



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

Re: 2928314

SUMMIT/HAWTHORN RIDGE #134/MO

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Valley Center).

Pages or sheets covered by this seal: I47835306 thru I47835368

My license renewal date for the state of Missouri is December 31, 2021.

Missouri COA: Engineering 001193



September 12,2021

Sevier, Scott

,Engineer

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 or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO 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 Qty Ply SUMMIT/HAWTHORN RIDGE #134/MO 147835306 2928314 A1 Roof Special Girder Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:03:35 2021 Page 1

41-7-12

Structural wood sheathing directly applied or 3-5-12 oc purlins,

7-24, 12-16

2-0-0 oc purlins (3-0-4 max.): 3-7, 8-10, 11-13.

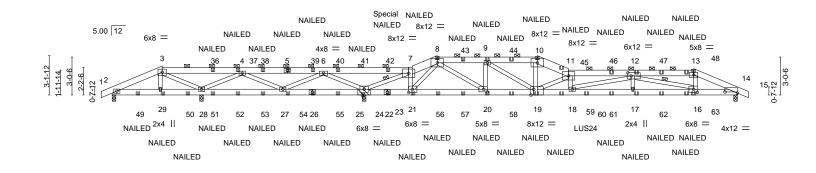
Rigid ceiling directly applied or 5-2-9 oc bracing.

46-6-0

50-0-0

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-0A6F5xY8X_4mWJLNHhi85DwOcQdBtMVznRdwyEyfKLc -0₁10₁8 4-0-0 0-10-8 4-0-0 10-4-12 16-10-12 20-1-12 24-0-0 26-0-0 29-10-4 34-0-0 36-6-0 41-7-12 46-6-0 50-0-0 50-10-8 6-4-12 6-6-0 3-3-0 3-10-4 2-0-0 3-10-4 4-1-12 2-6-0 5-1-12 3-6-0 0-10-8

Scale = 1:92.1



	-	4-0-0 3-1-12	6-6-0	6-6-0	3-10-4	2-0-0 3	-10-4	4-1-12	2-6-0	5-1-12	4-10-4	3-6-0
Plate Offs	sets (X,Y)	[12:0-3-4,0-3-0], [14:1-0-	0,0-1-2], [16:0	-3-8,0-3-0], [19:0	-2-12,Edge],	[20:0-3-8,0-2-	8], [21:0-3-	8,0-3-0]				
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (le	oc) I/def	L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.	72	Vert(LL)	-0.46 17-	-18 >785	240		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.	74	Vert(CT)	-0.82 17-	-18 >437	180			
BCLL	0.0	Rep Stress Incr	NO	WB 0.	39	Horz(CT)	0.07	14 n/a	n/a			
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-M	s					,	Weight: 261 lb	FT = 20%

BOT CHORD

26-0-0 29-10-4 34-0-0 36-6-0

except

1 Row at midpt

24-0-0

LUMBER-**BRACING-**TOP CHORD 2x6 SPF No 2 *Except* TOP CHORD

13-7-12

3-5,11-13,5-7: 2x6 SPF 2100F 1.8E, 7-8,10-11: 2x8 SP 2400F 2.0E

2x6 SPF 2100F 1.8E *Except* **BOT CHORD**

4-0-0 7-1-12

19-22: 2x6 SPF No.2, 22-26: 2x6 SP 2400F 2.0E

2x4 SPF No.2

WEBS WEBS REACTIONS.

All bearings 0-3-8 except (jt=length) 24=0-3-13 (input: 0-3-8 + bearing block). Max Horz 2=-26(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 28 except 24=-811(LC 4), 14=-335(LC 9)

All reactions 250 lb or less at joint(s) except 2=527(LC 1), 28=682(LC 21), 24=4613(LC 1), Max Grav

20-1-12

14=1887(I C 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

 $2\hbox{-}3\hbox{-}640/52, \, 4\hbox{-}6\hbox{-}438/1996, \, 6\hbox{-}7\hbox{-}-1166/6343, \, 7\hbox{-}8\hbox{-}-136/946, \, 8\hbox{-}9\hbox{-}-3441/713, \, \\$ TOP CHORD

9-10=-4766/947, 10-11=-5061/995, 11-12=-8199/1558, 12-13=-3630/707, 13-14=-4075/773

BOT CHORD 2-29=-37/576, 28-29=-37/552, 27-28=-657/97, 24-27=-3535/659, 21-24=-898/190,

20-21=-199/1017, 19-20=-657/3441, 18-19=-1526/8203, 17-18=-1324/7104,

16-17=-1324/7104, 14-16=-682/3741

WEBS 3-29=-4/296, 3-28=-881/114, 7-24=-6060/1138, 9-20=-1296/294, 9-19=-291/1583,

10-19=-256/1467, 12-17=0/341, 12-16=-3635/692, 13-16=-189/1216, 4-28=-147/703,

4-27=-1559/432, 6-27=-205/1753, 6-24=-3312/665, 11-19=-4065/750, 12-18=-214/1144,

8-20=-558/2952, 7-21=-457/2522, 8-21=-2897/574

NOTES-

- 1) 2x6 SP 2400F 2.0E bearing block 12" long at jt. 24 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SP 2400F 2.0E.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 4x6 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 28 except (it=lb) 24=811, 14=335,
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 37-11-4 from the left end to connect

SCOTT M. SEVIER OFFISSIONAL STONAL PE-2001018807

OF MISS

September 12,2021

Continued on page 2 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	SUMMIT/HAWTHORN RIDGE #134/MO
					147835306
2928314	A1	Roof Special Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:03:36 2021 Page 2 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-UMgdIHZmIICd8TwZrODNdQTZMqzQcpI705MTUgyfKLb

NOTES-

- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 48 lb down and 32 lb up at 23-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) 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
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-70, 3-7=-70, 7-8=-70, 8-10=-70, 10-11=-70, 11-13=-70, 13-15=-70, 30-33=-20

Concentrated Loads (lb)

Vert: 5=-47(F) 8=-83(F) 10=-83(F) 13=-3(F) 26=-24(F) 29=-170(F) 9=-83(F) 20=-81(F) 19=-81(F) 12=-34(F) 17=-46(F) 16=-103(F) 22=-208(F) 21=-175(F) 36=-47(F) 37=-47(F) 38=-47(F) 39=-47(F) 40=-47(F) 41=-91(F) 43=-83(F) 44=-83(F) 46=-34(F) 47=-34(F) 48=-34(F) 49=-106(F) 50=-177(F) 51=-24(F) 52=-24(F) 53=-24(F) 54--24(F) 55--24(F) 56--81(F) 57--81(F) 58--81(F) 59--175(F) 60--215(F) 61--48(F) 62--46(F) 63--46(F)

Job Truss Truss Type Qty Ply SUMMIT/HAWTHORN RIDGE #134/MO 147835307 2928314 A2 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:03:55 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-R0JpInohq7bxvOtDSu3qvRlqEUP9ZSnwNZT_f3yfKLI

26-0-0

5-10-4

28-0-0

2-0-0

32-0-0

4-0-0

34-8-6

2-8-6

39-8-6

5-0-0

44-8-6

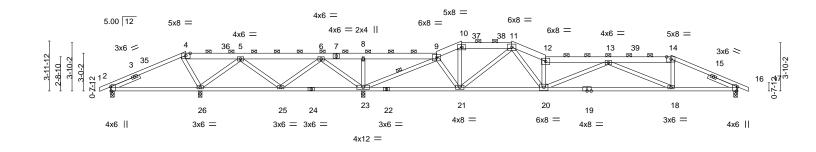
5-0-0

Scale = 1:91.9

50-0-0

50-0-0

5-3-10



	6-0	-0 1-1-12	6-5-2	6-6-14	'	5-10-4 '2-0-0	0 ' 4-0-0 '	2-8-6 '	1	0-0-0	5-3-10 '
Plate Offsets (X	Y) [2:0-3	-15,Edge], [4:0-4-	2,Edge], [14:0-	-4-2,Edge], [16:	:0-3-15,Ed	ge]					
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL 25.0		Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.31 18-20	>999	240	MT20	197/144
TCDL 10.0		Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.69 18-20	>517	180		
BCLL 0.0		Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.07 16	n/a	n/a		
BCDL 10.0		Code IRC2018/	ΓPI2014	Matrix	-AS	, ,				Weight: 217	lb FT = 20%
DODE 10.0		0000 11102010/	11 12017	IVICUIX	710					Weight. 217	10 11 = 2070

BRACING-

TOP CHORD

BOT CHORD

WEBS

26-0-0

₁28-0-0₁

32-0-0

34-8-6

Rigid ceiling directly applied.

1 Row at midpt

44-8-6

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-3-12 max.): 4-9, 10-11, 12-14.

9-23

LUMBER-

TOP CHORD 2x6 SPF No 2 *Except* 1-4,14-17: 2x4 SPF No.2

6-0-0

7₋1-12

13-6-14

BOT CHORD 2x4 SPF No.2 *Except*

22-24: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

REACTIONS. All bearings 0-3-8.

(lb) -Max Horz 2=33(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 23 except 26=-217(LC 26) Max Grav All reactions 250 lb or less at joint(s) except 2=491(LC 1), 26=391(LC 25),

16=1154(LC 1), 23=2814(LC 1)

10-4-5

4-4-5

6-0-0

16-9-7

6-5-2

20-1-12

3-4-5

20-1-12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4=-440/145, 4-5=-329/140, 5-6=-42/784, 6-8=-305/2664, 8-9=-304/2665,

9-10=-712/163, 10-11=-637/165, 11-12=-2764/406, 12-13=-2615/367, 13-14=-1831/275,

14-16=-2057/274

BOT CHORD 2-26=-78/398, 25-26=-200/282, 23-25=-1504/204, 20-21=-155/1460, 18-20=-356/2737,

16-18=-191/1858

WEBS 9-23=-3042/438, 9-21=-63/1005, 11-21=-1103/145, 11-20=-202/1833, 12-20=-1244/215,

13-18=-1002/190, 14-18=-3/570, 8-23=-404/89, 5-26=-44/568, 5-25=-909/189,

6-25=-104/1074, 6-23=-1573/231

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 28-0-0, Exterior(2R) 28-0-0 to 31-0-0, Interior(1) 31-0-0 to 32-0-0, Exterior(2E) 32-0-0 to 34-8-6, Interior(1) 34-8-6 to 44-8-6, Exterior(2R) 44-8-6 to 47-8-6, Interior(1) 47-8-6 to 50-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 23 except (it=lb) 26=217.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835308 2928314 A3 Roof Special Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

21-4-0

14-0-14

6-0-14

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:03:57 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-NPRZjTpxMkse9i0cal5I_sqBfl6c1NADrsy4kyyfKLG 28-0-0 30-0-0 32-10-13 2-0-0 2-10-13 37-10-13 42-10-13 6-8-0 5-0-0 5-0-0

Structural wood sheathing directly applied, except

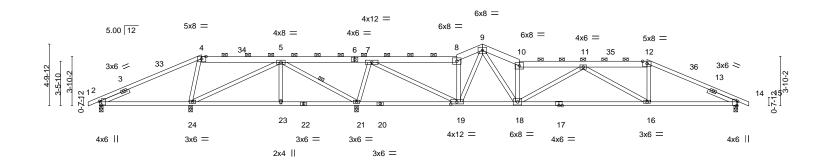
5-21

2-0-0 oc purlins (5-0-10 max.): 4-8, 10-12.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:90.2



	<u> </u>	7-0-0 8-0-0 7-0-0 1-0-0	14-0-14 6-0-14	20-1-12 6-0-14	28-0-0 7-10-4	32-10-13 4-10-13	42-10-13 10-0-0	50-	0-0 1-3
Plate Offse	ets (X,Y)	[2:0-3-7,0-2-0], [4:0-4-2,	Edge], [12:0-4-	2,Edge], [14:0-3-1	5,Edge], [19:0-5-12,0-2-0]			
LOADING TCLL TCDL BCLL	25.0 10.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC 0.62 BC 0.85 WB 0.61	Vert(CT)	in (loc) -0.30 16-18 -0.65 16-18 0.04 14	l/defl L/d >999 240 >548 180 n/a n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-AS				Weight: 223 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x6 SPF No.2 *Except*

1-4: 2x4 SP 2400F 2.0E, 12-15: 2x4 SPF No.2

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

20-22: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

-0₋10₋8 0-10-8

8-0-0

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

REACTIONS. All bearings 0-3-8.

Max Horz 2=-42(LC 17) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 24, 21, 14

Max Grav All reactions 250 lb or less at joint(s) except 2=575(LC 25), 24=317(LC

25), 21=2712(LC 1), 14=1185(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4=-514/205, 4-5=-555/246, 5-7=-117/1694, 7-8=-901/189, 8-9=-981/222, 9-10=-2098/333, 10-11=-1951/290, 11-12=-1819/284, 12-14=-2044/277

BOT CHORD 2-24=-120/477, 23-24=-473/190, 21-23=-473/190, 19-21=-1352/170, 18-19=-73/1031,

16-18=-266/2251, 14-16=-179/1834

WEBS 5-24=-168/779, 5-21=-1747/240, 7-21=-1712/261, 7-19=-278/2505, 8-19=-634/165,

9-19=-551/8, 9-18=-200/1643, 10-18=-1045/197, 11-18=-425/96, 11-16=-511/111,

12-16=0/473. 4-24=-324/78

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 30-0-0, Exterior(2E) 30-0-0 to 32-10-13, Interior(1) 32-10-13 to 42-10-13, Exterior(2R) 42-10-13 to 45-10-13, Interior(1) 45-10-13 to 50-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 24, 21, 14.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 12,2021



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Job Truss Truss Type Qty Ply SUMMIT/HAWTHORN RIDGE #134/MO 147835309 2928314 A4 Roof Special Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:03:58 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-rb?xwpqa62_Vnsbo80dXW3NMghUImktM3WheGOyfKLF 45-4-14 50-0-0 4-3-10 4-7-2

Structural wood sheathing directly applied, except

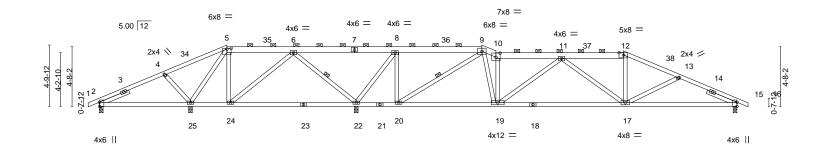
6-22, 9-20

2-0-0 oc purlins (5-9-3 max.): 5-9, 10-12.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:90.4



		7-1-12 10-0-0 10-		1 20-1-12	23-4-0	25-0-14 ₁ 30-0	-0 31-1-3	41-1-3	1	50-0-0	
	ļ į	7-1-12 ¹ 2-10-4 0-	3 <u>l</u> 8 4-11-2	¹ 4-11-2	3-2-4	¹ 1-8-14 ¹ 4-11	-2 1-1-3 ^l	10-0-0	l	8-10-13	
Plate Off	sets (X,Y)	[2:0-3-15,Edge], [5:0-4-0,	0-0-12], [10:0-4	4-0,0-3-15], [12:0-	4-2,Edg	e]					
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl L/d	PLATE	S GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC 0.60)	Vert(LL)	-0.20 17-19	>999 240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC 0.76	6	Vert(CT)	-0.45 17-19	>800 180			
BCLL	0.0	Rep Stress Incr	YES	WB 0.97	'	Horz(CT)	0.05 15	n/a n/a			
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix-AS					Weight:	226 lb FT = 20	%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

2x6 SPF No.2 *Except*

1-5.12-16: 2x4 SPF No.2 **BOT CHORD**

2x4 SPF No.2 *Except*

21-23: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

REACTIONS. All bearings 0-3-8.

