/101, 21-22=-106/94

22-23=-73/80, 23-24=-80/41, 24-25=0/36, 24-26=0/0

46-47=-1/1, 45-46=-1/1, 44-45=-1/1, BOT CHORD

43-44=-1/1, 42-43=-1/1, 41-42=-1/1, 40-41=-1/1, 39-40=-1/1, 37-39=-1/1, 36-37=-1/1, 35-36=-1/1, 34-35=-1/1, 33-34=-1/1, 32-33=-1/1, 31-32=0/0, 18-31=-275/69, 30-31=-8/36, 29-30=-8/36,

28-29=-8/36, 27-28=-8/36, 26-27=-8/36 3-46=-157/221, 4-45=-148/84, 5-44=-146/96

6-43=-147/93, 7-42=-145/94, 9-41=-156/93, 10-40=-96/105, 11-39=-277/86, 13-37=-62/48, 14-36=-47/53, 15-35=-293/98,

16-34=-70/58, 17-33=-10/23, 19-30=-19/35, 20-29=-55/44, 22-28=-238/21, 23-27=-66/82

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
- vasa=91mph; ICDL=6.0pst; BCDL=6.0pst; h=25ft; Cat. II; Exp C; Enclosed; MWFR3 (envelope) exterior zone; cantilever left and right exposed; envelope) exterior zone; cantilever left and right exposed; enveloped; but the plane of the truss only. For study exposed to wind (normal to the truss only. For study exposed to wind (normal to the truss only. For study exposed to wind (normal to the truss only. For study exposed to wind (normal to the truss is not designed to support a ceiling and is not This truss is not designed to support a ceiling and is not
- intended for use where aesthetics are a consideration. Provide adequate grainage to prevent water ponding.
- All plates are 2x4 MT20 unless of herwise indicated
- Truss to be fully sheathed from one face or securely
- braced against lateral movement (i.e. diagonal web).

 Gable studs spaced at 2-0-0 cr.

 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



November 29,2021

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

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



Ply Truss Type Qty Job Truss Lot 131 H4 H4131 A1 **GABLE** Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978005 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbG (WrCDoi7J42

- 11) Bearing at joint(s) 24, 31 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 47, 2 lb uplift at joint 26, 50 lb uplift at joint 24, 19 lb uplift at joint 32, 74 lb uplift at joint 31, 340 lb uplift at joint 46, 43 lb uplift at joint 45, 77 lb uplift at joint 44, 68 Ib uplift at joint 43, 71 lb uplift at joint 42, 70 lb uplift at joint 41, 92 lb uplift at joint 40, 107 lb uplift at joint 39, 122 lb uplift at joint 35, 31 lb uplift at joint 34, 9 lb uplift at joint 33, 12 lb uplift at joint 28 and 92 lb uplift at joint
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 17 lb down and 18 lb up at 17-1-0, and 17 lb down and 18 lb up at 19-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) 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, 2-12=-70, 12-21=-70, 21-24=-70, 24-25=-70, 32-47=-20, 26-31=-20 Concentrated Loads (lb)

Vert: 37=-17 (F), 36=-17 (F)



Ply Job Truss Truss Type Qtv Lot 131 H4 H4131 A2 Piggyback Base Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978006 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

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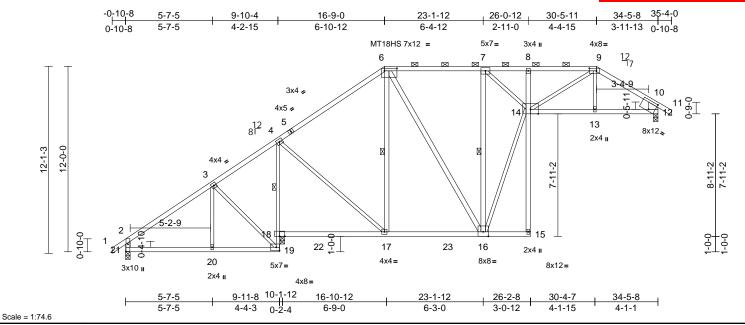


Plate Offsets (X, Y): [6:0-9-12,0-2-0], [9:0-5-8,0-2-0], [12:0-4-9,0-6-10], [21:0-5-10,0-1-8]

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	0.79	Vert(LL)	-0.17	15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.28	13-14	>999	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.15	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.12	15	>999	240	Weight: 174 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 9-11:2x4 SPF 2100F TOP CHORD

1.8E

BOT CHORD 2x4 SPF No.2 *Except* 19-4:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

17-6,16-6,7-16,21-2:2x4 SPF No.2,

12-10:2x8 SP DSS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-9-2 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-13 max.): 6-9.

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

bracing. Except:

1 Row at midpt 4-18 WEBS 1 Row at midpt 6-17, 7-16

REACTIONS (lb/size) 12=1116/0-3-8, 18=1743/0-3-8, 21=356/0-3-8

Max Horiz 21=393 (LC 8)

Max Uplift 12=-91 (LC 4), 18=-282 (LC 8)

Max Grav 12=1146 (LC 2), 18=1903 (LC 15),

21=369 (LC 16)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/40, 2-3=-277/87, 3-4=-142/389,

4-6=-674/85, 6-7=-604/119, 7-8=-2017/332, 8-9=-2068/343, 9-10=-1483/168, 10-11=0/42,

2-21=-324/18, 10-12=-1005/110

BOT CHORD

20-21=-211/193, 19-20=-211/193 18-19=-99/387, 4-18=-1412/225,

17-18=-259/38, 16-17=-93/459, 15-16=-2/9,

14-15=0/34, 8-14=-221/90, 13-14=-135/1172, 12-13=-138/1170

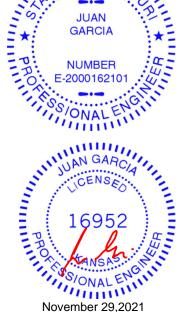
WEBS 3-20=0/254, 3-19=-498/165, 4-17=-67/915,

6-17=-401/131, 6-16=-129/347, 7-16=-1671/382, 14-16=-311/1722, 7-14=-319/1954, 9-13=-10/117,

9-14=-256/1081

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 282 lb uplift at joint 18 and 91 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



November 29,2021

NOTES

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



Ply Job Truss Truss Type Qty Lot 131 H4 H4131 **A3** Piggyback Base 2 Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978007 LEE'S SUMMIT. MISSOURI

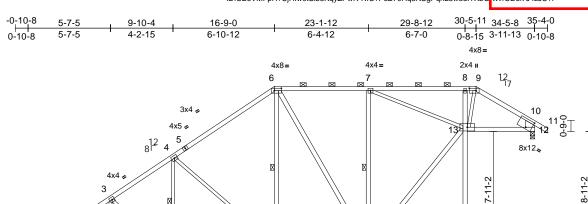
RELEASE FOR CONSTRUCTION

-0 9-0

Wheeler Lumber, Waverly, KS - 66871,

12-1-3

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 25 06:00:(ID:CE6VMFpH?UjHlw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3ulTXbG<mark>K</mark>WrCDoi7



3x6= 9-11-8 10-1-12 16-10-12 23-1-12 29-10-8 34-5-8 5-7-5 6-3-0 5-7-5 6-8-12 4-7-0 4-4-3 0-2-4 6 - 9 - 0

21 수

18

3x4=

Scale = 1:78.4

Plate Offsets (X, Y): [6:0-5-12,0-2-0], [9:0-5-8,0-2-0], [12:0-4-9,0-6-10], [20:0-5-10,0-1-8]

3x10 II

19

2x4 II

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.15	14-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.26	14-15	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.07	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	14	>999	240	Weight: 177 lb	FT = 10%

16

4×4=

22

15

4x8=

23

2x4 II

6x12=

LUMBER

2x4 SPF No.2 *Except* 9-11:2x4 SPF 2100F TOP CHORD

1.8E

BOT CHORD 2x4 SPF No.2 *Except* 18-4:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

16-6,15-6,7-15,15-13,20-2:2x4 SPF No.2,

12-10:2x8 SP DSS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-4-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-10 max.): 6-9.

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

bracing, Except: 6-0-0 oc bracing: 16-17.

1 Row at midpt 4-17

WEBS 1 Row at midpt 6-16, 7-15

REACTIONS (lb/size) 12=1149/0-3-8, 17=1627/0-3-8,

20=439/0-3-8

Max Horiz 20=393 (LC 8) Max Uplift 12=-94 (LC 4), 17=-276 (LC 8)

Max Grav 12=1218 (LC 2), 17=1818 (LC 15),

20=442 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/40, 2-3=-372/11, 3-4=-113/267,

4-6=-748/92, 6-7=-670/123, 7-8=-1524/219, 8-9=-1498/201, 9-10=-1563/186, 10-11=0/42,

2-20=-397/22, 10-12=-1072/117

19-20=-217/277, 18-19=-217/277, BOT CHORD

17-18=-98/383, 4-17=-1315/220,

16-17=-147/25, 15-16=-104/521, 14-15=0/13,

13-14=0/161, 8-13=-553/221,

12-13=-146/1223

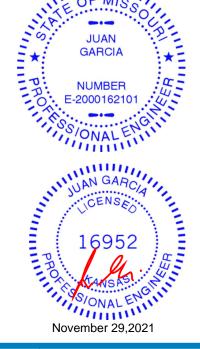
WEBS 3-19=0/237, 3-18=-472/163, 4-16=-48/824,

6-16=-337/112, 6-15=-125/341, 7-15=-830/249, 13-15=-185/1028,

7-13=-120/928, 9-13=-254/1103

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 276 lb uplift at joint 17 and 94 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or





RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978008 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Non Nov 25 06:00:(ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J42

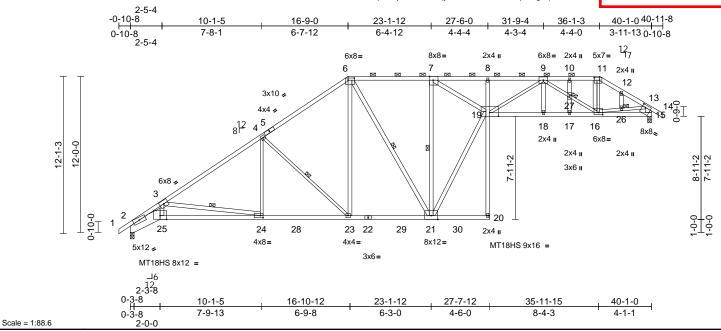


Plate Offsets (X, Y): [6:0-5-12,0-2-0], [7:0-3-8,Edge], [11:0-5-0,0-2-4], [15:0-3-0,0-2-4], [16:0-4-0,0-2-0], [24:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.45	20	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.76	20	>628	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.44	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.30	20	>999	240	Weight: 217 lb	FT = 10%

LUMBER TOP CHORD

2x4 SPF No.2 *Except* 6-11,1-5:2x4 SPF

2100F 1.8E

2x4 SPF 2100F 1.8E *Except* 2-25:2x10 SP BOT CHORD DSS. 20-8.22-20:2x4 SPF No.2

2x3 SPF No.2 *Except*

25-3,24-3,21-6,21-19:2x4 SPF No.2

23-6,7-21,19-7:2x4 SPF 2100F 1.8E,

15-13:2x6 SPF No.2

OTHERS 2x4 SPF No.2

BRACING

WEBS

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

(2-10-13 max.): 6-11.

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

bracing, Except:

7-6-6 oc bracing: 24-25. WFRS 1 Row at midpt 3-24, 4-23, 6-21, 7-21

JOINTS 1 Brace at Jt(s): 26,

REACTIONS (lb/size) 2=1858/0-3-8, 15=1864/0-3-8

Max Horiz 2=405 (LC 8)

Max Uplift 2=-189 (LC 8), 15=-145 (LC 5)

Max Grav 2=1967 (LC 2), 15=1963 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/19, 2-3=-5921/994, 3-4=-2975/297,

4-6=-2244/272, 6-7=-1771/248, 7-8=-5846/841, 8-9=-5876/843, 9-10=-2519/287, 10-11=-2519/287, 11-12=-2796/328, 12-13=-2957/333,

13-14=0/39, 13-15=-1865/166

BOT CHORD 2-25=-1236/5100, 24-25=-1093/4374,

23-24=-445/2409, 21-23=-245/1774, 20-21=-2/14, 19-20=0/95, 8-19=-239/104, 18-19=-625/4447, 17-18=-625/4447, 16-17=-625/4447, 15-16=-51/482

WEBS

3-25=-403/2206, 3-24=-1984/654, 4-24=0/544, 4-23=-990/317, 6-23=-136/941, 6-21=-231/226, 7-21=-2964/557, 19-21=-530/3648, 7-19=-703/4836

9-19=-271/1716, 11-16=-137/1131, 16-26=-305/2030, 13-26=-300/2003, 9-27=-2348/397, 16-27=-2399/406, 12-26=-36/203, 10-27=-73/34, 17-27=0/43,

9-18=0/163

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 189 lb uplift at joint 2 and 145 lb uplift at joint 15.

- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Ply Job Truss Truss Type Qtv Lot 131 H4 H4131 B2 Piggyback Base 3 Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978009 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Non Nov 25 06:0): ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7U4

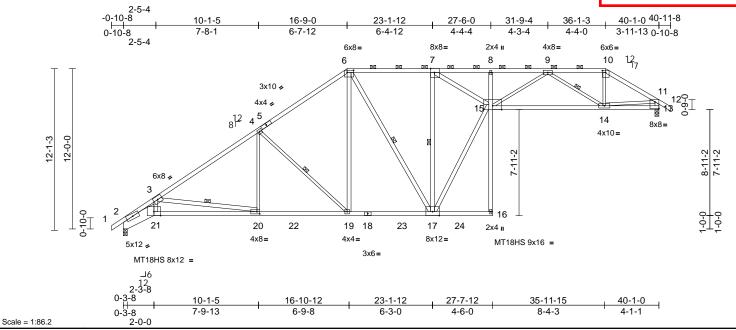


Plate Offsets (X, Y): [6:0-5-12,0-2-0], [7:0-3-8,Edge], [10:0-3-0,0-1-12], [13:Edge,0-6-0], [20:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.46	14-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.82	14-15	>584	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.45	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.30	16	>999	240	Weight: 207 lb	FT = 10%

LUMBER
TOP CHORD

2x4 SPF 2100F 1.8E *Except* 10-12:2x4

SPF No.2

BOT CHORD 2x4 SPF 2100F 1.8E *Except* 2-21:2x10 SP

DSS. 16-8.18-16:2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*

21-3,20-3,17-6,17-15,13-11:2x4 SPF No.2,

19-6,7-17,15-7:2x4 SPF 2100F 1.8E

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or 3-0-8 oc purlins, except end verticals, and

2-0-0 oc purlins (2-10-11 max.): 6-10.

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

bracing, Except:

7-6-4 oc bracing: 20-21 9-6-6 oc bracing: 14-15.

1 Row at midpt 3-20, 4-19, 6-17, 7-17,

9-14

REACTIONS (lb/size) 2=1862/0-3-8, 13=1862/0-3-8

Max Horiz 2=406 (LC 8)

Max Uplift 2=-189 (LC 8), 13=-153 (LC 5)

Max Grav 2=1971 (LC 2), 13=1961 (LC 2) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD 1-2=0/19, 2-3=-5932/996, 3-4=-2983/297, 4-6=-2251/272, 6-7=-1780/251,

7-8=-5890/852, 8-9=-5950/845, 9-10=-2506/264, 10-11=-2923/311, 11-12=0/36, 11-13=-1920/154

BOT CHORD 2-21=-1238/5109, 20-21=-1095/4382,

19-20=-445/2414, 17-19=-247/1780, 16-17=-3/11, 15-16=0/93, 8-15=-227/100,

14-15=-671/4429, 13-14=-74/373

WEBS 3-21=-404/2209, 3-20=-1987/657,

4-20=0/544, 4-19=-990/317, 6-19=-136/940,

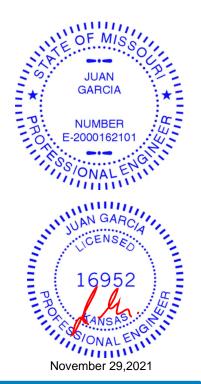
6-17=-229/229, 7-17=-2989/562, 15-17=-534/3673, 7-15=-712/4877

9-15=-217/1826, 10-14=-126/1262, 11-14=-267/2108, 9-14=-2321/476

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 189 lb uplift at joint 2 and 153 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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



Ply Job Truss Truss Type Qty Lot 131 H4 H4131 В3 Piggyback Base 2 Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978010 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 25 06:0):(ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7U4

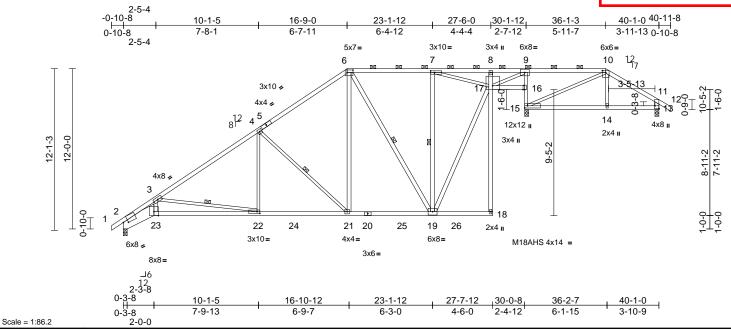


Plate Offsets (X, Y): [2:0-4-4,0-2-0], [6:0-5-4,0-2-4], [7:0-3-8,0-1-8], [10:0-3-0,0-1-12], [13:Edge,0-3-8], [22:0-2-8,0-1-8]

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	0.73	Vert(LL)	-0.23	22-23	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.42	22-23	>856	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.09	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	22-23	>999	240	Weight: 203 lb	FT = 10%

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 2-23:2x10 SP DSS.

23-20:2x4 SPF 2100F 1.8E, 9-15:2x3 SPF

No 2

WEBS 2x3 SPF No.2 *Except*

23-3,21-6,19-6,7-19,19-17,13-11:2x4 SPF

BRACING

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

2-0-0 oc purlins (3-5-1 max.): 6-10.

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

bracing, Except:

7-9-4 oc bracing: 22-23 6-0-0 oc bracing: 16-17

2-2-0 oc bracing: 15-16.

WFRS 1 Row at midpt 3-22, 4-21, 6-19, 7-19

REACTIONS (lb/size)

TOP CHORD

2=1399/0-3-8, 13=442/0-3-8,

15=1884/0-3-8 Max Horiz 2=406 (LC 8)

Max Uplift 2=-158 (LC 8), 13=-84 (LC 9),

15=-302 (LC 5)

2=1517 (LC 15), 13=468 (LC 16),

15=2019 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/19, 2-3=-4591/893, 3-4=-2043/236,

4-6=-1325/212, 6-7=-719/151,

7-8=-2175/271, 8-9=-2099/246, 9-10=-44/188, 10-11=-460/63, 11-12=0/36,

11-13=-419/104

BOT CHORD 2-23=-1153/4002, 22-23=-1023/3432,

21-22=-394/1720, 19-21=-164/1022, 18-19=-1/9, 17-18=0/94, 8-17=-40/54, 16-17=-258/70, 15-16=-1716/333,

9-16=-1585/337. 14-15=-2/329. 13-14=0/336

WEBS 3-23=-365/1748, 3-22=-1729/635,

4-22=0/524, 4-21=-965/315, 6-21=-134/921,

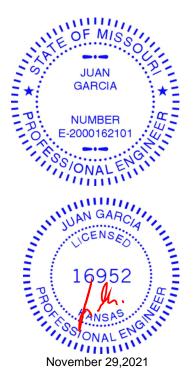
6-19=-672/168, 7-19=-841/238,

17-19=-240/1694, 7-17=-185/1518 9-17=-360/2611, 10-15=-516/11, 10-14=0/233

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 158 lb uplift at joint 2, 302 lb uplift at joint 15 and 84 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard





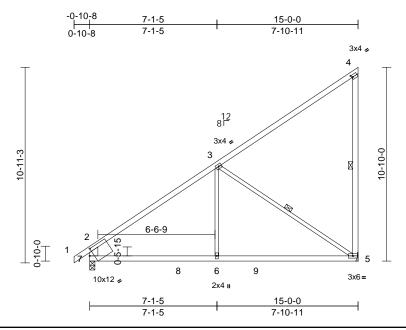
Job	Truss	Truss Type	Qty	Ply	Lot 131 H4
H4131	C1	Monopitch	2	1	Job Reference (option

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978011 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Non Nov 29 06:03:03 ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J42



Scale = 1:64.4

Plate Offsets (X, Y): [4:0-0-13,0-1-8], [7:0-2-11,0-4-0]

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	0.75	Vert(LL)	-0.12	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.24	5-6	>745	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	6-7	>999	240	Weight: 63 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 4-5:2x4 SPF No.2, WEBS

7-2:2x6 SPF No.2

BRACING

WEBS

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

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

bracing.