(lb) -Max Horz 2=42(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 15 except 22=-115(LC 9) Max Grav All reactions 250 lb or less at joint(s) except 2=364(LC 25), 25=588(LC 25), 15=1156(LC 26), 22=2726(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4=-513/42, 6-8=-157/1730, 8-9=0/555, 9-10=-1331/226, 10-11=-1240/209,

11-12=-1606/254, 12-13=-1778/255, 13-15=-1982/287

BOT CHORD 22-24=-650/136, 20-22=-554/126, 19-20=-60/933, 17-19=-177/1706, 15-17=-206/1790 **WEBS** 4-25=-396/119, 10-19=-585/109, 11-19=-591/120, 12-17=0/384, 5-24=-312/96,

6-24=-40/703, 6-22=-1453/221, 9-20=-1772/217, 9-19=-105/1186, 8-20=-91/1023,

8-22=-1976/292

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 30-0-0, Exterior(2E) 30-0-0 to 31-1-3, Interior(1) 31-1-3 to 41-1-3, Exterior(2R) 41-1-3 to 44-1-3, Interior(1) 44-1-3 to 50-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 3x6 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 25, 15 except (it=lb) 22=115.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 12,2021



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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 SUMMIT/HAWTHORN RIDGE #134/MO 147835310 2928314 A5 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:00 2021 Page 1

28-0-0

7-10-4

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-n_6iLVsqefED09IAFRf?bUSiaV8tEi2fXqAlLHyfKLD <u>32</u>-5-14 37-5-14 42-5-14 50-0-0 5-0-0 5-0-0 7-6-2

Structural wood sheathing directly applied, except

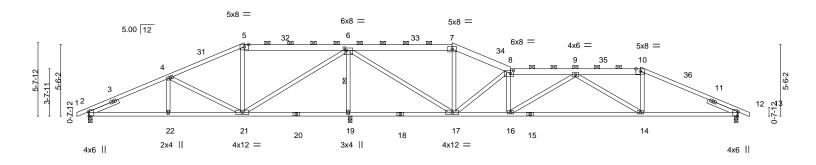
6-19

2-0-0 oc purlins (5-5-9 max.): 5-7, 8-10.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:88.7



	1-12 12-0-0 1-12 5-10-4		0-1-12 3-1-12	28-0-0 7-10-4	32-5-14 4-5-14		2-5-14 0-0-0	50-0-0 7-6-2	
Plate Offsets (X,Y)	[2:0-3-15,Edge], [5:0-4-2	,Edge], [6:0-2-0,	,0-2-4], [8:0-2	!-12,0-3-0], [10:0-4-2,Edg	e], [12:0-3-15,Edg	e]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TI	2-0-0 1.15 1.15 YES	BC (DEFL. 0.51 Vert(LL 0.82 Vert(CT 0.73 Horz(C	0.62 14-16	>999 2 >585 1	40 N 80 n/a		GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except* 1-5,10-13: 2x4 SPF No.2

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

18-20: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

-0₋10₋8 0-10-8

6-1-12

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 19=0-3-8, 12=0-3-8

Max Horz 2=50(LC 12)

Max Uplift 2=-60(LC 12), 19=-79(LC 9), 12=-75(LC 13) Max Grav 2=714(LC 25), 19=2912(LC 1), 12=1164(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-4=-884/135, 4-5=-406/314, 5-6=-317/263, 6-7=-542/199, 7-8=-632/184, TOP CHORD

12-0-0

5-10-4

20-0-0

8-0-0

8-9=-1700/293, 9-10=-1754/294, 10-12=-1909/278

BOT CHORD 2-22=-105/873, 21-22=-105/873, 19-21=-1410/202, 17-19=-1410/202, 16-17=-184/1715,

14-16=-247/2050, 12-14=-184/1765 **WEBS** 4-21=-683/123, 5-21=-440/100, 6-21=-181/1634, 6-19=-2716/396, 6-17=-262/2219,

8-17=-1484/204, 8-16=0/434, 9-16=-447/96, 9-14=-357/94, 10-14=0/416

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 28-0-0, Exterior(2R) 28-0-0 to 31-0-0, Interior(1) 31-0-0 to 42-5-14, Exterior(2R) 42-5-14 to 45-5-14, Interior(1) 45-5-14 to 50-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 3x6 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 12.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 12,2021



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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 SUMMIT/HAWTHORN RIDGE #134/MO 147835311 2928314 A6 Roof Special Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:01 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-FAg4YqtSPzM4eJKNp8AE8i?oHvUEz9homUwltjyfKLC

44-3-7

Structural wood sheathing directly applied, except

7-21

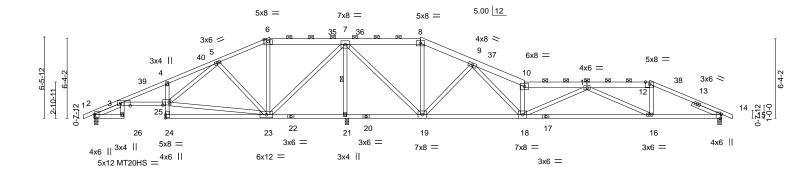
2-0-0 oc purlins (4-11-0 max.): 6-8, 10-12.

Rigid ceiling directly applied.

1 Row at midpt

2-4-8																							
-0 _г 10 _т 8		-8-0	1	9-10-0	- 1	14-0-0	1	20-0-0	20-1-	12	26-0-0	1	30-1-12	1	34-3-7	, 3	9-3-7	1	44-3-7		50-0-0	50-10 _F 8	i
0-10-8 2-4-8	3-	3-8	1	4-2-0	- 1	4-2-0	1	6-0-0	0-1 1	12	5-10-4		4-1-12	1	4-1-12	'	5-0-0	1	5-0-0	1	5-8-9	0-10-8	

Scale = 1:91.9



3-3-8 8-4-0	·	6-0-0	0-1-12 5	-10-4	8-3-7		10-0-0	5-8	-9
2:0-2-12,0-0-8], [3:0-9-3,Ec	lge], [12:0-4-2,E	dge], [14:	:0-3-15,Edg	je], [25:0-6-4,0-2-1	2]				
SPACING- 2	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.26 16-18	>999	240	MT20	197/144
Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.57 16-18	>630	180	MT20HS	148/108
Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.15 21	n/a	n/a		
Code IRC2018/TPI2	014	Matrix	-AS					Weight: 241 lb	FT = 20%
	2:0-2-12,0-0-8], [3:0-9-3,Ec SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2:0-2-12,0-0-8], [3:0-9-3,Edge], [12:0-4-2,E SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	2:0-2-12,0-0-8], [3:0-9-3,Edge], [12:0-4-2,Edge], [14 SPACING-	2:0-2-12,0-0-8], [3:0-9-3,Edge], [12:0-4-2,Edge], [14:0-3-15,Edge] SPACING-	SPACING- 2-0-0 CSI. DEFL. Plate Grip DOL 1.15 TC 0.84 Vert(LL) Lumber DOL 1.15 BC 0.81 Vert(CT) Rep Stress Incr YES WB 0.71 Horz(CT)	2:0-2-12,0-0-8], [3:0-9-3,Edge], [12:0-4-2,Edge], [14:0-3-15,Edge], [25:0-6-4,0-2-12] SPACING- 2-0-0 CSI. DEFL. in (loc) Plate Grip DOL 1.15 TC 0.84 Vert(LL) -0.26 16-18 Lumber DOL 1.15 BC 0.81 Vert(CT) -0.57 16-18 Rep Stress Incr YES WB 0.71 Horz(CT) 0.15 21	2:0-2-12,0-0-8], [3:0-9-3,Edge], [12:0-4-2,Edge], [14:0-3-15,Edge], [25:0-6-4,0-2-12] SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl Plate Grip DOL 1.15 TC 0.84 Vert(LL) -0.26 16-18 >999 Lumber DOL 1.15 BC 0.81 Vert(CT) -0.57 16-18 >630 Rep Stress Incr YES WB 0.71 Horz(CT) 0.15 21 n/a	SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d	SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES

BRACING-

TOP CHORD

BOT CHORD

WEBS

34-3-7

26-0-0

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except* 12-15,1-6: 2x4 SPF No.2

2-4-8 5-8-0

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

20-22: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 2-3-4, Right 2x4 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 21=0-3-8

Max Horz 2=97(LC 12)

Max Uplift 2=-62(LC 12), 14=-241(LC 13), 21=-361(LC 9) Max Grav 2=384(LC 25), 14=1097(LC 26), 21=3415(LC 1)

14-0-0

20-0-0

20-1-12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

6-7=-44/916, 7-8=-169/902, 8-9=-212/1001, 9-10=-2199/687, 10-11=-2053/613, TOP CHORD

11-12=-1700/415, 12-14=-1908/426, 3-28=-650/181, 3-4=-383/503, 4-5=-329/481,

5-6=-87/1050

BOT CHORD 3-25=-462/350, 4-25=-339/140, 21-23=-2264/353, 19-21=-2264/353, 18-19=-696/665,

16-18=-569/2339, 14-16=-323/1720

WEBS 23-25=-625/103, 5-25=-175/733, 5-23=-521/184, 6-23=-697/105, 8-19=-581/114,

9-19=-1186/316, 9-18=-409/1958, 10-18=-1106/362, 11-18=-636/175, 11-16=-718/276,

12-16=-48/476, 7-21=-3280/492, 7-23=-255/1863, 7-19=-266/2136

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior(1) 4-1-8 to 13-9-11, Exterior(2R) 13-9-11 to 18-9-11, Interior(1) 18-9-11 to 26-0-0, Exterior(2R) 26-0-0 to 31-0-0, Interior(1) 31-0-0 to 44-3-7, Exterior(2R) 44-3-7 to 49-4-0, Interior(1) 49-4-0 to 50-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 14=241, 21=361,
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



50-0-0

September 12,2021



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Job Truss Truss Type Qty Ply SUMMIT/HAWTHORN RIDGE #134/MO 147835312 2928314 Α7 **ROOF SPECIAL** Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

-0₁10₁8 2-9-8 5-3-0

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:04 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-glMCBsvKiukfVn3yUHjxmKdHZ6XDAV6FSS8yU2yfKL9 38-6-3 41-1-1 43-7-15 46-1-1 50-0-0 2-5-2 2-6-14 2-6-14 2-5-2 3-10-15

38-6-3 41-1-1 43-7-15 46-1-1 50-0-0

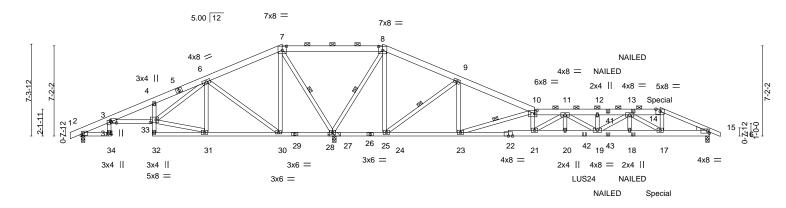
Structural wood sheathing directly applied or 3-1-12 oc purlins,

7-27, 8-27, 9-24, 10-23

2-0-0 oc purlins (3-1-8 max.): 7-8, 10-14.

Rigid ceiling directly applied or 3-5-9 oc bracing.

Scale = 1:91.7



	2-4-	8 0-5-0 2-5-8 0-5-0 4-5-4 0	6-4 5-4-8	4-0-0 0-1-12 3-10-4	6-0-8	6-0-8	2-5-2 2-6-1	4 2-6-14 2-5-2	3-10-15
Plate Off	sets (X,Y)	[3:0-1-4,0-0-13], [3:0-5-3	,0-1-1], [7:0-4-0),0-4-0], [8:0-4-0,0-3-12], [10:0-2-4,0-3-0], [14:0	-4-2,Edge], [33:0-5	5-8,0-2-8]		
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.96	Vert(LL) -0.	36 20-21 >991	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.73	Vert(CT) -0.	55 20-21 >653	180		
BCLL	0.0	Rep Stress Incr	NO	WB 0.79	Horz(CT) -0.	18 27 n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-MS				Weight: 264 lb	FT = 20%

30-0-8

BOT CHORD

WFBS

36-1-1

except

20-0-0 20-1-12 24-0-0

LUMBER-**BRACING-**TOP CHORD

TOP CHORD 2x6 SPF No.2 *Except* 14-16: 2x4 SPF No.2, 1-5: 2x6 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except*

15-22: 2x6 SPF 2100F 1.8E, 22-25: 2x4 SPF 1650F 1.5E

25-29: 2x4 SP 2400F 2.0E

10-1-4

10-7-8

16-0-0

WEBS 2x4 SPF No.2

2-4-8 2-9-8 5-3-0 5-8-0

WEDGE

Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 27=0-3-8, 15=0-3-8

Max Horz 2=67(LC 8)

Max Uplift 2=-444(LC 22), 27=-225(LC 5), 15=-256(LC 9) Max Grav 2=205(LC 18), 27=4256(LC 1), 15=1567(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 3-36=-79/265, 3-4=-399/2169, 4-6=-365/2127, 6-7=-151/2205, 7-8=-157/3082,

8-9=-152/1955, 9-10=-136/826, 10-11=-3353/612, 11-12=-4854/903, 12-13=-4854/903, 13-14=-2610/489, 14-15=-2943/526

BOT CHORD 3-33=-2089/484, 4-33=-270/149, 30-31=-1476/283, 27-30=-1979/280, 24-27=-1765/219,

23-24=-733/151, 21-23=-575/3416, 20-21=-815/4603, 19-20=-815/4603, 18-19=-719/4160,

17-18=-719/4160. 15-17=-451/2676

WEBS 6-30=-850/97, 7-30=-12/589, 7-27=-2186/133, 8-27=-2611/210, 8-24=-113/1132,

9-24=-1765/267, 9-23=-120/1146, 10-23=-3481/574, 10-21=-104/854, 14-17=-115/905, 11-21=-1604/322, 11-20=-96/434, 11-19=-162/732, 13-19=-168/829, 13-17=-1859/331,

6-31=-18/457, 31-33=-1379/261, 6-33=-610/401

NOTES-

- 1) 2x4 SP 2400F 2.0E bearing block 12" long at jt. 27 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SP 2400F 2.0E.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 4x6 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=444, 27=225, 15=256.
- 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.

Continued on page 2 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



OFFISSIONAL STONAL

16023 Swingley Ridge Rd Chesterfield, MO 63017

OF MISS

SCOTT M.

SEVIER

PE-2001018807

September 12,2021

Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE #134/MO
					147835312
2928314	A7	ROOF SPECIAL	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:04 2021 Page 2 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-glMCBsvKiukfVn3yUHjxmKdHZ6XDAV6FSS8yU2yfKL9

NOTES-

- 10) Use Simpson Strong-Tie LUS24 (4-SD9112 Girder, 2-SD9212 Truss, Single Ply Girder) or equivalent at 40-0-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 235 lb down and 136 lb up at 46-1-1 on top chord, and 112 lb down and 37 lb up at 45-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) 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

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-70, 3-7=-70, 7-8=-70, 8-10=-70, 10-14=-70, 14-16=-70, 34-35=-20, 3-33=-20, 32-38=-20

Concentrated Loads (lb)

Vert: 14=-117(B) 17=-112(B) 18=-41(B) 13=-61(B) 41=-61(B) 42=-580(B) 43=-41(B)

Job Truss Truss Type Qty Ply SUMMIT/HAWTHORN RIDGE #134/MO 147835313 2928314 HIP **A8** Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:06 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-c8UzbYwbEV_Nk4CKchmPrlikowGCeO8Xvmd3YxyfKL7 30-10-4 32-6-1 33-9-11 2-11-7 1-7-13 1-3-10

Structural wood sheathing directly applied, except

7-16, 6-16

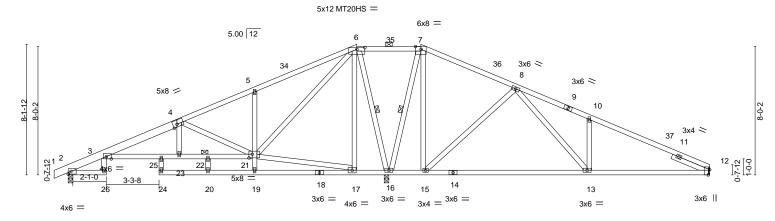
2-0-0 oc purlins (10-0-0 max.): 6-7.

Rigid ceiling directly applied.