1 Row at midpt 4-5, 3-5

REACTIONS (lb/size) 5=655/ Mechanical, 7=738/0-3-8

Max Horiz 7=414 (LC 8)

Max Uplift 5=-273 (LC 8)

Max Grav 5=826 (LC 15), 7=824 (LC 15) (lb) - Maximum Compression/Maximum

FORCES

Tension TOP CHORD

1-2=0/43, 2-3=-851/0, 3-4=-206/118, 4-5=-238/146, 2-7=-710/47

BOT CHORD 6-7=-252/704. 5-6=-252/704

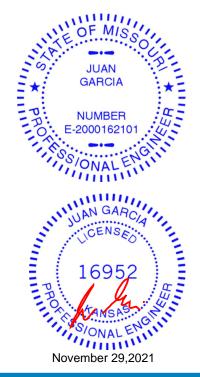
WFBS 3-6=0/407, 3-5=-831/299

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left 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 273 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 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



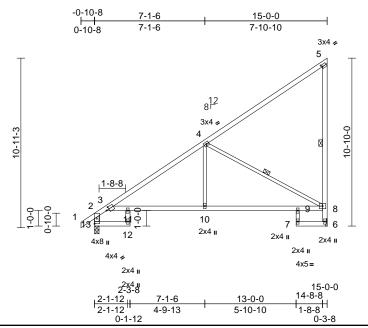
Job	Truss	Truss Type	Qty	Ply	Lot 131 H4
H4131	C2	Monopitch	5	1	Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978012 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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 06:03:05 ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J42



Scale = 1:74.3

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.Ó	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.12	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.23	10-11	>778	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.17	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.22	10-11	>798	240	Weight: 66 lb	FT = 10%

LUMBER

BRACING

WEBS

TOP CHORD 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except* 9-7:2x3 SPF No.2 2x4 SPF No.2 *Except* 4-10,8-4:2x3 SPF WEBS

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

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

bracing.

1 Row at midpt 5-6, 4-8

REACTIONS (lb/size) 6=659/ Mechanical, 13=736/0-3-8

Max Horiz 13=415 (LC 8)

Max Uplift 6=-273 (LC 8) Max Grav 6=690 (LC 15), 13=736 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES

TOP CHORD

1-2=0/40, 2-3=-423/0, 3-4=-898/9, 4-5=-211/111, 6-8=-661/287, 5-8=-224/146,

2-13=-753/84

12-13=0/0, 3-11=-319/746, 10-11=-319/746, 9-10=-319/746, 8-9=-322/754, 7-9=0/19,

6-7=-8/2

11-12=-63/75, 4-10=0/357, 4-8=-834/361

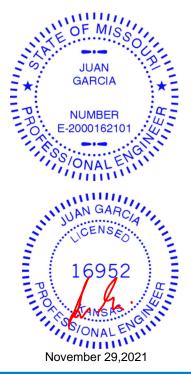
WEBS NOTES

BOT CHORD

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 273 lb uplift at
- 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

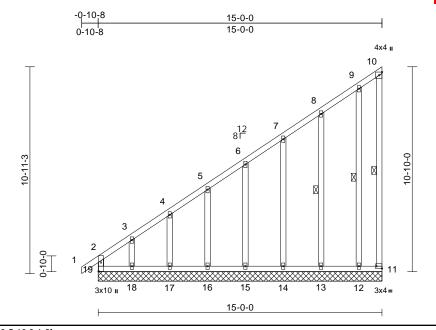
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 131 H4 H4131 C3 **GABLE** Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978013 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Non Nov 29 06:03:03 ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J42



Scale = 1:60.9

Plate Offsets (X, Y): [11:Edge,0-1-8], [19:0-5-10,0-1-8]

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	0.49	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 95 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 10-0-0 oc

bracing.

WEBS 1 Row at midpt 10-11, 8-13, 9-12 REACTIONS (lb/size) 11=32/15-0-0, 12=148/15-0-0,

13=188/15-0-0, 14=179/15-0-0, 15=181/15-0-0, 16=178/15-0-0,

17=187/15-0-0. 18=149/15-0-0. 19=154/15-0-0

Max Horiz 19=426 (LC 5)

11=-119 (LC 7), 12=-80 (LC 8), 13=-59 (LC 8), 14=-75 (LC 8),

15=-67 (LC 8), 16=-78 (LC 8), 17=-38 (LC 8), 18=-226 (LC 8),

19=-146 (LC 6)

Max Grav 11=105 (LC 4), 12=148 (LC 1) 13=200 (LC 15), 14=184 (LC 15), 15=187 (LC 15), 16=189 (LC 15),

17=187 (LC 1), 18=243 (LC 15),

19=345 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-19=-269/118, 1-2=0/40, 2-3=-413/261, 3-4=-326/210, 4-5=-298/191, 5-6=-259/167,

6-7=-243/155, 7-8=-225/151, 8-9=-207/147, 9-10=-104/73, 10-11=-56/57

BOT CHORD 18-19=-149/113, 17-18=-149/113, 16-17=-149/113, 15-16=-149/113,

14-15=-149/113, 13-14=-149/113, 12-13=-149/113, 11-12=-149/113

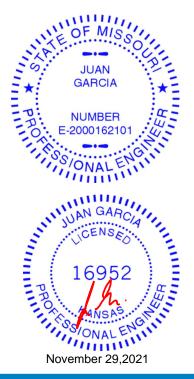
WEBS

3-18=-169/174, 4-17=-145/79, 5-16=-148/97, 6-15=-147/93, 7-14=-146/94, 8-13=-153/101, 9-12=-159/150

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 19, 119 lb uplift at joint 11, 226 lb uplift at joint 18, 38 lb uplift at joint 17, 78 lb uplift at joint 16, 67 lb uplift at joint 15, 75 lb uplift at joint 14, 59 lb uplift at joint 13 and 80 lb uplift at joint 12.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





Ply Job Truss Truss Type Qty Lot 131 H4 H4131 D1 **GABLE** Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978014 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 25 06:0):(ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7

(loc)

I/defI

L/d | PLATES

GRIP

-0-10-8 11-6-8 0-10-8 11-6-8 8 1<u>2</u> 5 4-5-6 3 0-9-d 9 13 12 10 11 3x4 = 11-6-8

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	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 45 lb	FT = 10%

CSI

LUMBER

Loading

Scale = 1:31.2

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

(psf)

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

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

bracing.

REACTIONS (lb/size)

2=178/11-6-8, 9=-4/11-6-8, 10=136/11-6-8, 11=188/11-6-8, 12=184/11-6-8, 13=157/11-6-8, 14=248/11-6-8

Spacing

2-0-0

Max Horiz 2=180 (LC 5) Max Uplift

2=-24 (LC 4), 9=-35 (LC 7), 10=-35 (LC 4), 11=-43 (LC 8), 12=-44 (LC

8), 13=-39 (LC 4), 14=-67 (LC 8)

2=178 (LC 1), 9=16 (LC 4), 10=136

(LC 1), 11=188 (LC 1), 12=184 (LC 1), 13=157 (LC 1), 14=248 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/6, 2-3=-144/38, 3-4=-111/18,

4-5=-95/22, 5-6=-86/22, 6-7=-73/28,

7-8=-51/37, 8-9=-17/14

BOT CHORD 2-14=-57/43, 13-14=-57/43, 12-13=-57/43, 11-12=-57/43, 10-11=-57/43, 9-10=-57/43

3-14=-186/96, 4-13=-125/61, 5-12=-142/68,

WEBS

6-11=-147/69, 7-10=-102/47

NOTES

TOP CHORD

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

DEFL

- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc. 5)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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 35 lb uplift at joint 9, 24 lb uplift at joint 2, 67 lb uplift at joint 14, 39 lb uplift at joint 13, 44 lb uplift at joint 12, 43 lb uplift at joint 11 and 35 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



November 29,2021

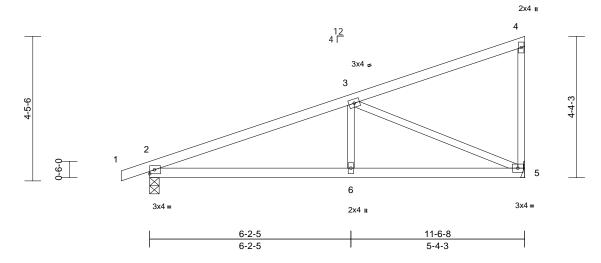


Truss Type Qty Job Truss Ply Lot 131 H4 H4131 D2 3 Monopitch Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978015 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 25 06:00:(ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7





Scale = 1:35.5

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	0.43	Vert(LL)	-0.04	2-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.09	2-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	2-6	>999	240	Weight: 37 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-7-8 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=181 (LC 5)

Max Uplift 2=-126 (LC 4), 5=-109 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

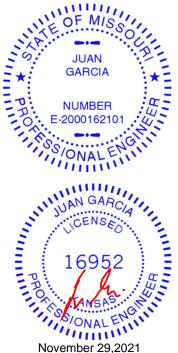
TOP CHORD 1-2=0/6, 2-3=-877/127, 3-4=-118/26,

4-5=-140/56

BOT CHORD 2-6=-147/760, 5-6=-147/760 **WEBS** 3-6=0/269, 3-5=-817/202

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 5 and 126 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.





Ply Qty Job Truss Truss Type Lot 131 H4 H4131 D3 3 Monopitch Job Reference (optional

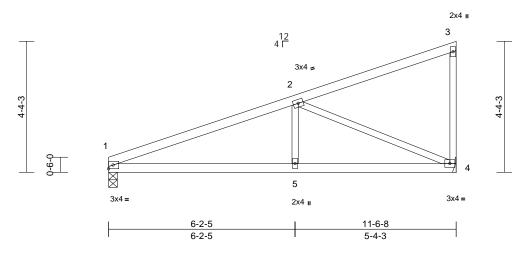
DEVELOPMENT SERVICES 148978016 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Non Nov 29 06:0:14 ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J42





Scale = 1:38.3

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	0.46	Vert(LL)	-0.04	1-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.09	1-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	1-5	>999	240	Weight: 36 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-5-11 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 1=508/0-3-8, 4=508/ Mechanical

Max Horiz 1=179 (LC 5)

Max Uplift 1=-81 (LC 4), 4=-110 (LC 8) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD 1-2=-872/133, 2-3=-118/26, 3-4=-138/55 **BOT CHORD** 1-5=-151/772, 4-5=-151/772

WEBS 2-5=0/271, 2-4=-830/206

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 1 and 110 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



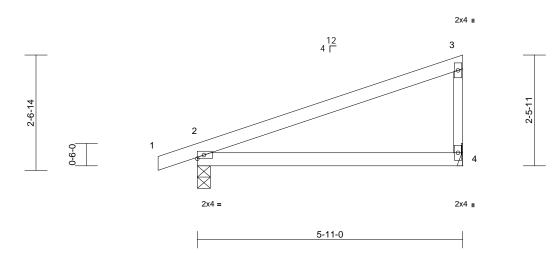


Ply Qty Job Truss Truss Type Lot 131 H4 H4131 D4 4 Monopitch Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978017 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Non Nov 29 06:00:00 ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J42





Scale = 1:25.7

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	0.59	Vert(LL)	-0.06	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.12	2-4	>550	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 2=333/0-3-8, 4=249/ Mechanical

Max Horiz 2=97 (LC 7)

Max Uplift 2=-87 (LC 4), 4=-54 (LC 8) (lb) - Maximum Compression/Maximum

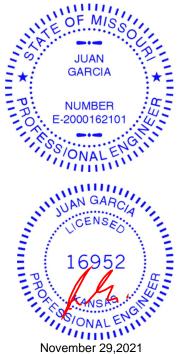
FORCES

Tension

TOP CHORD 1-2=0/6, 2-3=-85/54, 3-4=-192/88 BOT CHORD 2-4=-30/23

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 4 and 87 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.





Ply Truss Type Job Truss Qty Lot 131 H4 H4131 D5 **GABLE** Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978018 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 25 06:0):(ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J42

I/defI

n/a 999

n/a

n/a n/a

(loc)

10

n/a

n/a

0.00

L/d

999

PLATES

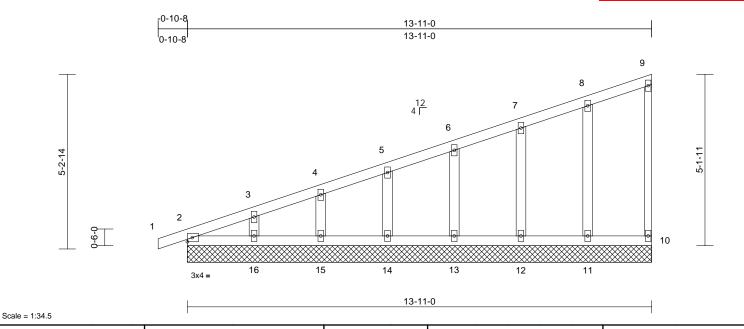
Weight: 53 lb

MT20

GRIP

197/144

FT = 10%



BCDL

Loading

TCDI

BCLL

TCLL (roof)

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

(psf)

25.0

10.0

10.0

0.0*

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

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

bracing.

REACTIONS (lb/size)

2=149/13-11-0, 10=65/13-11-0, 11=189/13-11-0, 12=179/13-11-0, 13=180/13-11-0, 14=180/13-11-0, 15=179/13-11-0, 16=182/13-11-0

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

2-0-0

1.15

1 15

YES

IRC2018/TPI2014

Max Horiz 2=216 (LC 5)

Max Uplift

2=-5 (LC 4), 10=-19 (LC 5), 11=-45 (LC 4), 12=-42 (LC 8), 13=-43 (LC 4), 14=-43 (LC 8), 15=-44 (LC 4),

16=-56 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/6, 2-3=-181/27, 3-4=-152/22 4-5=-132/22, 5-6=-117/22, 6-7=-105/22, 7-8=-96/22, 8-9=-76/42, 9-10=-51/24

BOT CHORD 2-16=-68/52, 15-16=-68/52, 14-15=-68/52,

13-14=-68/52, 12-13=-68/52, 11-12=-68/52,

10-11=-68/52

WEBS 3-16=-140/81, 4-15=-140/67, 5-14=-140/67,

6-13=-140/66, 7-12=-139/71, 8-11=-147/55

NOTES

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

All plates are 2x4 MT20 unless otherwise indicated.

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

0.19

0.05

0.05

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

CSI

TC

BC

WB

Matrix-S

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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 19 lb uplift at joint 10, 5 lb uplift at joint 2, 56 lb uplift at joint 16, 44 lb uplift at joint 15, 43 lb uplift at joint 14, 43 lb uplift at joint 13, 42 lb uplift at joint 12 and 45 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.

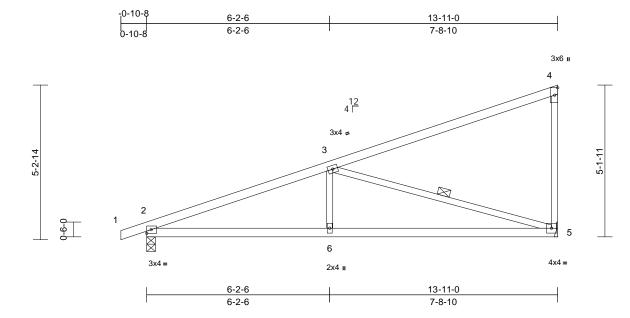




Job Truss Truss Type Qty Ply Lot 131 H4 H4131 D6 2 Monopitch Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978019 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 25 06:00:(ID:CE6VMFpH?UjHlw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3ulTXbG<mark>K</mark>WrCDoi7



DEFL

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

0.72

0.54

0.68

in

-0.11

-0.22

0.02

0.04

(loc)

5-6

5-6

2-6

5

I/defI

>999

>739

>999

n/a n/a

L/d

360

240

240

PLATES

Weight: 45 lb

MT20

GRIP

197/144

FT = 10%

CSI

TC

BC

WB

Matrix-S

BCLL	
BCDL	
	-

TCDI

Scale = 1:39 Loading

TCLL (roof)

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

BRACING

Structural wood sheathing directly applied or TOP CHORD 4-5-0 oc purlins, except end verticals. BOT CHORD

(psf)

25.0

10.0

10.0

0.0*

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

2-0-0

1.15

1 15

YES

IRC2018/TPI2014

Rigid ceiling directly applied or 10-0-0 oc

bracing.

WFRS 1 Row at midpt 3-5

REACTIONS (lb/size) 2=689/0-3-8, 5=612/ Mechanical

Max Horiz 2=216 (LC 5) Max Uplift 2=-143 (LC 4), 5=-132 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-1240/187, 3-4=-163/47,

4-5=-221/92

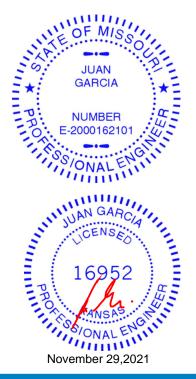
BOT CHORD 2-6=-224/1108, 5-6=-224/1108

WEBS 3-6=0/327, 3-5=-1131/278

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 5 and 143 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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

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

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

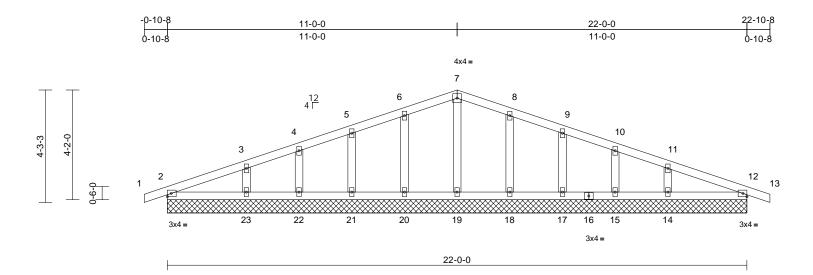


Ply Job Truss Truss Type Qty Lot 131 H4 H4131 G1 Common Supported Gable Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978020 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 25 06:00: ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J42



Scale = 1:43.7

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 76 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size)

2=186/22-0-0, 12=186/22-0-0, 14=261/22-0-0, 15=152/22-0-0, 17=185/22-0-0, 18=186/22-0-0, 19=163/22-0-0, 20=186/22-0-0, 21=185/22-0-0, 22=152/22-0-0, 23=261/22-0-0

Max Horiz 2=70 (LC 8)

Max Uplift 2=-44 (LC 4), 12=-53 (LC 5),

14=-65 (LC 9), 15=-38 (LC 5), 17=-44 (LC 9), 18=-46 (LC 9), 20=-46 (LC 8), 21=-44 (LC 8),

22=-38 (LC 4), 23=-67 (LC 8) 2=186 (LC 1), 12=186 (LC 1), Max Grav

14=261 (LC 22), 15=152 (LC 22), 17=185 (LC 1), 18=189 (LC 22), 19=163 (LC 1), 20=189 (LC 21), 21=185 (LC 1), 22=152 (LC 21), 23=261 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/6, 2-3=-79/56, 3-4=-47/58, 4-5=-28/73, TOP CHORD 5-6=-29/90, 6-7=-31/108, 7-8=-31/104,