1 Row at midpt

1 Brace at Jt(s): 22

Scale = 1:71.8



	20-0-0												
								19-1	0-4				
- 1	2-4-8	2+9-18	5-8-0	6-11-2	8-8-10	11-7-8	18-0-0	19-8-8	22-0-0	30-10-4	32-6-1	40-0-0	
ı	2-4-8	0-5-0	2-10-8	1-3-2	1-9-8	2-10-14	6-4-8	1-8-8	2-0-0	8-10-4	1-7-13	7-5-15	
	0-1-12												
	0-1-12												

Plate Offs	Plate Offsets (X,Y) [3:0-3-12,Edge], [4:0-3-0,Edge], [6:0-6-0,0-1-5], [7:0-4-2,Edge], [12:0-3-15,Edge], [21:0-2-8,0-2-12]													
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (l	loc)	l/defl	L/d	PLATES	GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.19 13	-15	>999	240	MT20	197/144		
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.38 13	-15	>637	180	MT20HS	148/108		
BCLL	0.0	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.11	16	n/a	n/a				
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	(-AS						Weight: 202 lb	FT = 20%		

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except* 1-4: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

14-18: 2x4 SP 2400F 2.0E **WEBS** 2x4 SPF No.2

SLIDER Right 2x4 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 12=Mechanical, 16=0-3-8

Max Horz 2=132(LC 12)

Max Uplift 2=-59(LC 12), 12=-173(LC 13), 16=-384(LC 12) Max Grav 2=471(LC 25), 12=631(LC 26), 16=2843(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

 $3-4 = -451/85,\ 4-5 = -80/430,\ 5-6 = 0/418,\ 6-7 = -164/1335,\ 7-8 = -203/1105,\ 8-10 = -885/465,$ TOP CHORD

10-12=-842/495

BOT CHORD $3-25=-90/414,\ 23-25=-90/413,\ 22-23=-89/422,\ 21-22=-89/422,\ 16-17=-978/250,$

15-16=-1008/305, 13-15=-749/249, 12-13=-420/754

WEBS 5-21=-427/190, 17-21=-985/245, 6-17=0/329, 7-15=-55/724, 6-21=-251/967,

4-21=-738/190, 7-16=-1474/119, 6-16=-1434/273, 8-15=-812/239, 8-13=-157/903,

10-13=-456/184

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- $2) \ \ Wind: ASCE\ 7-16; \ Vult=115 mph\ (3-second\ gust)\ \ Vasd=91 mph; \ TCDL=6.0 psf; \ BCDL=4.2 psf; \ h=15 ft; \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True for the property of the$ MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-2-12, Interior(1) 2-2-12 to 18-0-0, Exterior(2E) 18-0-0 to 22-0-0, Exterior(2R) 22-0-0 to 26-2-15, Interior(1) 26-2-15 to 40-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 12=173, 16=384.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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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

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



SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835314 2928314 A9 Common Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:07 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-4K1LpuxD?p6EMEnX9PHeOzFwEJZdNyth8QNc4NyfKL6

26-6-13

33-1-11

6-6-13

Structural wood sheathing directly applied.

7-15, 8-15, 6-15

Rigid ceiling directly applied.

1 Row at midpt

20-0-0

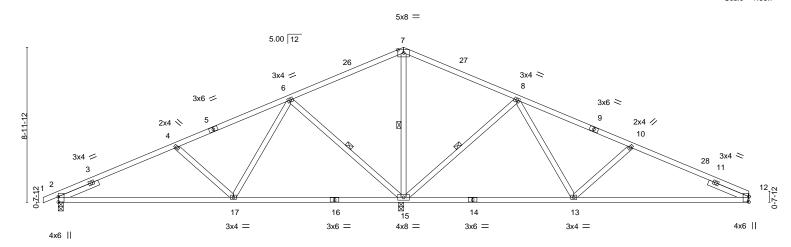
6-6-13

6-6-13

Scale = 1:66.7

40-0-0

6-10-5



	10-1-12	19-8-8	20 ₇ 0-0	29-10-4	40-0-0		
	10-1-12	9-6-12	0-3-8	9-10-4	10-1-12		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.49 BC 0.68 WB 0.34 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/defl -0.15 13-24 >999 -0.32 13-24 >751 0.02 15 n/a	L/d 240 180 n/a		GRIP 97/144 FT = 20%

BRACING-TOP CHORD

WFBS

BOT CHORD

LUMBER-

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

6-10-5

14-16: 2x4 SP 2400F 2.0E

WFBS 2x4 SPF No 2

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 12=Mechanical

Max Horz 2=143(LC 16)

Max Uplift 2=-125(LC 12), 15=-247(LC 12), 12=-128(LC 13) Max Grav 2=791(LC 25), 15=2288(LC 1), 12=730(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-1043/188, 4-6=-751/135, 6-7=-33/651, 7-8=-15/651, 8-10=-759/185,

10-12=-1061/238

BOT CHORD $2\text{-}17\text{=-}238/963,\ 15\text{-}17\text{=-}87/319,\ 13\text{-}15\text{=-}90/324,\ 12\text{-}13\text{=-}151/973}$

WEBS 7-15=-867/112, 8-15=-922/271, 8-13=-65/622, 10-13=-496/200, 6-15=-921/271,

6-17=-67/617, 4-17=-492/202

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 40-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=125, 15=247, 12=128.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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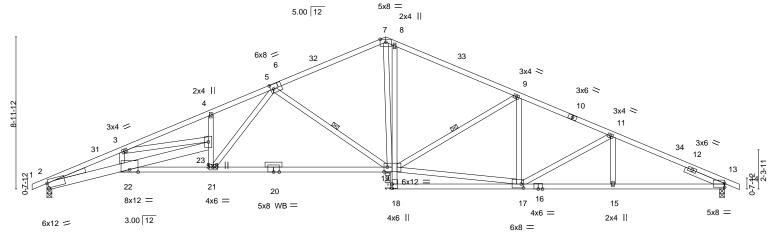


Job Truss Truss Type Qty Ply SUMMIT/HAWTHORN RIDGE #134/MO 147835315 2928314 4 A10 Roof Special Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:03:37 2021 Page 1

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-yZD?WdaP3bKUldVmP6kcAe?htEFiLHAGEl6116yfKLa -0-10₋₈ 12-1-12 20-0-0 20-4-8 0-4-8 <u>26-9-13</u> 27-10-4 1-0-7 33-3-3 40-0-0 40-10-8 0-10-8 4-3-8 2-5-12 7-10-4 6-8-13

Scale = 1:68.0



	4-3-8	9-8-0	12-1-12	20-4-8	27-10-4	30-0-8	33-3-3	40-0-0	1
	4-3-8	5-4-8	2-5-12	8-2-12	7-5-12	2-2-4	3-2-11	6-8-13	7
te Off	sets (X,Y)	[2:0-0-11,0-3-7], [6:	:0-2-0,0-3-4], [13:6	Edge,0-2-11], [17:0-1-8,0-2-12], [19	:0-2-4,0-3-4]				

BRACING-

TOP CHORD

BOT CHORD

WFBS

Structural wood sheathing directly applied.

9-19. 5-19

Rigid ceiling directly applied.

1 Row at midpt

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.93	Vert(LL) -0.47 19-21 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 1.00	Vert(CT) -1.11 19-21 >433 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.81	Horz(CT) 0.35 13 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	, ,	Weight: 194 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

2-23: 2x6 SPF 2100F 1.8E, 20-22,13-16: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3

SLIDER Right 2x4 SPF No.2 2-6-0

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

Max Horz 2=138(I C 12)

Max Uplift 2=-248(LC 12), 13=-248(LC 13) Max Grav 2=1861(LC 1), 13=1861(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-6173/879, 3-4=-4353/527, 4-5=-4375/603, 5-7=-2617/389, 7-8=-2584/441,

8-9=-2749/398, 9-11=-3171/413, 11-13=-3537/454

BOT CHORD 2-22=-903/5663, 22-23=-383/1630, 21-22=-526/4075, 19-21=-394/3266, 8-19=-320/258,

15-17=-337/3192, 13-15=-337/3192

WEBS 3-22=-13/418, 7-19=-282/1552, 17-19=-222/2856, 9-19=-622/222, 5-19=-1127/297, 11-17=-403/142, 21-23=-836/238, 4-23=-342/134, 5-21=-181/1213, 3-23=-1638/395

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=248, 13=248.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



September 12,2021

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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



SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835316 2928314 A10A Roof Special Job Reference (optional) Builders FirstSource (Valley Center), 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:03:39 2021 Page 1 Valley Center, KS - 67147, ID:ggMHuYjvKTSNSqRK_pqYByzXhju-vxLmxJcfbDaC?xe8WWn4F353q1ywp9WZi3b85?yfKLY 7-10-8 20-0-0 6-3-4 4-3-8 7-5-8 9-4-4 11-1-3 13-8-12 0-11-0 1-5-12 1-9-0 2-7-9 0-5-0 Scale = 1:70.4 5x8 = 2x4 || 7 5.00 12 37 3x6 = 3x4 > 5x8 = 3x6 ≥ 5 6x8 = 10 3x4 <

6x8 = 7-10-8 9-4-4 7-5-8 8-4-4 11-1-3 0-11-0 1-0-0 1-9-0 0-5-0

18

3x4 ||

6x12

Plate Off	sets (X,Y)	[13:Edge,0-2-11], [17:0-3	3-0,0-3-0], [19	:0-2-4,0-3-4],	[20:0-5-0,0-	2-8], [22:0-4-8,0-2-	12], [23:0-4-8,0)-2-12], [2	25:1-6-2,0-2-	0]		
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.44 19-20	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.96 19-20	>502	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.39 13	n/a	n/a			
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-AS					Weight: 207 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except* 1-5: 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except*

2x4 ||

4x6 =

2x4 || 3.00 12

2-22: 2x6 SPF 2100F 1.8E, 13-16: 2x4 SPF 1650F 1.5E

21

2x4

Ш

8x12 \\

20

6x12 =

WEBS 2x4 SPF No.2

4x12 =

SLIDER Right 2x4 SPF No.2 2-6-0

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

Max Horz 2=141(LC 12)

Max Uplift 2=-248(LC 12), 13=-248(LC 13) Max Grav 2=1861(LC 1), 13=1861(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

7-8=-2528/427, 8-9=-2724/402, 9-11=-3100/409, 11-13=-3553/456, 2-3=-6863/952, TOP CHORD

3-4=-6742/992, 4-5=-4037/506, 5-6=-3948/532, 6-7=-2601/392 2-24=-973/6353, 23-24=-1038/7397, 22-23=-568/3504, 19-20=-371/3196, 8-19=-138/281,

BOT CHORD 15-17=-340/3209, 13-15=-340/3209

WEBS 17-19=-211/2770, 9-19=-569/213, 11-17=-519/169, 20-22=-1777/320, 4-23=-240/2102,

7-19=-239/1461, 6-19=-1096/280, 4-22=-3518/571, 20-23=-463/3860, 4-24=-1123/82,

6-20=-132/951

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=248, 13=248,
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



11

15

2x4 ||

16

4x6 =

Structural wood sheathing directly applied.

6-19

Rigid ceiling directly applied. Except:

9-8-0 oc bracing: 23-24

1 Row at midpt

17

3x6 > 35 12

5x8 =

September 12,2021



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 SUMMIT/HAWTHORN RIDGE #134/MO 147835317 2928314 2 A11 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:03:40 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-N8v88fcHMWj3c5DK4EIJoGdC4RIFYcXjxjKhdRyfKLX 12-1-12 11-11-12 2-1-12 0-2-0 4-3-8 28₁0-4 33-5-8 35-8-8 0-2-0 2-1-12 3-3-8 2-3-0 Scale = 1:68.5 5x8 = 5.00 12 3x6 = 3x6 > 3x6 = 3x6 < 8 9 5 10 3x4 = 3x4 > 11 20 19 8x12 = 8x12 = 4x6 = 4x8 = 4x6 = 4x8 = 5x8 = 6x12 > 3.00 12 6x12 =

_Plate Off	sets (X,Y)	[2:0-0-14,0-1-11], [12:0-0-14,0	-1-11]					
LOADIN	G (psf)	SPACING- 2-0	-0 CSI .	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	15 TC 0.93	Vert(LL) -0.5	18 >934	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.1	15 BC 0.94	Vert(CT) -1.0	6 16-18 >453	180		
BCLL	0.0	Rep Stress Incr YE	S WB 0.90	Horz(CT) 0.4	l9 12 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	4 Matrix-AS				Weight: 205 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

20-0-0 6-8-12

28-0-4

27-10-4 1-3-15 1-3-15

30-2-0

Structural wood sheathing directly applied.

6-18, 8-18

Rigid ceiling directly applied. Except:

10-0-0 oc bracing: 16-18, 14-16

9-11-0 oc bracing: 20-21

1 Brace at Jt(s): 15, 16

1 Row at midpt

LUMBER-

TOP CHORD 2x4 SPF No 2

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

2-22,12-15: 2x6 SPF 2100F 1.8E

19-21,14-17,17-19: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

WEDGE

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

REACTIONS. (size) 2=0-3-8, 12=0-3-8

Max Horz 2=138(LC 12)

Max Uplift 2=-248(LC 12), 12=-248(LC 13) Max Grav 2=1861(LC 1), 12=1861(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-6194/880, 3-4=-4304/530, 4-6=-4275/575, 6-7=-2708/391, 7-8=-2708/390,

8-10=-4275/532, 10-11=-4304/486, 11-12=-6194/758

BOT CHORD 2-21=-904/5685, 21-22=-394/1720, 20-21=-516/4009, 18-20=-447/3502, 16-18=-317/3502,

14-16=-345/4009, 14-15=-318/1720, 12-14=-650/5685

WEBS 3-21=-4/419, 11-14=0/419, 7-18=-113/1447, 6-18=-1259/334, 20-22=-736/181, 6-20=-113/946, 15-16=-736/160, 11-15=-1708/326, 3-22=-1708/397, 8-16=-93/946,

8-18=-1259/319

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=248, 12=248,
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



September 12,2021



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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 SUMMIT/HAWTHORN RIDGE #134/MO 147835318 2928314 A12 Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:03:42 2021 Page 1

21-7-0

18-0-0

6-10-4

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

11-1-12

6-10-4

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-JW1uZLeXu8znsONjCfKnthjXrFzS0df?O1poiKyfKLV 22-0-0 0-5-0 29-0-0 30-0-0 35-8-8 40-0-0 0-10-8 7-0-0 4-3-8

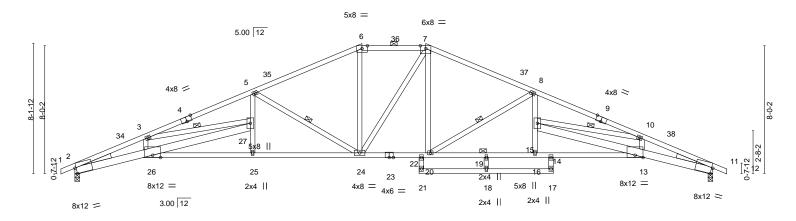
Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-4-13 max.): 6-7.

10-0-0 oc bracing: 25-26, 13-14

Rigid ceiling directly applied. Except:

Scale = 1:72.2



	4-3-8	11-1-12	18-0-0	21-7-0 22-0	Q-0 25-9-11	29-0-0 30-0-0	35-8-8	40-0-0
	4-3-8	6-10-4	6-10-4	3-7-0 0-5	-0 3-9-11	3-2-5 1-0-0	5-8-8	4-3-8
Plate Offsets ((X Y) [2·0-0-1	5 Edge] [4:0-4-0 Edge] [6:	0-4-2 Edgel [7:0-4-2 Edgel	[9:0-4-0 Edge]	[11:0-0-15 Edd	nel		

	1	7 - 3 - 17 1 7 - 3 - 17 1	, , , , , , , , , , , , , , , , , , ,	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.98	Vert(LL) -0.52 22-24 >928 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.96	Vert(CT) -0.93 22-24 >517 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.47	Horz(CT) 0.49 11 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 212 lb FT = 20%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD 2x4 SPF No 2 TOP CHORD

BOT CHORD 2x4 SPF No.2 *Except*

2-27,11-15: 2x6 SPF 2100F 1.8E, 23-26,13-23: 2x4 SPF 1650F 1.5E

WFBS 2x4 SPF No.2

WEDGE WEBS 1 Row at midpt 5-24, 8-20, 10-15, 3-27

Left: 2x4 SP No.3 , Right: 2x4 SP No.3 **JOINTS** 1 Brace at Jt(s): 19

(size) 2=0-3-8, 11=0-3-8 Max Uplift 2=-251(LC 12), 11=-251(LC 13)

Max Horz 2=123(LC 12)

Max Grav 2=1861(LC 1), 11=1861(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-6274/880, 3-5=-4134/527, 5-6=-2985/423, 6-7=-2654/421, 7-8=-2966/424, TOP CHORD

8-10=-4101/499, 10-11=-6274/768

BOT CHORD $2 - 26 = -890/5764, \ 26 - 27 = -422/2079, \ 25 - 26 = -474/3726, \ 24 - 25 = -469/3733, \ 22 - 24 = -186/2637, \ 24 - 25 = -469/3733,$

20-22=-174/2506, 19-20=-338/3573, 16-19=-338/3573, 14-16=-345/3568,

13-14=-358/3700, 13-15=-348/2106, 11-13=-661/5765

WEBS 3-26=0/415, 25-27=0/256, 5-27=-19/569, 5-24=-1236/291, 6-24=-70/737, 7-24=-233/286,

10-13=0/424, 7-20=-96/705, 8-15=-4/562, 8-20=-1224/274, 10-15=-1979/342,

3-27=-1948/409

NOTES-

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 18-0-0, Exterior(2E) 18-0-0 to 22-0-0, Exterior(2R) 22-0-0 to 27-7-14, Interior(1) 27-7-14 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 3x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 2, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=251, 11=251.
- 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.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 12,2021



Job Truss Truss Type Qty Ply SUMMIT/HAWTHORN RIDGE #134/MO 147835319 2928314 A13 Hip Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:03:44 2021 Page 1

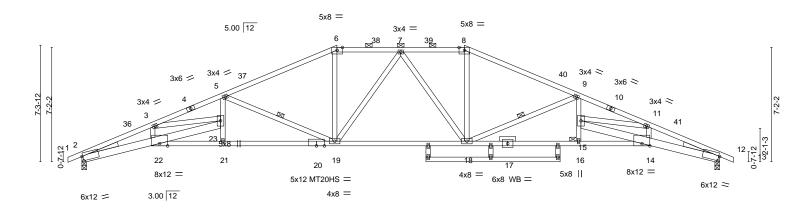
35-8-8

5-19. 9-18

40-0-0

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-Fv9f_0foPIDV5iX6J4NFy6osX2fqUXMlrLlumCyfKLT 8-10-2 16-0-0 20-0-0 21-7-0 24-0-0 31-1-14 35-8-8 40-0-0 4-6-10 5-10-4 4-0-0 2-5-0 4-6-10 4-3-8

Scale = 1:72.3



	4-3		1-3-10	5-10-4		5-7-0 ' 2-5	5-0 '1-7-13'	4-4-3	1-1-14	4-6-10	4-3-8
Plate Off	sets (X,Y)	[2:0-0-11,0-3-7], [6:0-4-2	,Edge], [8:0-4	2,Edge], [12:	0-0-11,0-3-7]					
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.51 18-19	>937	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.99 18-19	>484	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.49 12	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-AS					Weight: 20	1 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

JOINTS

24-0-0 25-7-13

30-0-0

31-1-14

Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-1-5 max.): 6-8.