8-9=-29/75, 9-10=-28/46, 10-11=-34/26 11-12=-54/36, 12-13=0/6

BOT CHORD 2-23=-3/56, 22-23=-3/56, 21-22=-3/56,

20-21=-3/56, 19-20=-3/56, 18-19=-3/56, 17-18=-3/56, 15-17=-3/56, 14-15=-3/56,

12-14=-3/56

WEBS

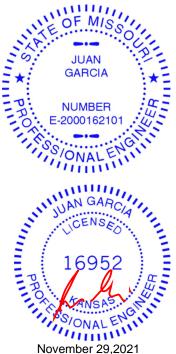
7-19=-123/0, 6-20=-150/70, 5-21=-143/68, 4-22=-122/59, 3-23=-195/97, 8-18=-150/70, 9-17=-143/69, 10-15=-122/59, 11-14=-195/95

NOTES

1)

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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 44 lb uplift at joint 2, 46 lb uplift at joint 20, 44 lb uplift at joint 21, 38 lb uplift at joint 22, 67 lb uplift at joint 23, 46 lb uplift at joint 18, 44 lb uplift at joint 17, 38 lb uplift at joint 15, 65 lb uplift at joint 14 and 53 lb uplift at joint 12.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





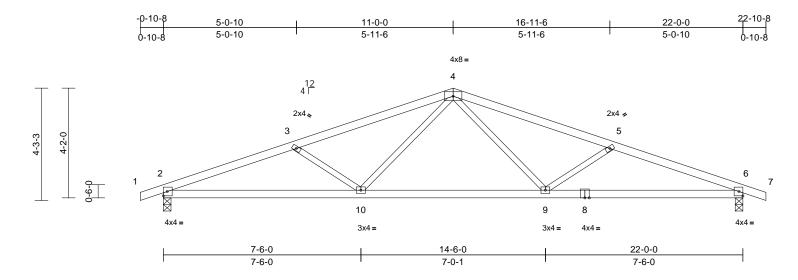
Job	Truss	Truss Type	Qty	Ply	Lot 131 H4
H4131	G2	Common	5	1	Job Reference (options

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 24 06:9): 🗚 ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J42

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978021 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:43.7

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	0.52	Vert(LL)	-0.12	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.22	2-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.06	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	9-10	>999	240	Weight: 67 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-5-15 oc purlins.

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

bracing.

REACTIONS (lb/size) 2=1048/0-3-8, 6=1048/0-3-8

Max Horiz 2=70 (LC 12)

Max Uplift 2=-187 (LC 4), 6=-187 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-2209/355, 3-4=-1883/253,

4-5=-1883/253, 5-6=-2209/355, 6-7=0/6

BOT CHORD 2-10=-335/2029, 9-10=-127/1384,

6-9=-283/2029

WEBS 4-9=-52/528, 5-9=-417/224, 4-10=-52/528,

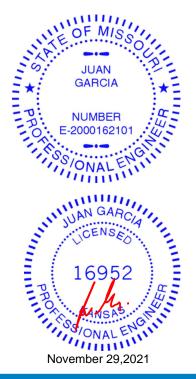
3-10=-417/223

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 2 and 187 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







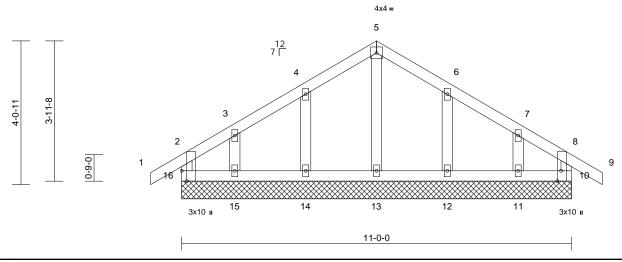
Ply Job Truss Truss Type Qtv Lot 131 H4 H4131 H₅ Common Supported Gable Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978022 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 25 06:0):(ID:CE6VMFpH?UjHlw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7





Scale = 1:32.5

Plate Offsets (X, Y): [10:0-3-8,Edge], [16:0-3-8,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)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 42 lb	FT = 10%

LUMBER

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

BRACING

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

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

bracing.

10=136/11-0-0, 11=133/11-0-0, REACTIONS (lb/size) 12=197/11-0-0, 13=174/11-0-0,

14=197/11-0-0, 15=133/11-0-0, 16=136/11-0-0

Max Horiz 16=-117 (LC 6)

Max Uplift 10=-19 (LC 8), 11=-66 (LC 9), 12=-65 (LC 9), 14=-65 (LC 8),

15=-70 (LC 8), 16=-34 (LC 4) 10=140 (LC 22), 11=155 (LC 16), 12=201 (LC 16), 13=174 (LC 1), Max Grav

14=200 (LC 21), 15=163 (LC 15),

16=140 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-16=-125/31, 1-2=0/36, 2-3=-66/68, TOP CHORD 3-4=-48/72, 4-5=-42/96, 5-6=-33/87,

6-7=-32/65, 7-8=-41/50, 8-9=0/36,

8-10=-125/24

BOT CHORD 15-16=-52/56, 14-15=-52/56, 13-14=-52/56,

12-13=-52/56, 11-12=-52/56, 10-11=-52/56 WFBS 5-13=-135/0. 4-14=-160/91. 3-15=-119/81.

6-12=-160/91, 7-11=-115/79

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 16, 19 lb uplift at joint 10, 65 lb uplift at joint 14, 70 lb uplift at joint 15, 65 lb uplift at joint 12 and 66 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



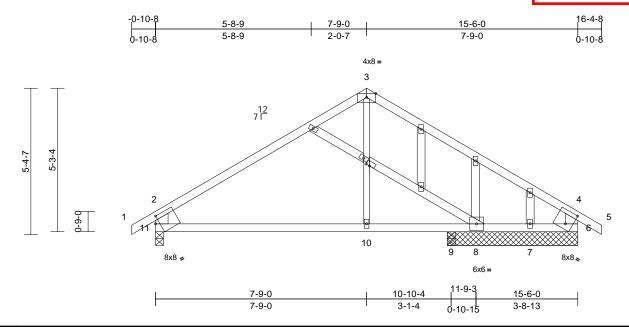
November 29,2021



Ply Job Truss Truss Type Qty Lot 131 H4 H4131 H₆ Common Structural Gable Job Reference (optional RELEASE FOR CONSTRUCTION DEVELOPMENT SERVICES 148978023 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Non Nov 23 06:0): ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbG<mark>k</mark>WrCDoi7



Scale = 1:42.3

Plate Offsets (X, Y): [6:0-3-1,0-5-11], [11:0-1-11,0-2-15], [13:0-1-12,Edge]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.09	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.18	10-11	>725	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.03	10-11	>999	240	Weight: 61 lb	FT = 10%

LUMBER

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

2x6 SPF No.2 *Except* 10-3:2x3 SPF No.2, WEBS

12-13.13-8:2x4 SPF No.2

OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-5-7 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size)

6=670/4-9-8, 7=69/4-9-8, 8=43/4-9-8, 9=-14/0-3-8,

11=741/0-3-8

Max Horiz 11=153 (LC 7)

Max Uplift 6=-88 (LC 8), 7=-163 (LC 9), 8=-45 (LC 5), 9=-65 (LC 21), 11=-125 (LC

6=670 (LC 1), 7=179 (LC 22), Max Grav

8=109 (LC 21), 9=100 (LC 8),

11=741 (LC 1)

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

Tension

TOP CHORD 1-2=0/39, 2-3=-770/123, 3-4=-773/164,

> 4-5=0/39, 2-11=-677/188, 4-6=-683/174 10-11=-51/549, 9-10=-51/549, 8-9=-51/549,

BOT CHORD 7-8=-51/549, 6-7=-51/549

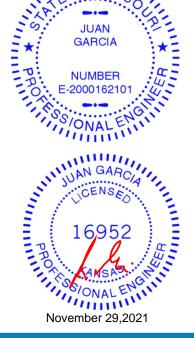
WEBS 3-10=0/274

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 11, 88 lb uplift at joint 6, 45 lb uplift at joint 8, 163 lb uplift at joint 7 and 65 lb uplift at joint 9.
- 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

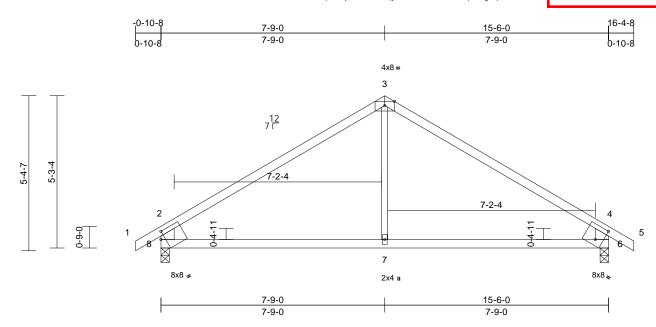




Ply Truss Type Qty Job Truss Lot 131 H4 H4131 H7 Common 5 Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978024 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Non Nov 25 06:00:(ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7



Scale = 1:39.9

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	0.71	Vert(LL)	-0.06	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.13	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.05	7-8	>999	240	Weight: 46 lb	FT = 10%

LUMBER

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

2x6 SPF No.2 *Except* 7-3:2x3 SPF No.2 WEBS

BRACING

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) 6=754/0-3-8, 8=754/0-3-8

Max Horiz 8=153 (LC 7)

Max Uplift 6=-105 (LC 9), 8=-105 (LC 8) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/39, 2-3=-802/121, 3-4=-802/121,

4-5=0/39, 2-8=-694/163, 4-6=-694/163

BOT CHORD 7-8=-13/569, 6-7=-13/569

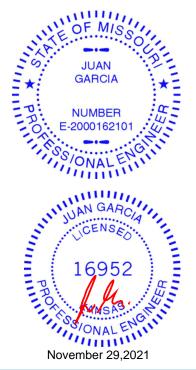
WEBS 3-7=0/332

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 8 and 105 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





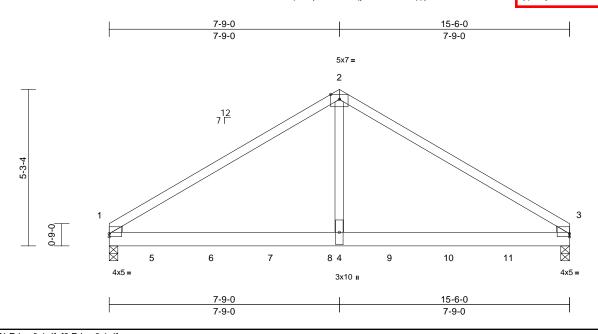


Ply Job Truss Truss Type Qty Lot 131 H4 H4131 **H8** Common Girder 2 Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978025 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 E Oct 22 2021 Print: 8.430 E Oct 22 2021 MiTek Industries, Inc. Non Nov 25 14:1) ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-unf3nBeppjFiO5H8arGihrOml?OS23NHjq0tZ_yEIV



Scale = 1:38.8

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

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	0.88	Vert(LL)	-0.08	1-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.16	1-4	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	1-4	>999	240	Weight: 125 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x6 SP 2400F 2.0E 2x4 SPF No.2 WEBS Left: 2x3 SPF No.2 WEDGE Right: 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 1=2639/0-3-8 3=2485/0-3-8

Max Horiz 1=127 (LC 26)

Max Uplift 1=-455 (LC 8), 3=-426 (LC 9) (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 1-2=-3193/562, 2-3=-3194/562

BOT CHORD 1-4=-401/2577, 3-4=-401/2577

WEBS 2-4=-398/2731

NOTES

FORCES

- 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
 - Bottom chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc
 - Web connected as follows: 2x4 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 455 lb uplift at joint 1 and 426 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 536 lb down and 103 lb up at 1-5-4, 536 lb down and 103 lb up at 3-5-4, 536 lb down and 103 lb up at 5-5-4, 536 lb down and 103 lb up at 7-5-4, 536 lb down and 103 lb up at 9-5-4, and 536 lb down and 103 lb up at 11-5-4, and 536 lb down and 103 lb up at 13-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

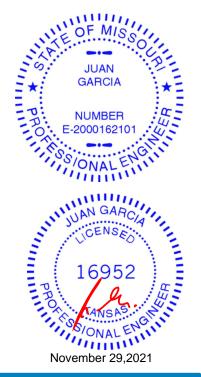
Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

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

Concentrated Loads (lb)

Vert: 5=-536 (B), 6=-536 (B), 7=-536 (B), 8=-536 (B), 9=-536 (B), 10=-536 (B), 11=-536 (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

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



Ply Qty Job Truss Truss Type Lot 131 H4 H4131 J3 Jack-Closed 2

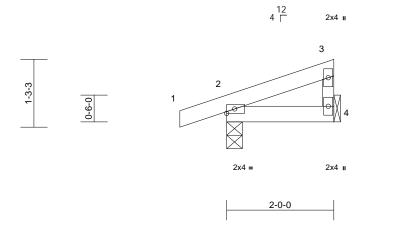
Wheeler Lumber, Waverly, KS - 66871,

LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 29 06 3. 4 ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbG (WrCDoi7J42

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 148978026

-0-10-8	2-0-0
0-10-8	2-0-0



Scale = 1:21.5

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

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (lb/size) 2=163/0-3-8, 4=69/ Mechanical

Max Horiz 2=39 (LC 5)

Max Uplift 2=-60 (LC 4), 4=-14 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

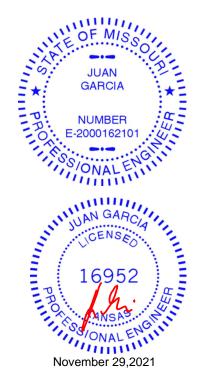
Tension

TOP CHORD 1-2=0/6, 2-3=-41/15, 3-4=-50/26 BOT CHORD 2-4=-12/9

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 4 and 60 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





Ply Qty Job Truss Truss Type Lot 131 H4 H4131 J4 Jack-Closed Supported Gable Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

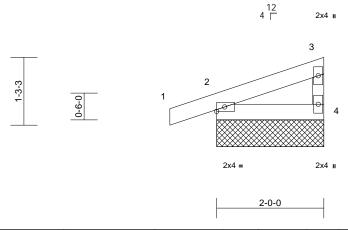
Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Non Nov 29 06:00:00 ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J44

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 148978027

LEE'S SUMMIT. MISSOURI

-0-10-8	2-0-0
0-10-8	2-0-0



Scale	=	1:21	.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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 6 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 2-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 2=161/2-0-0, 4=71/2-0-0

Max Horiz 2=39 (LC 5)

Max Uplift 2=-58 (LC 4), 4=-15 (LC 8) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-40/16, 3-4=-52/26

BOT CHORD 2-4=-12/9

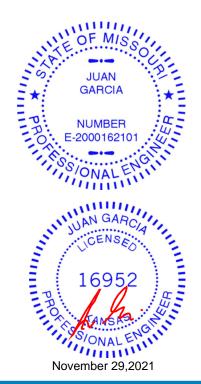
NOTES

FORCES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 4 and 58 lb uplift at joint 2.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

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

LOAD CASE(S) Standard





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

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

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

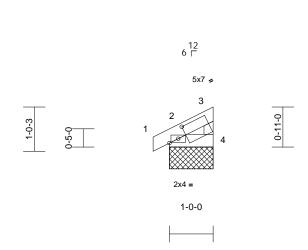


Ply Job Truss Truss Type Qty Lot 131 H4 H4131 J5 Jack-Closed Supported Gable 2 Job Reference (optional

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 06:03:04 ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J42





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=25 (LC 7)

Max Uplift 2=-26 (LC 8), 4=-9 (LC 16) Max Grav 2=106 (LC 1), 4=12 (LC 4)

(lb) - Maximum Compression/Maximum Tension

1-2=0/6, 2-3=-37/10, 3-4=-9/14

TOP CHORD **BOT CHORD** 2-4=-8/6

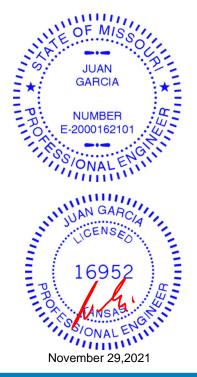
NOTES

FORCES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 4 and 26 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



RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 148978028

LEE'S SUMMIT. MISSOURI



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



Truss Type Ply Job Truss Qty Lot 131 H4 H4131 J6 Jack-Closed 2 Job Reference (optional

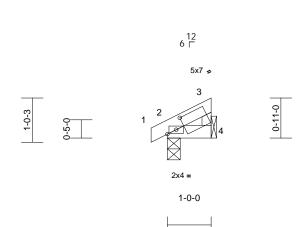
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978029 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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 06:03:06 ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J42





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	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 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=25 (LC 5)

Max Uplift 2=-15 (LC 8), 4=-9 (LC 8) (lb) - Maximum Compression/Maximum **FORCES**

Tension

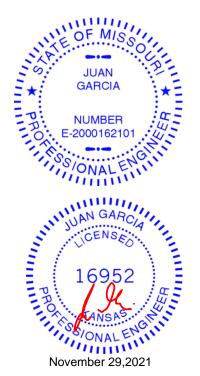
TOP CHORD 1-2=0/5, 2-3=-26/10, 3-4=-24/14

BOT CHORD 2-4=-8/6

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 4 and 15 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or 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



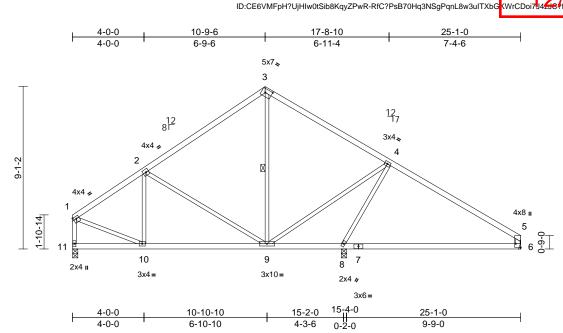
Job	Truss	Truss Type	Qty	Ply	Lot 131 H4
H4131	K1	Roof Special	7	1	Job Reference (optional

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 24 06:0):08

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978030 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:64.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.20	6-8	>602	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.39	6-8	>305	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	9-10	>999	240	Weight: 95 lb	FT = 10%

LUMBER

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

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

6-0-0 oc bracing: 8-9.

WEBS 1 Row at midpt

REACTIONS (lb/size) 6=556/ Mechanical, 8=930/0-3-8,

11=748/0-3-8 Max Horiz 11=-251 (LC 4)

Max Uplift 6=-91 (LC 9), 8=-83 (LC 9), 11=-82

(LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-747/98, 2-3=-553/174, 3-4=-537/159,

4-5=-601/142, 1-11=-725/92, 5-6=-465/148 10-11=-220/236, 9-10=-128/685,

8-9=-10/188, 6-8=-36/424

WEBS 2-10=-122/102 2-9=-362/193 3-9=-25/205

1-10=-54/644, 4-9=-112/468, 4-8=-868/212

NOTES

BOT CHORD

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

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 11, 91 lb uplift at joint 6 and 83 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



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

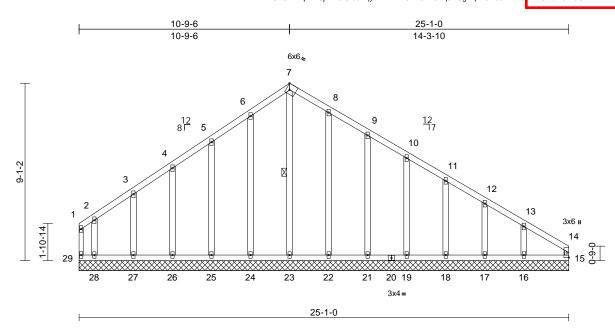


Job Truss Truss Type Qty Ply Lot 131 H4 H4131 K2 Roof Special Supported Gable Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978031 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 25 06:00:(ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J42



Scale = 1:59

Plate Offsets	(X,	Y):	[7:Edge,0-3-8]	
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		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	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.01	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 130 lb	FT = 10%

LUMBER	
TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2
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 10-0-0 oc

bracing.