Rigid ceiling directly applied.

1 Row at midpt

1 Brace at Jt(s): 16

LUMBER-

TOP CHORD 2x4 SPF No 2

BOT CHORD 2x4 SPF No.2 *Except*

4-3-8

2-23,12-15: 2x6 SPF 2100F 1.8E

20-22,14-17,17-20: 2x4 SPF 1650F 1.5E

8-10-2

1,0-1-12

WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No.2

WEDGE

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

REACTIONS. (size) 2=0-3-8, 12=0-3-8

Max Horz 2=-109(LC 17)

Max Uplift 2=-253(LC 12), 12=-253(LC 13) Max Grav 2=1861(LC 1), 12=1861(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-6103/847, 3-5=-4604/611, 5-6=-3301/448, 6-7=-2947/447, 7-8=-2947/448,

8-9=-3301/449, 9-11=-4604/570, 11-12=-6102/750

BOT CHORD 2-22=-843/5590, 22-23=-282/1457, 21-22=-563/4179, 19-21=-557/4188, 18-19=-256/3048,

16-18=-433/4188, 14-16=-441/4179, 14-15=-224/1457, 12-14=-642/5590 3-22=-26/460, 5-19=-1331/309, 6-19=-58/835, 8-18=-65/835, 11-14=-12/460,

WEBS

9-18=-1331/291, 9-15=-19/579, 5-23=-35/579, 3-23=-1301/269, 7-19=-402/128,

7-18=-402/128, 11-15=-1301/218

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 16-0-0, Exterior(2R) 16-0-0 to 21-7-14, Interior(1) 21-7-14 to 24-0-0, Exterior(2R) 24-0-0 to 29-7-14, Interior(1) 29-7-14 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

16-0-0

- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 7) Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=253, 12=253,
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

OF MISS SCOTT M. SEVIER NUMBER POLITICO NAL PE-2001018807

September 12,2021

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Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE #134/MO
2928314	A42	Llia	4	_	147835319
2928314	A13	Hip	1	1	Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:03:44 2021 Page 2 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-Fv9f_0foPIDV5iX6J4NFy6osX2fqUXMIrLlumCyfkLT

NOTES-

- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job Truss Truss Type Qty Ply SUMMIT/HAWTHORN RIDGE #134/MO 147835320 2928314 A14 Hip Job Reference (optional)

20-0-0

6-0-0

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

9-1-12

4-10-4

14-0-0

4-10-4

14-0-0

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:03:45 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-j5i1BMgQA3LLjs6ltnuUVKL2aS_6DwMS4?2SJfyfKLS 26-0-0 33-0-12 40-0-0 40-10-8 0-10-8 6-0-0 6-7-12

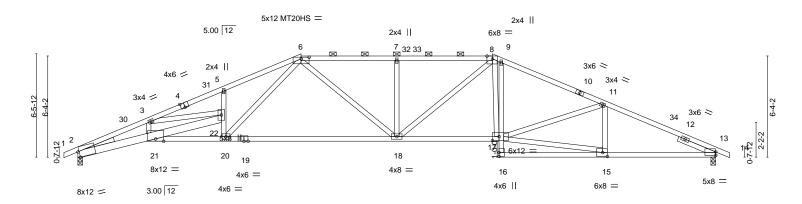
33-0-12

Structural wood sheathing directly applied, except

2-0-0 oc purlins (2-4-11 max.): 6-8.

Rigid ceiling directly applied.

Scale = 1:72.3



4-10-4 4-10-4	1 6-0-0	6-5-0 6-7-12	6-11-4
0-0-15,Edge], [4:0-3-0,Edge], [6:0-6-0),0-1-5], [8:0-4-2,Edge], [1	3:0-0-0,0-2-11], [15:0-3-8,0-3-0], [17:0-5-0,0-3-0]	
SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
Plate Grip DOL 1.15	TC 0.95	Vert(LL) -0.45 18-20 >999 240	MT20 197/144
Lumber DOL 1.15	BC 0.96	Vert(CT) -1.06 18-20 >453 180	MT20HS 148/108
Rep Stress Incr YES	WB 0.73	Horz(CT) 0.37 13 n/a n/a	
Code IRC2018/TPI2014	Matrix-AS		Weight: 184 lb FT = 20%
	0-0-15,Edge], [4:0-3-0,Edge], [6:0-6-0 SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	0-0-15,Edge], [4:0-3-0,Edge], [6:0-6-0,0-1-5], [8:0-4-2,Edge], [1 SPACING- 2-0-0 CSI. Plate Grip DOL 1.15 TC 0.95 Lumber DOL 1.15 BC 0.96 Rep Stress Incr YES WB 0.73	O-0-15,Edge], [4:0-3-0,Edge], [6:0-6-0,0-1-5], [8:0-4-2,Edge], [13:0-0-0,0-2-11], [15:0-3-8,0-3-0], [17:0-5-0,0-3-0] SPACING- 2-0-0

BRACING-TOP CHORD

BOT CHORD

26-5-0

20-0-0

LUMBER-TOP CHORD 2x4 SPF No 2

2x4 SPF 1650F 1.5E *Except* **BOT CHORD**

2-22: 2x6 SPF 2100F 1.8E, 9-16: 2x4 SPF No.2

9-1-12

WEBS 2x4 SPF No.2 WEDGE

Left: 2x4 SP No.3

SLIDER Right 2x4 SPF No.2 2-6-0

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

4-3-8

Max Horz 2=96(LC 12)

Max Uplift 2=-256(LC 12), 13=-256(LC 13) Max Grav 2=1861(LC 1), 13=1861(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-6131/861, 3-5=-4467/558, 5-6=-4495/647, 6-7=-3638/496, 7-8=-3638/496,

8-9=-3476/516, 9-11=-3621/480, 11-13=-3551/472

BOT CHORD 2-21=-842/5621, 21-22=-321/1468, 20-21=-526/4195, 18-20=-344/3202, 17-18=-279/3217,

15-16=-5/255, 13-15=-352/3207

WEBS 3-21=-21/437, 6-18=-120/762, 7-18=-518/171, 8-18=-135/730, 15-17=-354/2987,

11-17=-22/308, 11-15=-391/114, 20-22=-852/256, 5-22=-335/154, 3-22=-1479/341,

6-20=-225/1319, 8-17=-136/605

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 14-0-0, Exterior(2R) 14-0-0 to 19-7-14, Interior(1) 19-7-14 to 26-0-0, Exterior(2R) 26-0-0 to 31-7-14, Interior(1) 31-7-14 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=256, 13=256,
- 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.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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



40-0-0

September 12,2021



SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835321 2928314 A15 Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:03:47 2021 Page 1

19-2-8

7-2-8

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

12-0-0

7-8-8

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-gUqnc2igigb3y9Fh_CwyalQRkGgZhqjkYJXZNXyfKLQ 26-5-0 7-2-8 33-10-4 40-0-0 1-7-0 5-10-4

Structural wood sheathing directly applied, except

3-20

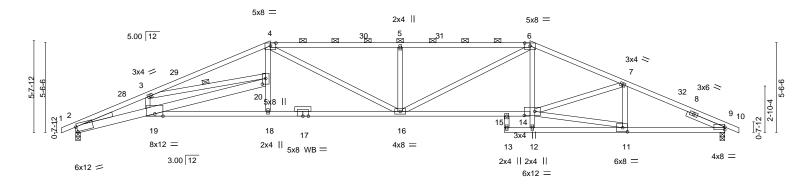
2-0-0 oc purlins (3-1-12 max.): 4-6.

10-0-0 oc bracing: 18-19

1 Row at midpt

Rigid ceiling directly applied. Except:

Scale = 1:71.0



1	4-3-8	12-0-0	1	19-	2-8	1 26-5	.0	28-0-0 ₁	33-10-4	1 40-0-0	1
	4-3-8	7-8-8	1	7-2	2-8	7-2-	8	1-7-0	5-10-4	6-1-12	
Plate Offset	ts (X,Y) [2	2:0-0-11,0-3-11], [4:0-4-0	,0-2-2], [6:0-4	4-0,0-2-2], [9:	Edge,0-1-15],	[11:0-3-8,0-3-0],	[14:0-7-12,0-	3-0], [20:0	-4-4,0-2-8]		
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.44 15-16	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.83 15-16	>580	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.38	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-AS	,				Weight: 197 lb	FT = 20%
										•	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SPF 1650F 1.5E *Except*

2-20: 2x6 SPF 2100F 1.8E, 13-15,14-17: 2x4 SPF No.2

WEBS 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2

WEDGE Left: 2x4 SP No.3

SLIDER Right 2x4 SPF No.2 2-6-0

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

Max Horz 2=83(LC 12)

Max Uplift 2=-257(LC 12), 9=-257(LC 13) Max Grav 2=1861(LC 1), 9=1861(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-6406/896, 3-4=-4063/527, 4-5=-4359/651, 5-6=-4359/651, 6-7=-3918/517,

BOT CHORD 2-19=-867/5894, 19-20=-468/2324, 18-19=-406/3602, 16-18=-402/3620, 15-16=-364/3587,

14-15=-303/3443, 9-11=-364/3204

WEBS 3-19=0/449, 18-20=0/303, 4-20=-11/608, 4-16=-205/1057, 5-16=-656/223,

6-16=-212/1065, 12-14=0/284, 6-14=-17/585, 7-11=-496/104, 11-14=-300/3022,

7-14=-44/611, 3-20=-2141/454

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 12-0-0, Exterior(2R) 12-0-0 to 17-7-14, Interior(1) 17-7-14 to 28-0-0, Exterior(2R) 28-0-0 to 33-10-4, Interior(1) 33-10-4 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=257. 9=257.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

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



OF MISS

September 12,2021



Job Qty Truss Truss Type SUMMIT/HAWTHORN RIDGE #134/MO 147835322 2928314 A16 Hip Job Reference (optional)

Builders First Source, Valley Center, KS 67147

8.430 s Jul 16 2021 MiTek Industries, Inc. Fri Sep 10 14:35:06 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-6D6NpHxvMniQmdih5BUbE4suAhP1nRU5d7pxjryfADJ

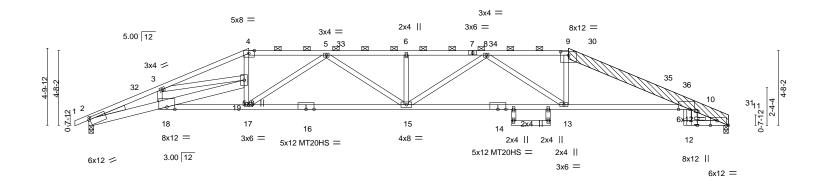
Structural wood sheathing directly applied, except

2-0-0 oc purlins (2-1-9 max.): 4-9.

Rigid ceiling directly applied.

40-0-0 -Q-10₇8 26-5-0 28-10-8 30-0-0 1-6-12 2-5-8 1-1-8 37-2-8 4-3-8 10-0-0 14-10-4 19-10-4 24-10-4 0-10-8 4-10-4 3-10-15 4-3-8 5-8-8 4-4-9 2-9-8

Scale = 1:72.0



	4-3-8	10-0-0		18-2-8	i9-10-4	26	0-5-0	2	28-10-8	3 υ-υ-ψ	37-2-8	40-0-0
	4-3-8	5-8-8	l l	8-2-8	1-7-12	6-	6-12	'	2-5-8	ነ-1-8 ^l	7-2-8	2-9-8
Plate Offsets	(X,Y) [2:0	0-0-14,0-1-11], [4:0-4-2	,Edge], [9:0-6	-0,0-2-10], [10:	:0-8-7,0-0-0], [11	:0-5-0,Edge]					
LOADING (p	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25	5.Ó	Plate Grip DOL	1.15	TC (0.83	Vert(LL)	-0.69	` 15	>697	240	MT20	197/144
TCDL 10	0.0	Lumber DOL	1.15	BC (0.94	Vert(CT)	-1.32 15	5-17	>363	180	MT20HS	148/108
BCLL (0.0	Rep Stress Incr	YES	WB (0.86	Horz(CT)	0.57	11	n/a	n/a		
BCDL 10	0.0	Code IRC2018/TPI	2014	Matrix-A	AS						Weight: 216 lb	FT = 20%
-												

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

1-4: 2x4 SPF 1650F 1.5E, 9-11: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

2-19: 2x6 SPF 2100F 1.8E, 16-18,10-14,14-16: 2x4 SPF 1650F 1.5E

10-12: 2x6 SPF No.2 WEBS 2x4 SPF No.2

OTHERS 2x8 SP 2400F 2.0E LBR SCAB

WEDGE

9-11 2x8 SP 2400F 2.0E one side

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

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

Max Horz 2=75(LC 16)

Max Uplift 2=-242(LC 8), 11=-214(LC 9) Max Grav 2=1862(LC 1), 11=1809(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-32=-6219/779, 3-32=-6128/796, 3-4=-4528/630, 4-5=-3969/584, 5-33=-5388/819,

6-33=-5388/819, 6-7=-5388/819, 7-34=-5388/819, 8-34=-5388/819, 8-9=-4112/599,

9-30=-4172/599, 30-35=-4301/572, 35-36=-4311/571, 10-36=-4365/568, 10-31=-687/106,

11-31=-867/108

BOT CHORD 2-18=-709/5709, 18-19=-311/1860, 17-18=-476/3892, 16-17=-695/4958, 15-16=-695/4958,

14-15=-692/5004, 13-14=-692/5004, 10-13=-485/4077

WEBS 3-18=-5/405, 17-19=-74/865, 4-19=-137/1331, 9-13=-70/879, 6-15=-353/122,

5-17=-1325/271, 5-15=-38/624, 8-13=-1204/256, 8-15=-30/573, 3-19=-1502/306

NOTES-

- 1) Attached 11-1-0 scab 9 to 11, front face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-0-3 from end at joint 9, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 7-8-3 from end at joint 9, nail 2 row(s) at 2" o.c. for 3-1-9.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 10-0-0, Exterior(2R) 10-0-0 to 15-7-14, Interior(1) 15-7-14 to 30-0-0, Exterior(2R) 30-0-0 to 35-7-14, Interior(1) 35-7-14 to 39-11-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Bearing at joint(s) 2, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.