WEBS 1 Row at midpt

REACTIONS (lb/size) 15=83/25-1-0, 16=215/25-1-0, 17=170/25-1-0, 18=182/25-1-0, 19=180/25-1-0, 21=179/25-1-0,

22=187/25-1-0. 23=162/25-1-0. 24=187/25-1-0, 25=179/25-1-0, 26=179/25-1-0, 27=187/25-1-0, 28=135/25-1-0, 29=13/25-1-0

Max Horiz 29=-251 (LC 4)

Max Uplift 15=-125 (LC 5), 16=-127 (LC 9), 17=-43 (LC 9), 18=-66 (LC 9), 19=-60 (LC 9), 21=-65 (LC 9), 22=-56 (LC 9), 23=-29 (LC 6),

24=-63 (LC 8), 25=-75 (LC 8), 26=-69 (LC 8), 27=-71 (LC 8), 28=-121 (LC 8), 29=-99 (LC 6) 15=187 (LC 6), 16=273 (LC 16),

Max Grav 17=170 (LC 1), 18=191 (LC 16), 19=183 (LC 16), 21=182 (LC 16), 22=196 (LC 16), 23=264 (LC 8), 24=192 (LC 15), 25=187 (LC 15), 26=186 (LC 15), 27=191 (LC 15), 28=216 (LC 15), 29=111 (LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-29=-58/45, 1-2=-67/44, 2-3=-45/68

3-4=-59/106, 4-5=-76/149, 5-6=-93/217 6-7=-114/278, 7-8=-124/281, 8-9=-143/255, 9-10=-158/222, 10-11=-173/192, 11-12=-189/194, 12-13=-201/193, 13-14=-234/222, 14-15=-146/109 28-29=-192/207, 27-28=-192/207, 26-27=-192/207, 25-26=-192/207,

24-25=-192/207, 23-24=-192/207, 22-23=-192/207, 21-22=-192/207, 19-21=-192/207, 18-19=-192/207 17-18=-192/207, 16-17=-192/207, 15-16=-192/207

WEBS 7-23=-240/69, 6-24=-152/87, 5-25=-147/99, 4-26=-146/92, 3-27=-152/97, 2-28=-143/108, 8-22=-156/80, 9-21=-142/89, 10-19=-144/84, 11-18=-148/88, 12-17=-133/74, 13-16=-195/125

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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
- 1 This truss has been designed for a live load of 20-upst on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. M/S
 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 23, 63 lb uplift at joint 24, 75 lb uplift at joint 25, 69 lb uplift at joint 24, 75 lb uplift at joint 25, 69 lb uplift at joint 26, 71 lb uplift at joint 27, 12 lb uplift at joint 28, 68 lb 26, 71 lb uplift at joint 27, 121 lb uplift at joint 28, 56 lb uplift at joint 22, 65 lb uplift at joint 21, 60 lb uplift at joint
- 19, 66 lb uplift at joint 18, 43 lb uplift at joint 17 and 127 lb uplift at joint 16, NUMBER

 11) This truss is designed in accordance with the 2018 International Residential Code sections R502, 13, 1 and R802.10.2 and referenced standard ANSI/TPL1 LOAD CASE(S) Standard SONAL



November 29,2021



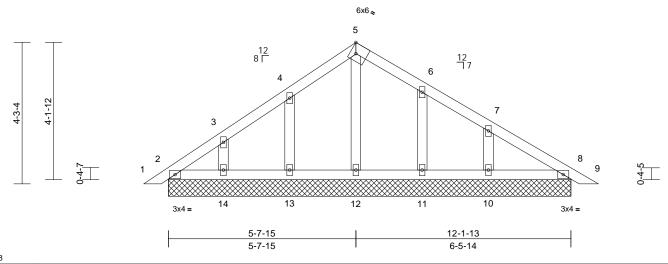


Ply Job Truss Truss Type Qtv Lot 131 H4 H4131 Р1 Piggyback Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978032 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Non Nov 25 06:00: ID:CE6VMFpH?UjHlw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7U42





Scale = 1:34.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 44 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.

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

bracing.

REACTIONS (lb/size) 2=108/12-1-13, 8=144/12-1-13,

10=229/12-1-13, 11=172/12-1-13, 12=150/12-1-13, 13=188/12-1-13,

14=174/12-1-13

Max Horiz 2=-107 (LC 6)

Max Uplift 2=-17 (LC 4), 8=-9 (LC 9), 10=-79 (LC 9), 11=-60 (LC 9), 13=-76 (LC

8), 14=-70 (LC 8)

Max Grav 2=109 (LC 16), 8=144 (LC 1), 10=236 (LC 16), 11=178 (LC 16), 12=152 (LC 18), 13=198 (LC 15),

14=182 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/17, 2-3=-94/81, 3-4=-87/63, TOP CHORD 4-5=-75/99, 5-6=-58/87, 6-7=-57/41,

7-8=-71/46, 8-9=0/17

BOT CHORD 2-14=-33/73, 13-14=-33/73, 12-13=-33/73,

11-12=-33/73, 10-11=-33/73, 8-10=-33/73

WEBS 5-12=-110/0, 4-13=-159/100, 3-14=-139/91,

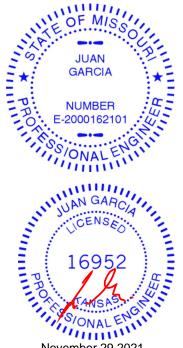
6-11=-144/84, 7-10=-176/104

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1. All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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 17 lb uplift at joint 2. 9 lb uplift at joint 8, 76 lb uplift at joint 13, 70 lb uplift at joint 14, 60 lb uplift at joint 11 and 79 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.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



November 29,2021



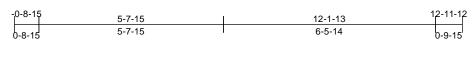
Ply Job Truss Truss Type Qty Lot 131 H4 H4131 P2 Piggyback 6 Job Reference (optional

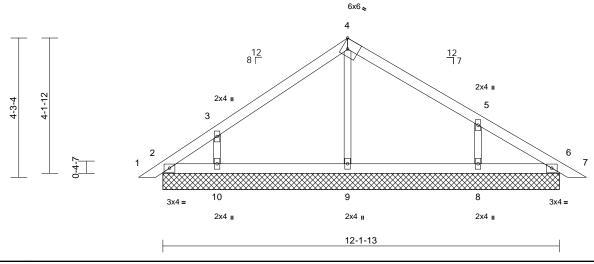
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978033 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Non Nov 25 06:00: ID:CE6VMFpH?UjHlw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7





Scale = 1:35.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 37 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size)

2=83/12-1-13, 6=138/12-1-13, 8=337/12-1-13, 9=291/12-1-13, 10=316/12-1-13

Max Horiz 2=107 (LC 7)

2=-33 (LC 4), 6=-5 (LC 8), 8=-125 Max Uplift

(LC 9), 10=-138 (LC 8)

Max Grav 2=95 (LC 16), 6=138 (LC 1), 8=352 (LC 16), 9=291 (LC 1), 10=337 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-104/85, 3-4=-142/97, 4-5=-128/78, 5-6=-92/37, 6-7=0/17

BOT CHORD 2-10=-25/73, 9-10=-25/73, 8-9=-25/73, 6-8=-25/73

WFBS 4-9=-206/25, 3-10=-278/183, 5-8=-281/166

NOTES

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

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 2, 5 lb uplift at joint 6, 138 lb uplift at joint 10 and 125 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard





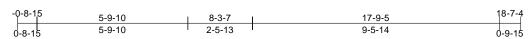
Ply Job Truss Truss Type Qtv Lot 131 H4 H4131 РЗ Piggyback Job Reference (optional

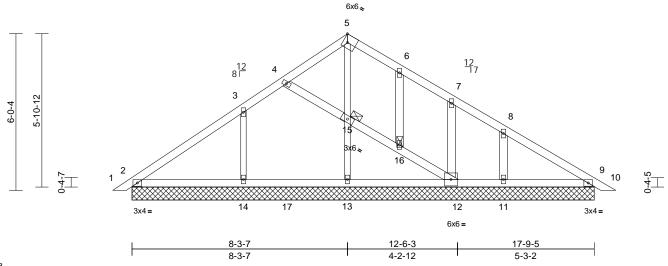
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978034 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Non Nov 25 06:0): ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7





Scale = 1:44.3 Plate Offsets (X, Y): [5:Edge,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 70 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 13-5:2x3 SPF No.2 WEBS **OTHERS** 2x4 SPF No.2 *Except* 3-14:2x3 SPF No.2

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins.

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

bracing.

JOINTS 1 Brace at Jt(s): 15,

REACTIONS (lb/size) 2=240/17-9-5 9=179/17-9-5

11=271/17-9-5, 12=301/17-9-5, 13=289/17-9-5, 14=391/17-9-5

Max Horiz 2=-153 (LC 6)

Max Uplift 2=-31 (LC 9), 11=-100 (LC 9),

12=-103 (LC 9), 14=-137 (LC 8) 2=240 (LC 1), 9=183 (LC 22), Max Grav

11=325 (LC 16), 12=333 (LC 16),

13=364 (LC 15), 14=486 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/17, 2-3=-175/88, 3-4=-158/127, TOP CHORD

4-5=-92/137, 5-6=-53/117, 6-7=-97/89,

7-8=-55/28, 8-9=-87/73, 9-10=0/17 **BOT CHORD** 2-14=-47/108, 13-14=-47/108,

12-13=-47/108, 11-12=-45/115, 9-11=-45/115 **WEBS**

13-15=-210/0, 5-15=-185/2, 4-15=-68/51,

15-16=-64/48, 12-16=-70/54, 6-16=-50/29, 7-12=-203/122, 8-11=-212/120,

3-14=-301/179

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2, 103 lb uplift at joint 12, 100 lb uplift at joint 11 and 137 lb uplift at joint 14.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard





Ply Job Truss Truss Type Qtv Lot 131 H4 P4 H4131 Piggyback 5 Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978035 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Non Nov 25 06:03: ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbG<mark>k</mark>WrCDoi7