September 12,2021

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Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE #134/MO
					147835322
2928314	A16	Hip	1	1	
					Job Reference (optional)

Builders First Source, Valley Center, KS 67147

8.430 s Jul 16 2021 MiTek Industries, Inc. Fri Sep 10 14:35:06 2021 Page 2 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-6D6NpHxvMniQmdih5BUbE4suAhP1nRU5d7pxjryfADJ

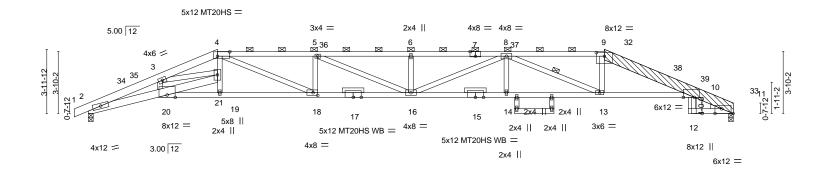
NOTES-

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 242 lb uplift at joint 2 and 214 lb uplift at joint 11.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job SUMMIT/HAWTHORN RIDGE #134/MO Truss Truss Type Qty 147835323 2928314 A17 Hip Job Reference (optional) Builders First Source, Valley Center, KS 67147

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Sep 10 10:28:41 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-2BkbTKXuZ?ha2bK?k7TNFkDoDyTezk_XeRW2XNyf3HK 8-0-0 14-0-14 20-0-0 25-11-2 26-5-0 28-10-8 0-5-14 2-5-8 32-0-0 37-2-8 40-0-0

Scale = 1:71.5



	4-	-3-8 8-0-0	14-0-14	17-2-8 2	0-0-0	25-11-2	26-5 _t 0 28-10-8	32-0-0	37-2-8	40-0-0
	¹ 4-	-3-8 3-8-8	6-0-14	3-1-10	2-9-8	5-11-2	0-5-14 2-5-8	3-1-8	5-2-8	2-9-8
Plate Offs	sets (X,Y)	[4:0-9-0,0-3-4], [7:0-4-0,	Edge], [9:0-6-0,0)-2-10], [10:0-8-3,Edge],	[11:0-5-0,Edge]	[18:0-3-8	,0-2-0]			
				1.1		-	•			
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc) I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.89	Vert(LL)	-0.87	16 >550	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.70	Vert(CT)	-1.57	16 >305	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB 0.53	Horz(CT	0.54	11 n/a	n/a		
BCDL	10.0	Code IRC2018/7	PI2014	Matrix-AS		,			Weight: 222 lb	FT = 20%
									_	

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied, except

2-0-0 oc purlins (2-0-13 max.): 4-9.

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF 1650F 1.5E *Except*

1-4: 2x6 SPF No.2, 9-11: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

2-21: 2x6 SPF 2100F 1.8E, 17-20,10-15,15-17: 2x4 SP 2400F 2.0E 10-12: 2x6 SPF No.2

WEBS 2x4 SPF No.2 2x4 SPF No.2 **OTHERS**

9-11 2x8 SP 2400F 2.0E one side LBR SCAB

WEDGE

Right: 2x4 SPF No.2

REACTIONS. (lb/size) 2=1862/0-3-8, 11=1809/0-3-8

Max Horz 2=63(LC 16)

Max Uplift 2=-264(LC 8), 11=-238(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-34=-6758/937, 34-35=-6715/943, 3-35=-6687/949, 3-4=-4975/758, 4-36=-6495/1064,

5-36=-6495/1064. 5-6=-7104/1167. 6-7=-7104/1167. 7-8=-7104/1167. 8-37=-4663/725. 9-37=-4663/725, 9-32=-4726/730, 32-38=-4810/712, 38-39=-4855/705, 10-39=-4866/702,

10-33=-687/116. 11-33=-867/119

BOT CHORD $2-20 = -861/6252, \ 20-21 = -290/1649, \ 19-20 = -646/4573, \ 18-19 = -640/4601, \ 17-18 = -983/6495,$

16-17=-983/6495, 15-16=-975/6500, 14-15=-975/6500, 13-14=-975/6500, 10-13=-631/4608

WEBS $3-20=-88/839,\ 4-21=-42/587,\ 9-13=-105/997,\ 6-16=-404/141,\ 5-16=-217/760,$ 5-18=-730/201, 4-18=-381/2164, 8-13=-2113/378, 8-16=-217/755, 3-21=-1512/278

- 1) Attached 8-11-0 scab 9 to 11, front face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 0-0-3 from end at joint 9, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 3-3-11 from end at joint 9, nail 2 row(s) at 2" o.c. for 5-4-1.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-1-8, Interior(1) 3-1-8 to 8-0-0, Exterior(2R) 8-0-0 to 13-7-14, Interior(1) 13-7-14 to 32-0-0, Exterior(2R) 32-0-0 to 37-7-14, Interior(1) 37-7-14 to 39-11-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Bearing at joint(s) 2, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 264 lb uplift at joint 2 and 238 lb uplift at joint 11.



September 12,2021

inued on page 2

warnINMG - 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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Job	Truss	Truss Type	Qty	Ply	SUMMIT/HAWTHORN RIDGE #134/MO
2928314	A17	Lin	1	,	147835323
2920314	All			· '	Job Reference (optional)

Builders First Source, Valley Center, KS 67147

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Sep 10 10:28:41 2021 Page 2 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-2BkbTKXuZ?ha2bK?k7TNFkDoDyTezk_XeRW2XNyf3HK

NOTES-

- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job Truss Truss Type Qty Plv SUMMIT/HAWTHORN RIDGE #134/MO 147835324 2928314 A18 Hip Girder 2 Job Reference (optional)

21-4-10

5-2-2

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

1-8-8

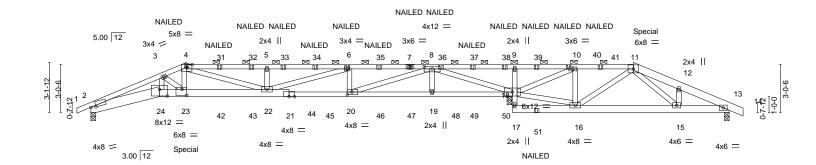
11-0-6

5-0-6

5-2-2

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:03:53 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-UeB2t5mRIWLDg4jqLT1Mp0gSegkX5UfdwF_tbByfKLK 26-5-0 <u>30</u>-4-4 34-0-0 36-10-4 2-10-4 5-0-6 3-7-12

Scale = 1:72.2



	4-	3-8 1-8-8 5	-0-6	5-2-2	5-2-2	4-11-14	0-0-8	3-11-4	3-7-12	2-10-4	3-1-12
Plate Off	fsets (X,Y)	[2:0-3-12,0-0-9], [4:0-4-0),0-2-2], [8:0-6-	-0,0-1-12], [20:0-	3-8,0-2-0], [23:0-3-8,	0-4-8], [24:0-6-	0,0-5-0]				
									, ,		
LOADIN	I G (pst)	SPACING-	2-0-0	CSI.	DEF	L. in	(loc)	I/defl L	/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.	82 Vert	(LL) -0.29	20-22	>999 24	10	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.	93 Vert	(CT) -0.55	20-22	>578 18	30		
BCLL	0.0	Rep Stress Incr	NO	WB 0.	90 Horz	(CT) 0.12	18	n/a n	/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-M	S					Weight: 367 lb	FT = 20%

26-4-8

26-5-0 30-4-4

34-0-0 36-10-4 40-0-0

21-4-10

LUMBER-**BRACING-**

11-0-6

TOP CHORD 2x4 SPF 1650F 1.5E *Except* TOP CHORD Structural wood sheathing directly applied or 4-5-10 oc purlins, except

1-4: 2x4 SPF No.2, 11-14: 2x6 SPF No.2

16-2-8

BOT CHORD 2x6 SPF No.2 *Except* 2-0-0 oc purlins (5-2-11 max.): 4-11. **BOT CHORD**

2-24: 2x8 SP 2400F 2.0E, 9-17: 2x4 SPF No.2 Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

18-21: 2x4 SP 2400F 2.0E 6-0-0 oc bracing: 16-17,15-16,13-15. 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 18=0-3-8

4-3-8

6-0-0

Max Horz 2=-47(LC 9)

Max Uplift 2=-379(LC 4), 13=-171(LC 30), 18=-1025(LC 4) Max Grav 2=1972(LC 21), 13=231(LC 17), 18=4845(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-6644/1308, 3-4=-6379/1305, 4-5=-7099/1474, 5-6=-7096/1473, 6-8=-5509/1157, TOP CHORD

8-9=-1177/5902, 9-10=-1167/5856, 10-11=-293/1762, 11-12=-226/334, 12-13=-244/313 2-24=-1172/6129, 23-24=-1151/6003, 22-23=-1151/5892, 20-22=-1090/5510,

19-20=-194/1166, 18-19=-194/1166, 9-18=-636/204, 16-17=-525/93, 15-16=-457/72,

13-15=-275/213

WEBS 3-24=-73/381, 4-23=-253/1366, 4-22=-276/1382, 5-22=-671/225, 6-22=-332/1671,

6-20=-1135/310, 8-20=-945/4603, 8-19=0/466, 8-18=-7421/1516, 10-16=-248/1506,

11-16=-1705/364, 16-18=-1346/287, 10-18=-4473/948, 11-15=-61/439

NOTES-

BOT CHORD

WEBS

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

Top chords connected as follows: 2x4 - 1 row at 0-5-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

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

- 2) 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.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=379, 13=171, 18=1025.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

OF MISS SCOTT M. SEVIER NUMBER ROLLESSIONAL STONAL PE-2001018807

September 12,2021

Continued on page 2
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	SUMMIT/HAWTHORN RIDGE #134/MO	
2928314	A18	Hip Girder	1	_		147835324
					Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:03:53 2021 Page 2 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-UeB2t5mRIWLDg4jqLT1Mp0gSegkX5UfdwF_tbByfKLK

NOTES-

- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 506 lb down and 203 lb up at 34-0-0 on top chord, and 380 lb down and 123 lb up at 6-0-0, 101 lb down and 24 lb up at 6-0-12, 101 lb down and 24 lb up at 8-0-12, 101 lb down and 24 lb up at 10-0-12, 101 lb down and 24 lb up at 12-0-12, 101 lb down and 24 lb up at 12-0-12, 101 lb down and 24 lb up at 12-0-12, 101 lb down and 24 lb up at 12-0-12, 101 lb down and 24 lb up at 12-0-12, 101 lb down and 24 lb up at 13-0-12, 101 lb down and 24 lb up a down and 24 lb up at 21-11-4, and 101 lb down and 24 lb up at 23-11-4, and 101 lb down and 24 lb up at 25-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-70, 4-11=-70, 11-14=-70, 24-25=-20, 18-24=-20, 17-28=-20

Concentrated Loads (lb)

Vert: 4=-97(B) 7=-97(B) 11=-447(B) 23=-473(B=-380) 6=-97(B) 20=-93 31=-97(B) 32=-97(B) 33=-97(B) 35=-97(B) 35=-97(B) 35=-97(B) 35=-97(B) 36=-97(B) 39=-83(B) 40=-94(B) 41=-94(B) 42=-93 43=-93 44=-93 45=-93 46=-93 47=-93 48=-93 49=-93 50=-93 51=-81(B)

Job Truss Truss Type Qty Ply SUMMIT/HAWTHORN RIDGE #134/MO 147835325 2928314 В1 3 Common Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:08 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-YWbj0Eyrm7E5zOMjj6otwAo8jj?j6UeqN46AdpyfKL5 -0-10-8 6-0-0 12-0-0 12-10-8 0-10-8 6-0-0 6-0-0 0-10-8 Scale = 1:22.2 4x6 = 5.00 12 18 3x4 = 5 3x4 ≥ 3 6 8 2x4 || 3x6 || 3x6 || 6-0-0 12-0-0 6-0-0 6-0-0 Plate Offsets (X,Y)--[2:0-3-8,Edge], [6:0-3-15,Edge] LOADING (psf) SPACING-CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.31 Vert(LL) -0.04 8-15 >999 240 MT20 197/144 TCDL Lumber DOL Vert(CT) 10.0 1.15 BC 0.31 -0.07 8-15 >999 180 WB **BCLL** 0.0 Rep Stress Incr YES 0.06 Horz(CT) 0.01 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-AS Weight: 40 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

REACTIONS.

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=45(LC 12)

Max Uplift 2=-86(LC 12), 6=-86(LC 13) Max Grav 2=601(LC 1), 6=601(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4=-706/257, 4-6=-706/257 BOT CHORD 2-8=-139/644, 6-8=-139/644

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 12-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 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.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

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



SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835326 2928314 B2 Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:10 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-VvjURv_5IkUoDiW5rXqL?btRRXcKaOC7qObHhiyfKL3 -0-10-8 4-0-0 12-10-8 12-0-0

Scale = 1:22.8

0-10-8

4-0-0

12-0-0

4-0-0

Structural wood sheathing directly applied or 4-6-13 oc purlins,

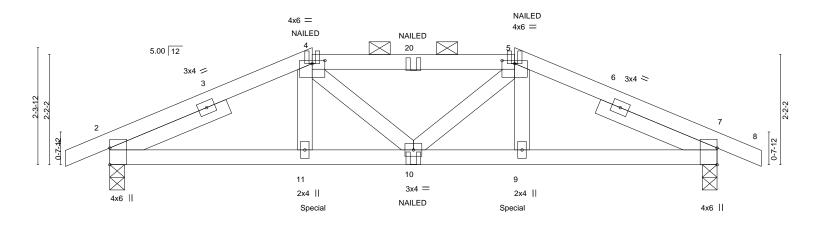


Plate Off	fsets (X,Y)	[4:0-3-0,0-0-12], [5:0-3-0	,0-0-12]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.04	9-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.07	9-10	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MS						Weight: 46 lb	FT = 20%

BOT CHORD

8-0-0

2-0-0

except

2-0-0 oc purlins (4-3-12 max.): 4-5.

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

6-0-0

2-0-0

LUMBER-**BRACING-**TOP CHORD

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

0-10-8

WFBS

SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 7=0-3-8

Max Horz 2=-31(LC 9)

Max Uplift 2=-191(LC 8), 7=-191(LC 9) Max Grav 2=916(LC 1), 7=916(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

4-0-0

4-0-0

4-0-0

2-4=-1493/333, 4-5=-1417/303, 5-7=-1493/333 TOP CHORD

BOT CHORD 2-11=-283/1364, 10-11=-282/1348, 9-10=-257/1348, 7-9=-258/1364

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=191, 7=191.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 232 lb down and 79 lb up at 4-0-0, and 232 lb down and 79 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-70, 4-5=-70, 5-8=-70, 12-16=-20

Concentrated Loads (lb)

Vert: 4=-47(B) 5=-47(B) 11=-232(B) 9=-232(B) 10=-24(B) 20=-47(B)



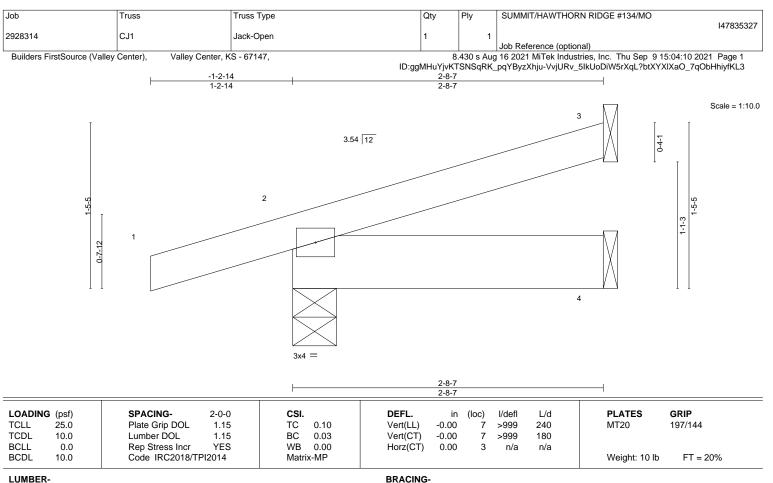
September 12,2021

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TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

> (size) 3=Mechanical, 2=0-4-9, 4=Mechanical Max Horz 2=46(LC 8)

Max Uplift 3=-25(LC 12), 2=-70(LC 8)

Max Grav 3=65(LC 1), 2=226(LC 1), 4=52(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- $1) \ \ Wind: ASCE\ 7-16; \ Vult=115 mph\ (3-second\ gust)\ \ Vasd=91 mph; \ TCDL=6.0 psf; \ BCDL=4.2 psf; \ h=15 ft; \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ \ Exp\ C$ MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 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.