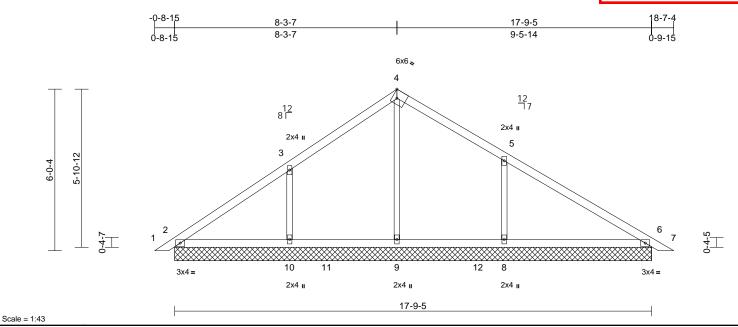


Plate Offsets (X, Y): [4:Edge,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	n/a	-	n/a	999	1	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 55 lb	FT = 10%

LUMBER

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

2=211/17-9-5, 6=261/17-9-5, 8=526/17-9-5, 9=227/17-9-5, 10=447/17-9-5

Max Horiz 2=-153 (LC 6)

2=-21 (LC 9), 6=-25 (LC 9), 8=-184 Max Uplift

(LC 9), 10=-179 (LC 8)

Max Grav 2=223 (LC 16), 6=267 (LC 16),

8=643 (LC 16), 9=338 (LC 18),

10=549 (LC 15) (lb) - Maximum Compression/Maximum

Tension

1-2=0/17, 2-3=-149/117, 3-4=-146/137,

4-5=-131/121, 5-6=-128/86, 6-7=0/17 BOT CHORD 2-10=-46/105, 9-10=-46/105, 8-9=-46/105,

6-8=-46/105

WFBS 4-9=-173/0, 3-10=-358/224, 5-8=-412/235

NOTES

FORCES

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

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 2, 25 lb uplift at joint 6, 179 lb uplift at joint 10 and 184 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard





Ply Job Truss Truss Type Qty Lot 131 H4 H4131 V₁A Valley

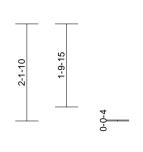
Wheeler Lumber, Waverly, KS - 66871,

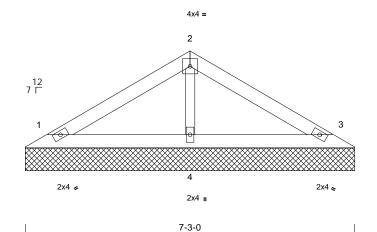
Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978036 LEE'S SUMMIT. MISSOURI

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 24 06:0): ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J42

1	3-7-8	6-9-1	7-3-0
Ī	3-7-8	3-1-9	0-5-15





Scale = 1:25.3

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)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 18 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=152/7-3-0, 3=152/7-3-0,

4=257/7-3-0

Max Horiz 1=48 (LC 5)

Max Uplift 1=-34 (LC 8), 3=-40 (LC 9) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-86/45, 2-3=-83/33 BOT CHORD 1-4=-9/39, 3-4=-9/39 **WEBS**

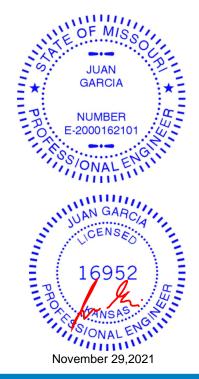
2-4=-179/46

NOTES

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

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 1 and 40 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







Ply Job Truss Truss Type Qty Lot 131 H4 H4131 V2A Valley

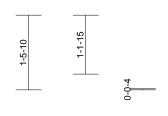
DEVELOPMENT SERVICES 148978037 LEE'S SUMMIT. MISSOURI Job Reference (optional

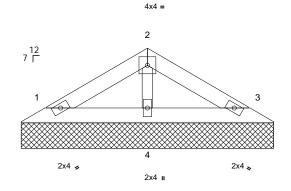
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 24 06:0): ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J42

		4-11-9
2-5-13	4-5-10	
2-5-13	1-11-14	
		0-5-15





4-11-9

Scale = 1:22.7

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	0.07	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	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-7 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=96/4-11-9, 3=96/4-11-9,

4=163/4-11-9

Max Horiz 1=-30 (LC 4)

Max Uplift 1=-22 (LC 8), 3=-26 (LC 9)

(lb) - Maximum Compression/Maximum

Tension

1-2=-55/28, 2-3=-52/21 TOP CHORD BOT CHORD 1-4=-6/25, 3-4=-6/25 **WEBS**

2-4=-114/29

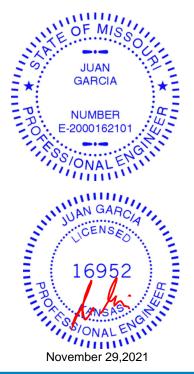
NOTES

FORCES

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

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1 and 26 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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



Ply Qty Job Truss Truss Type Lot 131 H4 H4131 V3A Valley Job Reference (optional

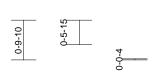
Wheeler Lumber, Waverly, KS - 66871,

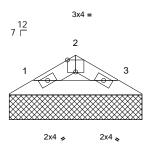
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S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978038 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION







2-8-2

Scale = 1:23.2

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	0.01	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 5 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

2-9-0 oc purlins.

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

bracing.

1=75/2-8-2, 3=75/2-8-2 REACTIONS (lb/size)

Max Horiz 1=13 (LC 5)

Max Uplift 1=-9 (LC 8), 3=-9 (LC 9) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-70/21, 2-3=-70/21

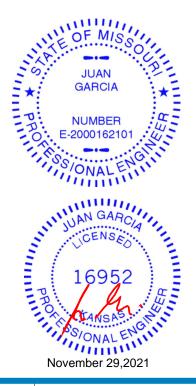
BOT CHORD 1-3=-11/50

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 9 lb uplift at joint 1 and 9 lb uplift at joint 3.

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

LOAD CASE(S) Standard





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

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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

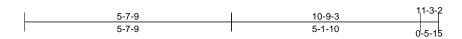


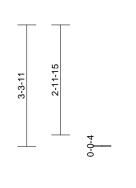
Job	Truss	Truss Type	Qty	Ply	Lot 131 H4
H4131	V4A	Valley	1	1	Job Reference (options

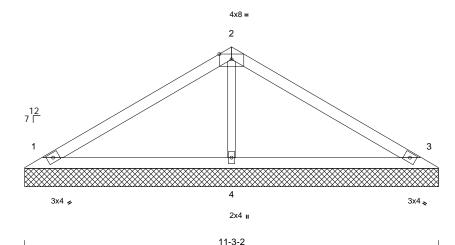
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 24 06:0): ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7U42

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978039 LEE'S SUMMIT. MISSOURI







Scale = 1:31.4

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	0.37	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 29 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=227/11-3-2, 3=227/11-3-2,

4=469/11-3-2

Max Horiz 1=-78 (LC 4)

1=-45 (LC 8), 3=-55 (LC 9), 4=-22 Max Uplift

(LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-156/76, 2-3=-156/56

BOT CHORD 1-4=-14/71, 3-4=-14/71

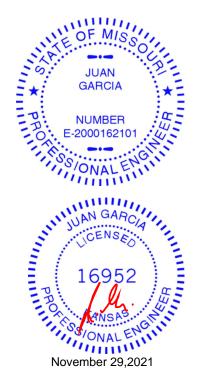
WEBS 2-4=-314/81

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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 45 lb uplift at joint 1, 55 lb uplift at joint 3 and 22 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 131 H4 H4131 V5A Valley Job Reference (optional

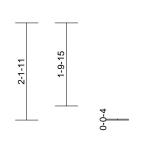
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978040 LEE'S SUMMIT. MISSOURI

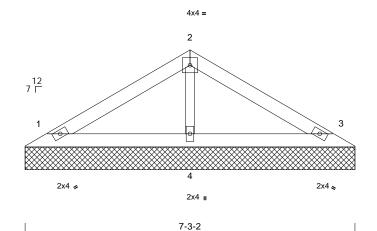
RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Non Nov 25 06:0 ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7







Scale = 1:25.4

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 18 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=152/7-3-2, 3=152/7-3-2,

4=258/7-3-2

Max Horiz 1=-48 (LC 4)

Max Uplift 1=-34 (LC 8), 3=-40 (LC 9)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-86/45, 2-3=-83/33 BOT CHORD 1-4=-9/40, 3-4=-9/40

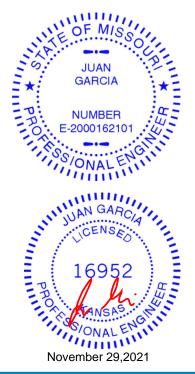
WEBS 2-4=-180/46

NOTES

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

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 1 and 40 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





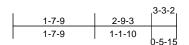


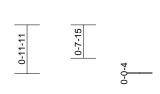
Ply Qty Job Truss Truss Type Lot 131 H4 H4131 V₆A Valley Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 148978041 LEE'S SUMMIT. MISSOURI

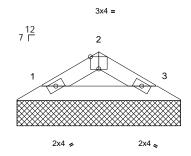
RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Mon Nov 24 06:0): ID:CE6VMFpH?UjHIw0tSib8KqyZPwR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J42







3-3-2

Scale = 1:23

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

3-4-0 oc purlins.

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

bracing.

1=101/3-3-2, 3=101/3-3-2 REACTIONS (lb/size)

Max Horiz 1=17 (LC 7)

Max Uplift 1=-12 (LC 8), 3=-12 (LC 9)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-94/28, 2-3=-94/28

BOT CHORD 1-3=-15/67

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 12 lb uplift at joint 1 and 12 lb uplift at joint 3.

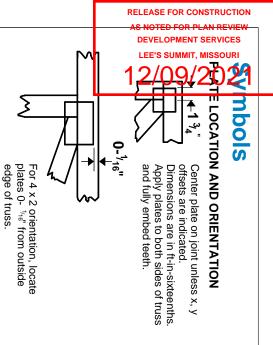
This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



November 29,2021





* Plate location details available in MiTek 20/20 software or upon request.

connector plates.

This symbol indicates the required direction of slots in

PLATE SIZE

4 × 4

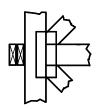
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

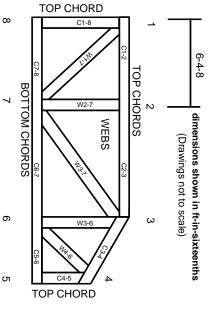
Min size shown is for crushing only

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

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