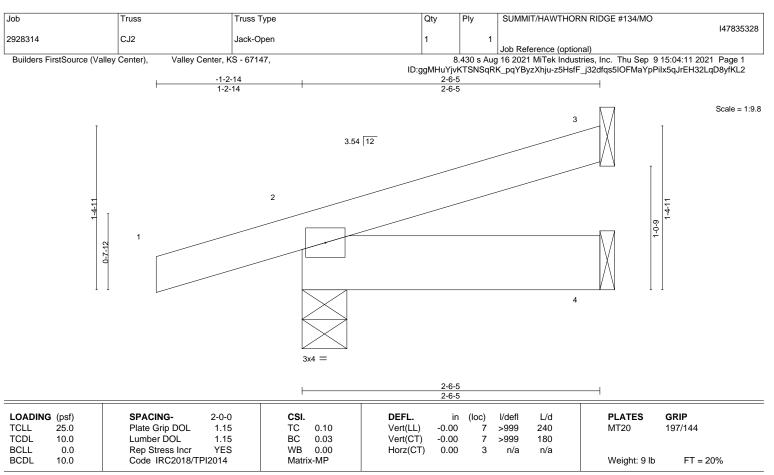


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Structural wood sheathing directly applied or 2-8-7 oc purlins.

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



LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x6 SPF No.2 BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 2-6-5 oc purlins.

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

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical

Max Horz 2=44(LC 8)

Max Uplift 3=-23(LC 12), 2=-70(LC 8)

Max Grav 3=59(LC 1), 2=219(LC 1), 4=48(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

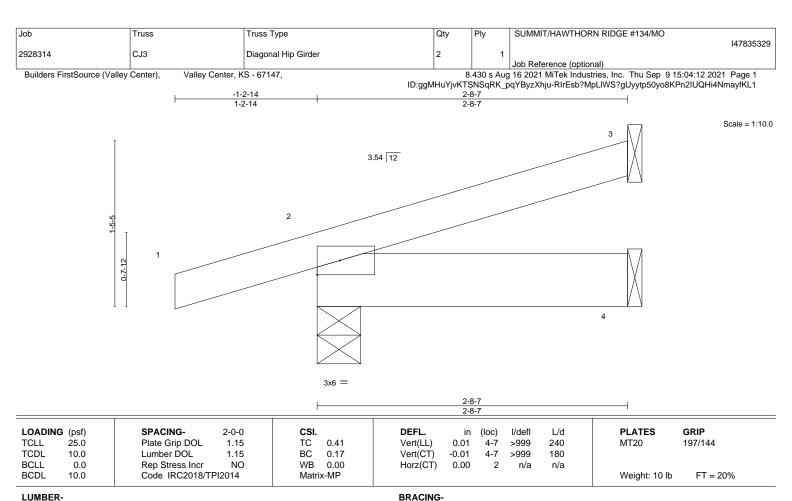
- $1) \ \ Wind: ASCE\ 7-16; \ Vult=115 mph\ (3-second\ gust)\ \ Vasd=91 mph; \ TCDL=6.0 psf; \ BCDL=4.2 psf; \ h=15 ft; \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ \ Exp\ C$ MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 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.



September 12,2021







TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=43(LC 8)

Max Uplift 2=-66(LC 8), 4=-28(LC 9) Max Grav 2=226(LC 1), 4=103(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- $1) \ \ Wind: ASCE\ 7-16; \ Vult=115 mph\ (3-second\ gust)\ \ Vasd=91 mph; \ TCDL=6.0 psf; \ BCDL=4.2 psf; \ h=15 ft; \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ \ Exp\ C$ MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 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.



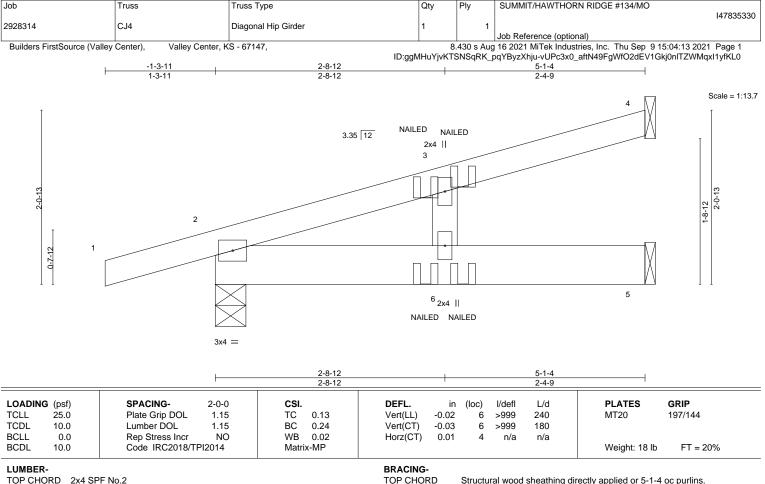
September 12,2021





Structural wood sheathing directly applied or 2-8-7 oc purlins.

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



BOT CHORD

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

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

2x4 SPF No.2 (size) 4=Mechanical, 2=0-4-6, 5=Mechanical

Max Horz 2=69(LC 4) Max Uplift 4=-33(LC 8), 2=-94(LC 4), 5=-25(LC 8) Max Grav 4=91(LC 1), 2=336(LC 1), 5=130(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.

Vert: 6=-12(F=-2, B=-9)

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 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.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) 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

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-70, 5-7=-20 Concentrated Loads (lb)



September 12,2021



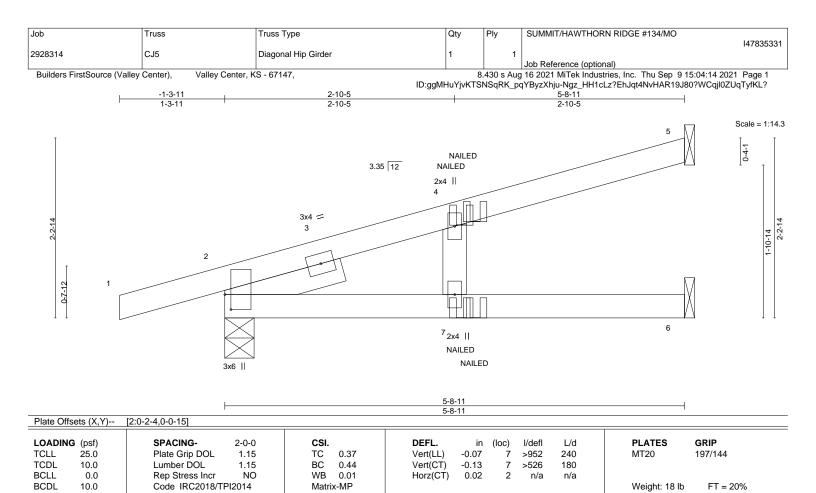


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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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





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 1-6-0

REACTIONS.

(size) 5=Mechanical, 2=0-4-6, 6=Mechanical Max Horz 2=76(LC 4) Max Uplift 5=-50(LC 8), 2=-93(LC 4), 6=-11(LC 8)

Max Grav 5=151(LC 1), 2=361(LC 1), 6=98(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
- 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.
- 6) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) 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

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-70, 6-8=-20 Concentrated Loads (lb) Vert: 7=-9(F=-9, B=1)



Structural wood sheathing directly applied or 5-8-11 oc purlins.

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

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



SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835332 2928314 CJ6 Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:15 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-rtWNUd1E6G75JTO3d4QWifaD3YLdFfEs_gJ1MvyfKL_ 3-10-10 8-4-5 1-2-14 3-10-10 4-5-11 Scale = 1:20.1 5x12 MT20HS II 4 5 NAII FD NAILED 3.54 12 13 2-1-5 NAILED NAILED 12 5k8 = NAILED 15 NAILED 0-7-12 4x6 = NAILED 3x6 II NAILED 4x6 3-10-10 3-10-10 4-5-11 Plate Offsets (X,Y)--[2:0-0-11,Edge], [3:0-3-7,0-2-4] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.82 Vert(LL) -0.14 >682 240 MT20 197/144 TCDL MT20HS 148/108 10.0 Lumber DOL 1.15 BC 0.48 Vert(CT) -0.25 8 >392 180 WB

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.10

n/a

Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

Weight: 33 lb

FT = 20%

n/a

except end verticals.

LUMBER-

BCLL

BCDL

TOP CHORD 2x6 SPF No.2

0.0

10.0

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

WFBS 2x4 SPF No.2

REACTIONS.

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

Rep Stress Incr

Code IRC2018/TPI2014

Max Horz 2=91(LC 5)

Max Uplift 7=-118(LC 8), 2=-124(LC 4) Max Grav 7=452(LC 1), 2=493(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 3-4=-270/57, 4-7=-298/97

BOT CHORD 3-7=-71/277

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

0.00

Matrix-MR

- 2) All plates are MT20 plates unless otherwise indicated.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

NO

- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=118, 2=124,
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 4-5=-20, 8-9=-20, 3-6=-20

Concentrated Loads (lb)

Vert: 13=-6(F=-3, B=-3) 14=2(F=1, B=1) 15=-114(F=-57, B=-57)



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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 SUMMIT/HAWTHORN RIDGE #134/MO 147835333 2928314 CJ7 Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:16 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-J34liz2staFyxdzFBoxlFs7UFylb_5l0CK2buMyfKKz <u>5-11-5</u> 8-4-5

2-9-15

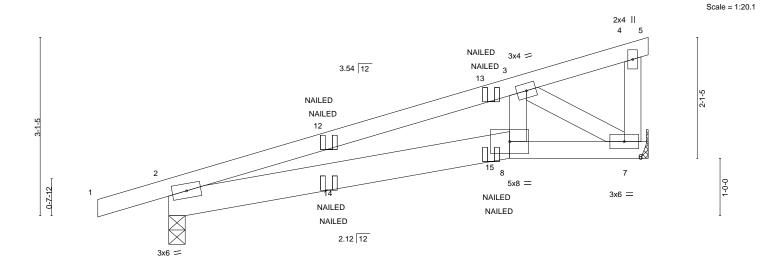
2-5-0

8-4-5

Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals



		<u></u>		3-1-7	-/ Z-9-15					2-5-0		
LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.01	8-11	>999	240	MT20	197/144
TCDL 1	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.03	8-11	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.01	7	n/a	n/a		
BCDL 1	10.0	Code IRC2018/TF	PI2014	Matrix	-MP	` ′					Weight: 30 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

5-11-5

LUMBER-

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

2-8: 2x6 SPF No.2 WFBS 2x4 SPF No.2

REACTIONS. (size) 7=Mechanical, 2=0-3-7

Max Horz 2=92(LC 5)

Max Uplift 7=-95(LC 8), 2=-113(LC 4) Max Grav 7=409(LC 1), 2=474(LC 1)

1-2-14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-768/164

BOT CHORD 2-8=-179/705, 7-8=-171/655

WFBS 3-7=-754/215

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) 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.

3-1-7

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2 = 113.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-70, 4-5=-20, 8-9=-20, 6-8=-20

Concentrated Loads (lb)

Vert: 13=-30(F=-15, B=-15) 14=2(F=1, B=1) 15=-30(F=-15, B=-15)



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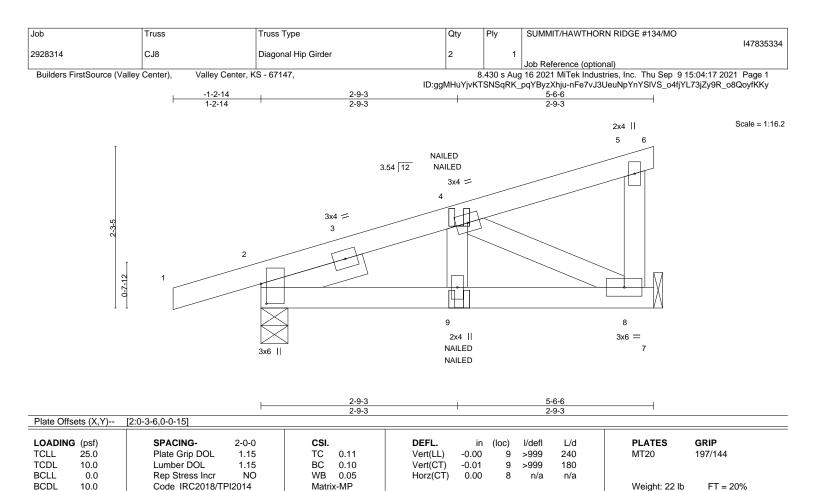


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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No 2 WFBS

SLIDER Left 2x4 SPF No.2 1-6-0

REACTIONS.

(size) 2=0-4-9, 8=Mechanical

Max Horz 2=78(LC 7)

Max Uplift 2=-87(LC 4), 8=-50(LC 8)

Max Grav 2=332(LC 1), 8=236(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-262/46

BOT CHORD 2-9=-49/266, 8-9=-49/266

WEBS 4-8=-293/73

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 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
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) 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

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-70, 5-6=-20, 7-10=-20 Concentrated Loads (lb)

Vert: 9=2(F=1, B=1)

OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 SSIONAL

Structural wood sheathing directly applied or 5-6-6 oc purlins,

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

except end verticals.

September 12,2021



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SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835335 2928314 J1 2 Jack-Open Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:18 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-GSCV7e46PBVgAw7eJD_DKHCu_IUUS0zIgeXiyEyfKKx -0-10-8 0-10-8 Scale = 1:10.3 5.00 12 2x4 || 2 1-1-5 0-3-6

2-0-0 SPACING-DEFL. **PLATES** GRIP LOADING (psf) 2-0-0 CSI. (loc) I/defI L/d **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) -0.00 5 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 вс 0.02 Vert(CT) -0.00 4-5 >999 180 WB 0.00 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MR Weight: 6 lb FT = 20%

BRACING-

2-0-0

LUMBER-

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

BOT CHORD 2x4 SPF No.2 WFBS

TOP CHORD

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

2x4 =

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

Max Horz 5=36(LC 12)

Max Uplift 3=-25(LC 12), 5=-30(LC 8)

Max Grav 3=48(LC 1), 4=33(LC 3), 5=174(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- 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.



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Structural wood sheathing directly applied or 2-0-0 oc purlins,

SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835336 2928314 J1A JACK-OPEN 2 Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

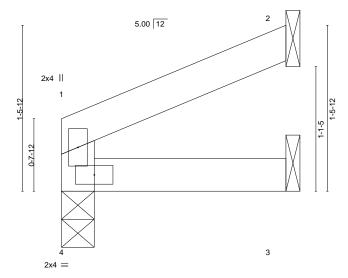
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:27 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-VAFv0jBmHyeOlJJNKceKCB4S3NYS34CdkXDgnDyfKKo

Structural wood sheathing directly applied or 2-0-0 oc purlins,

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

except end verticals

Scale = 1:10.3



2-0-0 2-0-0

LOADING (· /		2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	4	>999	240	MT20	197/144
TCDL '	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	3-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL '	10.0	Code IRC2018/TPI2	2014	Matri	x-MR						Weight: 5 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WFBS

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

2x4 SPF No.2

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

Max Horz 4=26(LC 9)

Max Uplift 2=-28(LC 12), 4=-4(LC 12) Max Grav 2=60(LC 1), 3=35(LC 3), 4=83(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 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.



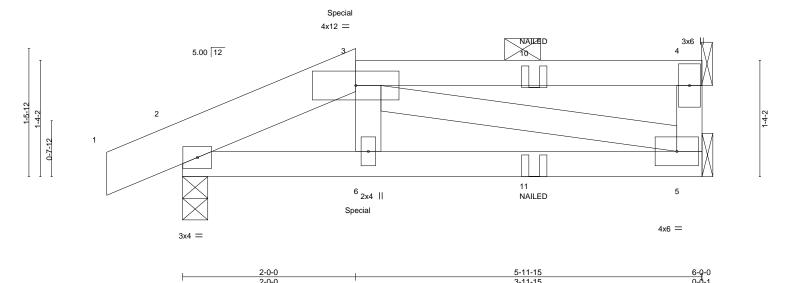






SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835337 2928314 J2 Half Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:29 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-RZNfQPC0pau6?dTlS1goHc9kNBCkXzHwCrinr5yfKKm

Scale = 1:13.3



	200		0 11 10	001		
LOADING (psf)	SPACING- 2-0-0 CSI.	DEFL.	in (loc) I/defl L/d	PLATES GRIP		
TCLL 25.0	Plate Grip DOL 1.15 TC	0.31 Vert(LL)	-0.01 5-6 >999 240	MT20 197/144		
TCDL 10.0	Lumber DOL 1.15 BC	0.17 Vert(CT)	-0.02 5-6 >999 180			
BCLL 0.0	Rep Stress Incr NO WB	0.09 Horz(CT)	0.00 4 n/a n/a			
BCDL 10.0	Code IRC2018/TPI2014 Matri	ix-MP		Weight: 23 lb FT = 20%		

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*

3-4: 2x4 SPF No.2

-0-10-8 0-10-8

2-0-0

BOT CHORD 2x4 SPF No 2

WFBS 2x4 SPF No 2

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

Max Horz 2=45(LC 7)

Max Uplift 2=-62(LC 8), 4=-48(LC 4)

Max Grav 5=137(LC 3), 2=333(LC 1), 4=135(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-383/51

BOT CHORD 2-6=-57/325, 5-6=-52/333

WFBS 3-5=-345/46

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 30 lb down and 63 lb up at 2-0-0 on top chord, and 25 lb down at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 6=-6(B) 11=1(B)



Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-4.

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

September 12,2021

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

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

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



SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835338 2928314 J3 Half Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:34 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-oXAYU7G9e6WO5OLjFaGz_fscoCwGCFGfL7PYWJyfKKh 3-10-8 6-0-0 0-10-8 3-10-8 Scale = 1:15.5 5x8 = 5.00 12 11 2-3-2 2-1-8 2 10 0-7-12 5 62x4 || 4x6 = 3-10-8 6-0-0 3-10-8 2-1-8 Plate Offsets (X,Y)--[3:0-4-2,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 25.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) -0.00 6-9 >999 240 MT20 197/144 TCDL Vert(CT) 10.0 Lumber DOL 1.15 BC 0.09 -0.01 6-9 >999 180 WB **BCLL** 0.0 Rep Stress Incr YES 0.04 Horz(CT) 0.00 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-AS Weight: 25 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

2-0-0 oc purlins: 3-4.

Rigid ceiling directly applied.

LUMBER-

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

2x4 SPF No 2 WFBS

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

Max Horz 2=71(LC 11)

Max Uplift 2=-55(LC 12), 5=-17(LC 9), 4=-25(LC 8) Max Grav 2=329(LC 1), 5=190(LC 1), 4=69(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-277/96 WFBS 3-5=-269/163

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-8, Exterior(2E) 3-10-8 to 5-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



Structural wood sheathing directly applied, except end verticals, and

September 12,2021



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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 SUMMIT/HAWTHORN RIDGE #134/MO 147835339 2928314 J4 Roof Special Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:35 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-GjkwhTHnPQeFjYwvoHnCWtPoXcFQxiNpan953lyfKKg 1-10-8 6-0-0 0-10-8 1-10-8 2-0-0 Scale = 1:14.9 3x6 || Special 5x8 = 4x6 = 5.00 12 1-11-5 0-7-12 6 3x4 = Special 3x4 =1-10-8 3-10-8 1-10-8 2-0-0 2-1-8 Plate Offsets (X,Y)--[4:0-3-14,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 25.0 Plate Grip DOL 1.15 TC 0.08 Vert(LL) -0.01 6-7 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.15 Vert(CT) -0.02 6-7 >999 180 WB **BCLL** 0.0 Rep Stress Incr NO 0.05 Horz(CT) 0.00 6 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-MP Weight: 25 lb FT = 20% LUMBER-**BRACING-**TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD

2x4 SPF No.2 *Except*

1-3: 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS.

(size) 6=Mechanical, 2=0-3-8, 5=Mechanical Max Horz 2=80(LC 7)

Max Uplift 6=-33(LC 8), 2=-68(LC 8), 5=-24(LC 8) Max Grav 6=197(LC 1), 2=343(LC 1), 5=69(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-414/62. 3-4=-362/64 BOT CHORD 2-7=-67/353, 6-7=-67/303

WEBS 4-6=-343/96

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 26 lb down and 58 lb up at 1-10-8 on top chord, and 27 lb down and 14 lb up at 1-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=-20(F)



except end verticals, and 2-0-0 oc purlins: 3-4.

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

September 12,2021



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

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

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



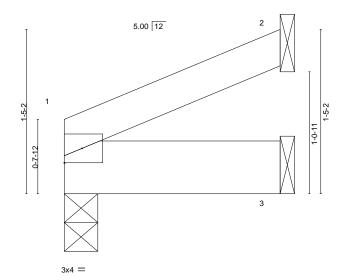
SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835340 2928314 J5 Jack-Open Job Reference (optional) Valley Center, KS - 67147,

Builders FirstSource (Valley Center),

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:36 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-kvlJuoIPAjm6KhV5M?IR34y_20dfg9QypRufbByfKKf

1-10-8 1-10-8

Scale = 1:10.0



1-10-8

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	6	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	6	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI	2014	Matri	x-MP						Weight: 6 lb	FT = 20%

LUMBER-

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

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins.

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

REACTIONS. (size) 1=0-3-8, 2=Mechanical, 3=Mechanical

Max Horz 1=28(LC 12)

Max Uplift 1=-5(LC 12), 2=-21(LC 12), 3=-4(LC 12) Max Grav 1=84(LC 1), 2=48(LC 1), 3=40(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- $1) \ \ Wind: ASCE\ 7-16; \ Vult=115 mph\ (3-second\ gust)\ \ Vasd=91 mph; \ TCDL=6.0 psf; \ BCDL=4.2 psf; \ h=15 ft; \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ Triangle (1) properties and the properties of the$ MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2, 3.
- 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.









SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835341 2928314 J6 9 Jack-Open Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:37 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-C5rh68l1x1uzyr4lwipgblU7lPyNPcg515eC7eyfKKe -0-10-8 0-10-8 4-0-0 Scale = 1:14.4 5.00 12 1-11-5 2x4 || 2 0-7-12 0-3-6 4-0-0 4-0-0 GRIP SPACING-2-0-0 DEFL. LOADING (psf) CSI. (loc) I/defI L/d **PLATES TCLL** 25.0 Plate Grip DOL 1.15 TC 0.19 Vert(LL) -0.01 4-5 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 вс 0.12 Vert(CT) -0.02 4-5 >999 180 WB 0.00 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.01 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-AS Weight: 11 lb FT = 20% BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD BOT CHORD

WFBS

2x4 SPF No.2 2x4 SPF No.2

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

2x4 SPF No.2

Max Horz 5=66(LC 12) Max Uplift 3=-53(LC 12), 5=-35(LC 12)

Max Grav 3=117(LC 1), 4=70(LC 3), 5=252(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

September 12,2021



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



SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835342 2928314 J7 Jack-Open Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:38 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-glP3JUJfiL0qa?fUUQLv8V1I8plu83wFGlOlg4yfKKd

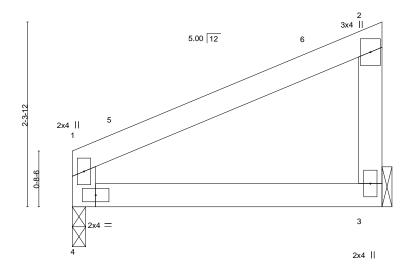
Structural wood sheathing directly applied or 3-10-8 oc purlins,

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

except end verticals

<u>3-10-8</u> 3-10-8

Scale = 1:14.4



3-10-8 3-10-8

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL) -0.01 3-4 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) -0.01 3-4 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R		Weight: 12 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

Max Horz 4=74(LC 11) Max Uplift 3=-38(LC 12), 4=-21(LC 12)

Max Grav 3=161(LC 1), 4=161(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 3-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Ply SUMMIT/HAWTHORN RIDGE #134/MO 147835343 2928314 J8 Roof Special Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:40 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-cgXpkALwDyGYpJpsbqNNDw6fGdyrczeYk3tskzyfKKb 4-0-0 6-0-0 0-10-8 2-0-0 2-0-0 Scale = 1:14.9 3x4 II 5 0-4-7 NAILED 5x8 = 4x6 = 5.00 12 2-3-12 2-3-12 1-11-5 0 - 7 - 128 3x4 =3x6 =Special 6 2-0-0 4-0-0 6-0-0 2-0-0 2-0-0 2-0-0 Plate Offsets (X,Y)--[4:0-3-14,Edge], [5:0-3-0,0-0-8] LOADING (psf) SPACING-CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 25.0 Plate Grip DOL 1.15 TC 0.08 Vert(LL) -0.01 7-8 >999 240 MT20 197/144

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.02

0.00

7-8

>999

n/a

180

n/a

except end verticals, and 2-0-0 oc purlins: 3-4.

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

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Weight: 25 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

2x4 SPF No.2 *Except* TOP CHORD

1-3: 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS.

10.0

0.0

10.0

(size) 5=Mechanical, 7=Mechanical, 2=0-3-8 Max Horz 2=78(LC 24)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

Max Uplift 5=-21(LC 5), 7=-44(LC 8), 2=-85(LC 8) Max Grav 5=61(LC 1), 7=228(LC 1), 2=373(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-468/99. 3-4=-412/100 BOT CHORD 2-8=-101/402. 7-8=-73/294

WEBS 4-7=-349/107

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

BC

WB

Matrix-MP

0.14

0.05

- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

NO

- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 79 lb down and 52 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 4-5=-70, 6-9=-20

Concentrated Loads (lb)

Vert: 8=-79(B)



September 12,2021

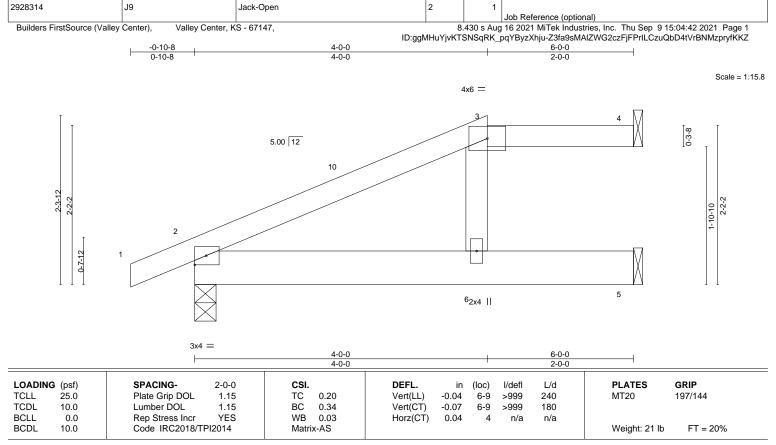


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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





Qty

Ply

LUMBER-

Job

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

2x4 SPF No.2 WFBS

BRACING-

TOP CHORD Structural wood sheathing directly applied, except

SUMMIT/HAWTHORN RIDGE #134/MO

147835344

2-0-0 oc purlins: 3-4

BOT CHORD Rigid ceiling directly applied.

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

Max Horz 2=69(LC 12)

Truss

Truss Type

Max Uplift 4=-24(LC 8), 2=-51(LC 12), 5=-23(LC 12) Max Grav 4=68(LC 1), 2=333(LC 1), 5=195(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-0, Exterior(2E) 4-0-0 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 12,2021



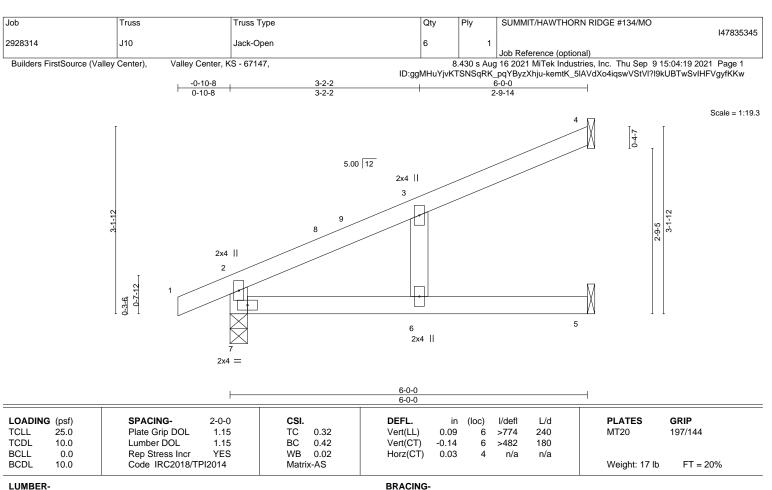


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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TOP CHORD

BOT CHORD

LUMBER-TOP CHORD BOT CHORD

WFBS

2x4 SPF No.2 2x4 SPF No.2

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 7=0-3-8

Max Horz 7=97(LC 12)

2x4 SPF No.2

Max Uplift 4=-56(LC 12), 5=-14(LC 12), 7=-44(LC 12) Max Grav 4=153(LC 1), 5=101(LC 1), 7=338(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 7.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

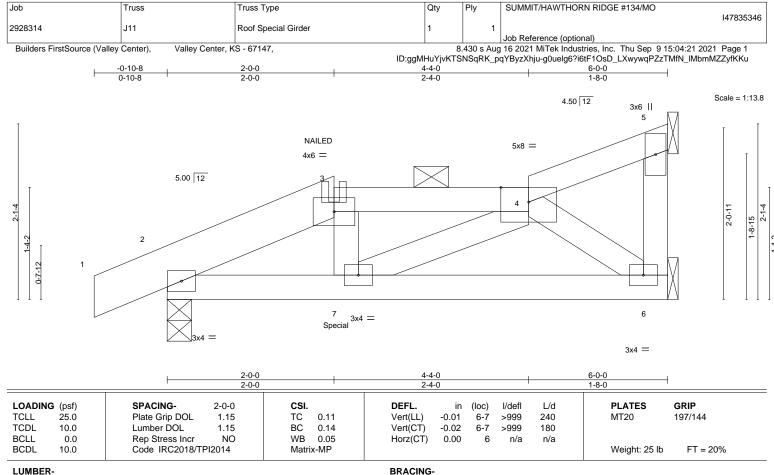


Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.







TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

1-3: 2x6 SPF No.2

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

REACTIONS.

(size) 6=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=72(LC 24)

Max Uplift 6=-49(LC 8), 2=-87(LC 8), 5=-19(LC 5) Max Grav 6=235(LC 1), 2=379(LC 1), 5=53(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-483/103. 3-4=-425/103

BOT CHORD 2-7=-100/415. 6-7=-68/274

WFBS 4-6=-339/103

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 79 lb down and 52 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb) Vert: 7=-79(F)



Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-4.

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

September 12,2021



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SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835347 2928314 J13 Jack-Open Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:22 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-8DR0y07dTQ?5fYRPY229V7NZaMq8OqyubFVv5?yfKKt 3-10-8 Scale = 1:13.3

4.50 12 0-7-13

> 3-10-8 3-10-8

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	0.01	3-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	3-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MP						Weight: 12 lb	FT = 20%

LUMBER-

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

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins.

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

REACTIONS. (size) 1=0-2-0, 2=Mechanical, 3=Mechanical

Max Horz 1=52(LC 12)

Max Uplift 1=-17(LC 12), 2=-43(LC 12), 3=-1(LC 12) Max Grav 1=172(LC 1), 2=104(LC 1), 3=81(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

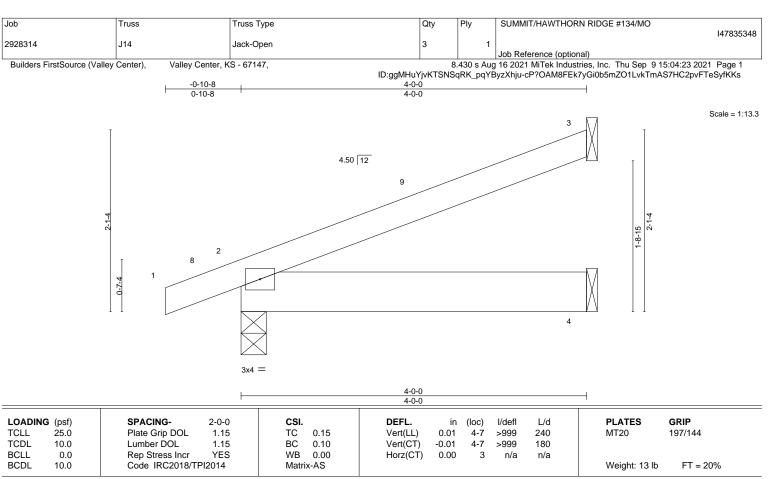
- $1) \ \ Wind: ASCE\ 7-16; \ Vult=115 mph\ (3-second\ gust)\ \ Vasd=91 mph; \ TCDL=6.0 psf; \ BCDL=4.2 psf; \ h=15 ft; \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ II; \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ Enclosed; \ ASCE\ True (1) \ \ Cat.\ \ Exp\ C; \ \ Exp\ C$ MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 3-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2, 3.
- 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.











LUMBER-

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

TOP CHORD BOT CHORD Structural wood sheathing directly applied.

Rigid ceiling directly applied.

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

Max Horz 2=66(LC 8)

Max Uplift 3=-43(LC 12), 2=-49(LC 8)

Max Grav 3=104(LC 1), 2=245(LC 1), 4=82(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 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.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835349 2928314 J15 2 Jack-Open Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:23 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-cP?OAM8FEk7yGi0b5mZO1Lvm?mBg7HC2pvFTeSyfKKs -0-10-8 0-10-8 Scale = 1:10.1 4.50 12 2 0-7-4

2-2-14

LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.05	DEFL. in (loc) I/defl L/d Vert(LL) -0.00 7 >999 240 Vert(CT) -0.00 7 -0.00 400	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.02 WB 0.00 Matrix-MP	Vert(CT) -0.00 7 >999 180 Horz(CT) 0.00 3 n/a n/a	Weight: 8 lb FT = 20%

LUMBER-

2x4 SPF No.2 TOP CHORD BOT CHORD 2x6 SPF No 2 BRACING-

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-2-14 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 2=43(LC 8)

Max Uplift 3=-22(LC 12), 2=-43(LC 8), 4=-1(LC 12) Max Grav 3=52(LC 1), 2=172(LC 1), 4=44(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 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.

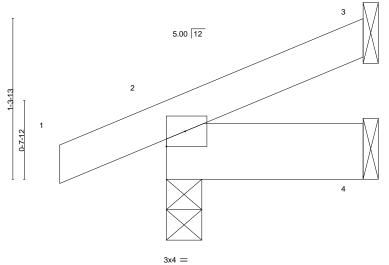


September 12,2021





SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835350 2928314 J16 Jack-Open Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:24 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-4bZmNi8t?1FpurbofT4daYSxlAX4skSB2Z_0AuyfKKr -0-10-8 0-10-8 Scale = 1:9.5



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) -0.00 7 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(CT) -0.00 7 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 6 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

1-7-6

LUMBER-

REACTIONS.

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

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

Max Horz 2=36(LC 12)

Max Uplift 3=-17(LC 12), 2=-27(LC 8), 4=-1(LC 12) Max Grav 3=37(LC 1), 2=150(LC 1), 4=31(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 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.



Structural wood sheathing directly applied or 1-7-6 oc purlins.

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

September 12,2021





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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



SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835351 2928314 J17 3 Jack-Open Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:25 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-Yo79b29WmLNgW?9_DBcs6m?3baqPbAiKHDkZiKyfKKq -0-10-8 4-5-8 0-10-8 Scale = 1:14.2 4.50 12 8 3x6 II 3x4 || Plate Offsets (X,Y)-- [2:0-2-0,0-4-11]

LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.02	4-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.04	4-7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	12014	Matri	x-AS						Weight: 13 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=72(LC 8)

Max Uplift 3=-52(LC 12), 2=-49(LC 8)

Max Grav 3=131(LC 1), 2=265(LC 1), 4=79(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 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.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



September 12,2021



SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835352 2928314 J18 Jack-Closed Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:26 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-1_hXoOA8WfVX89kAnu75fzXGo_BvKbdUWtT7EnyfKKp 2-2-12 2-2-12 4-5-8 Scale = 1:14.2 2x4 || 4.50 12 3x4 = 2 LUS24 ⁷3x6 II 4x6 = LUS24 2-2-12 4-5-8

Plate Offsets (X,Y)-- [1:0-1-10,0-1-8], [7:0-4-4,0-1-8]

LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL)	-0.01	7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.12	Vert(CT)	-0.01	7	>999	180		
BCLL	0.0	Rep Stress Incr NO	WB 0.15	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP						Weight: 21 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2 WFBS

REACTIONS. (size) 1=0-3-8, 6=Mechanical

Max Horz 1=71(LC 27)

Max Uplift 1=-231(LC 8), 6=-156(LC 8) Max Grav 1=1113(LC 1), 6=600(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-905/215

BOT CHORD 1-7=-213/837 6-7=-213/837 WFBS 2-7=-146/609. 2-6=-950/257

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2-2-12

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=231, 6=156.
- 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.
- 6) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-6-4 from the left end to 2-6-4 to connect truss(es) to front face of bottom chord.
- 7) Fill all nail holes where hanger is in contact with lumber.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=-611(F) 10=-714(F)



Structural wood sheathing directly applied or 4-5-8 oc purlins,

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

except end verticals.

September 12,2021

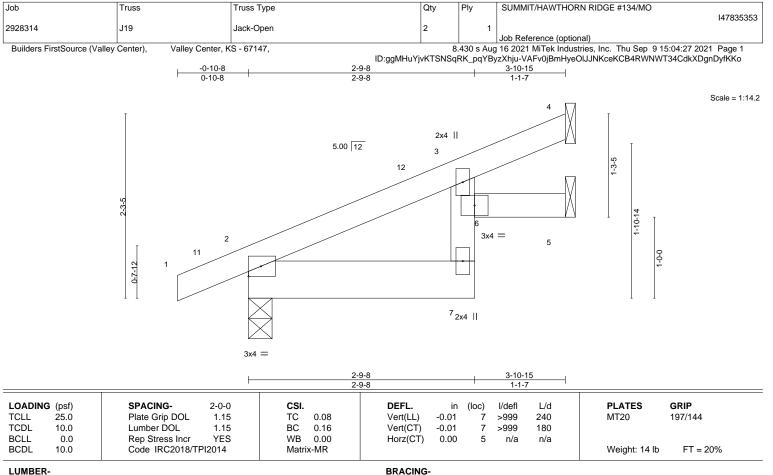


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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





TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2-7: 2x6 SPF No.2

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

Max Horz 2=70(LC 12)

Max Uplift 4=-28(LC 12), 2=-34(LC 12), 5=-18(LC 12) Max Grav 4=81(LC 1), 2=241(LC 1), 5=85(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 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.



Structural wood sheathing directly applied or 3-10-15 oc purlins.

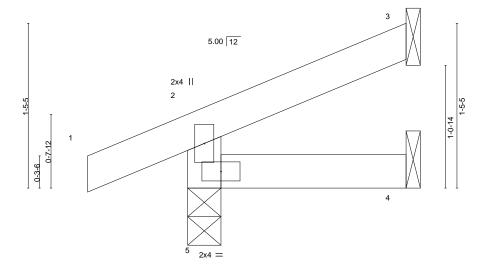
Rigid ceiling directly applied or 10-0-0 oc bracing.



SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835354 2928314 J20 6 Jack-Open Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:29 2021 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-RZNfQPC0pau6?dTIS1goHc9nCBE5X_hwCrinr5yfKKm -0-10-8 1-10-15 1-10-15 0-10-8

Scale = 1:10.1



1-10-15 1-10-15

LOADING (ps	f)	SPACING- 2-0	0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.	0	Plate Grip DOL 1.	.15	TC	0.07	Vert(LL)	-0.00	5	>999	240	MT20	197/144
TCDL 10.	0	Lumber DOL 1.	.15	BC	0.02	Vert(CT)	-0.00	5	>999	180		
BCLL 0.	0	Rep Stress Incr YE	ES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.	0	Code IRC2018/TPI201	4	Matri	x-MR						Weight: 6 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SPF No.2 WFBS

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

Max Horz 5=35(LC 12)

Max Uplift 3=-24(LC 12), 5=-31(LC 8)

Max Grav 3=44(LC 1), 4=31(LC 3), 5=171(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- 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.



Structural wood sheathing directly applied or 1-10-15 oc purlins,

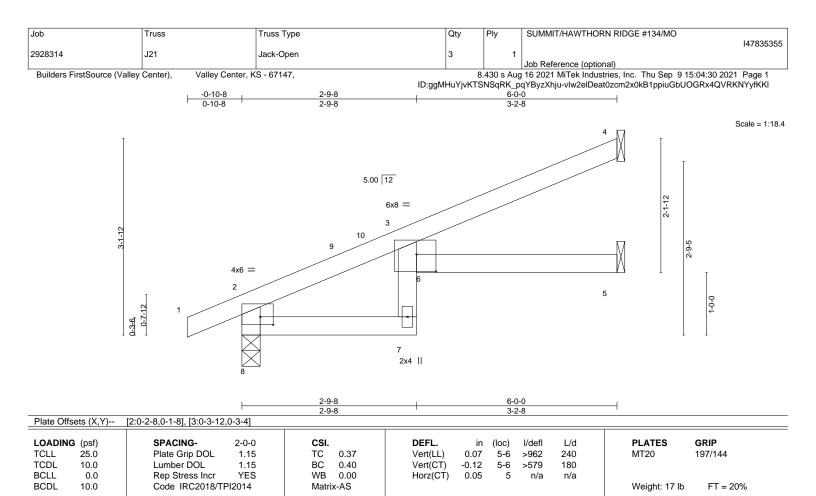
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

September 12,2021







BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD 2x4 SPF No 2 WFBS

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

Max Horz 8=97(LC 12)

Max Uplift 4=-62(LC 12), 5=-8(LC 12), 8=-44(LC 12) Max Grav 4=164(LC 1), 5=97(LC 3), 8=338(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-8=-317/157, 2-3=-286/61

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 8.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

September 12,2021

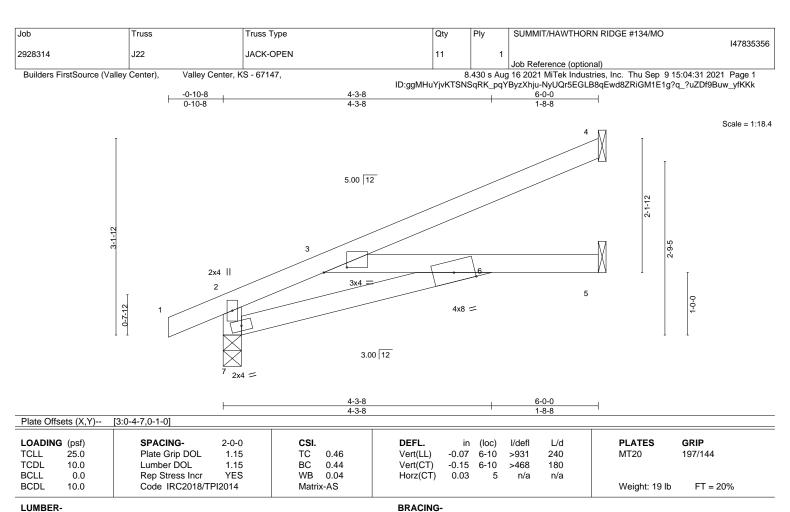


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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





TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD 2x4 SPF No 2 WFBS

REACTIONS. 4=Mechanical, 5=Mechanical, 7=0-3-8 (size)

Max Horz 7=102(LC 12)

Max Uplift 4=-56(LC 12), 5=-4(LC 12), 7=-31(LC 12) Max Grav 4=167(LC 1), 5=141(LC 3), 7=366(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-7=-325/180

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-3-11, Interior(1) 2-3-11 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 7.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



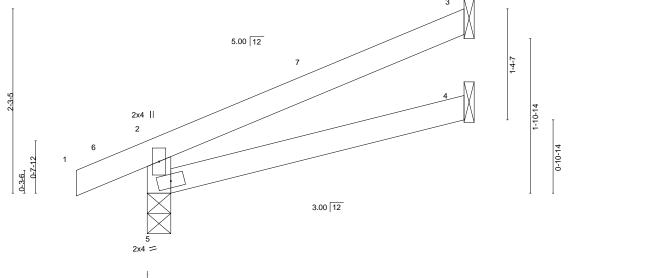
Structural wood sheathing directly applied.

Rigid ceiling directly applied.





SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835357 2928314 J23 2 Jack-Open Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:32 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-r82o3RFv6VGhs4CK79EVuEnFWOEGkLRMupwRSQyfKKj -0-10-8 3-10-15 3-10-15 0-10-8 Scale = 1:14.2



SPACING-GRIP LOADING (psf) 2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES TCLL** 25.0 Plate Grip DOL 1.15 TC 0.19 Vert(LL) -0.01 4-5 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 вс 0.12 Vert(CT) -0.02 4-5 >999 180 WB 0.00 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.01 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MR Weight: 11 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SPF No.2 WFBS

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

Max Horz 5=64(LC 12)

Max Uplift 3=-51(LC 12), 5=-34(LC 12)

Max Grav 3=114(LC 1), 4=69(LC 3), 5=248(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- 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.



Structural wood sheathing directly applied or 3-10-15 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals

September 12,2021





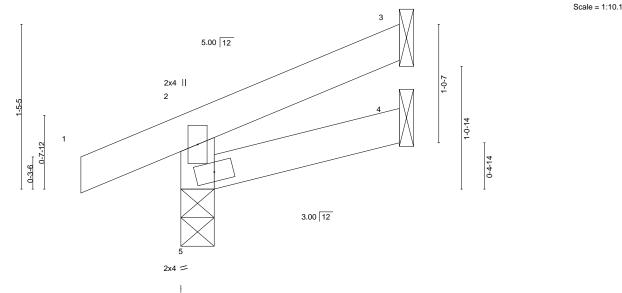
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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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



SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835358 2928314 J24 2 Jack-Open Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:33 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-JKcAGnFXtoOYTEnWhslkRSKSCob?TohW7Tg__tyfKKi 1-10-15 1-10-15 0-10-8



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 5 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00 5 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR		Weight: 6 lb FT = 20%
			Horz(CT) 0.00 3 n/a n/a	Weight: 6 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WFBS

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

2x4 SPF No.2

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

Max Horz 5=35(LC 12)

Max Uplift 3=-24(LC 12), 5=-30(LC 8)

Max Grav 3=44(LC 1), 4=31(LC 3), 5=171(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- 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.



Structural wood sheathing directly applied or 1-10-15 oc purlins,

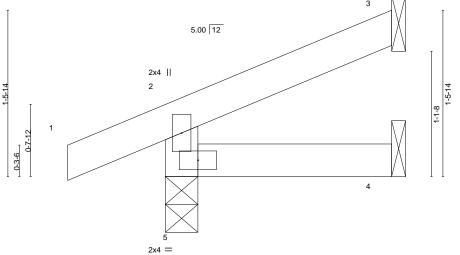
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals





SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835359 2928314 J25 Jack-Open Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:33 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-JKcAGnFXtoOYTEnWhslkRSKSCob?TohW7Tg__tyfKKi -0-10-8 0-10-8 Scale = 1:10.3



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL . in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00	5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00	5	>999	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR	, ,				Weight: 6 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

2-0-5 2-0-5

LUMBER-

REACTIONS.

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

2x4 SPF No.2 WFBS

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

Max Horz 5=36(LC 12)

Max Uplift 3=-25(LC 12), 5=-31(LC 8)

Max Grav 3=47(LC 1), 4=33(LC 3), 5=173(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- 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.



Structural wood sheathing directly applied or 2-0-5 oc purlins,

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

except end verticals





SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835360 2928314 LG1 **GABLE** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:46 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-Rqu5?DPhpo1hXEG0y5UnTBMhy21v0fGQ6_KAycyfKKV 7-10-11 7-10-11 23-10-1 15-11-6 Scale = 1:53.3 6x8 📏 6x8 // 12 13 13.00 12 Ø Ø X X Ø 15 16 13.00 12

19-8-12	25-8-12
19-8-12	6-0-0
[5:0-2-0 Edge] [13:0-2-0 Edge] [14:Edge 0-1-8]	

20

19

18

21

Flate Offsets (A, 1) [5.0-2-9, Edgej, [15.0-2-9, Edgej, [14. Edge, 0-1-8]													
LOADIN	\(\(\)	SPACING-	2-0-0	CSI.	0.07	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL TCDL	25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC BC	0.07 0.03	Vert(LL) Vert(CT)	n/a	-	n/a	999 999	MT20	197/144	
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	n/a -0.00	14	n/a n/a	999 n/a			
BCDL	10.0	Code IRC2018/TPI		Matri		1.0.2(0.7)	0.00	• •	.,, a	.,,	Weight: 154 lb	FT = 20%	

LUMBER-

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

2x4 SPF No.2 **OTHERS**

BRACING-

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

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS** 1 Row at midpt 11-17, 10-18, 9-19, 8-20, 5-23, 6-22, 7-21

REACTIONS. All bearings 25-8-12.

Max Horz 1=263(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 14, 15, 16, 17, 18, 19, 20, 23, 22, 21 except 27=-121(LC 12),

25=-119(LC 12), 24=-122(LC 12)

25

24

23

22

26

3x4 =

27

Max Grav All reactions 250 lb or less at joint(s) 1, 14, 15, 16, 17, 18, 19, 20, 27, 25, 24, 23, 22, 21

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-317/222

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 7-10-11, Exterior(2R) 7-10-11 to 12-0-0, Interior(1) 12-0-0 to 23-10-1, Exterior(2E) 23-10-1 to 25-6-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 14, 15, 16, 17, 18, 19, 20, 23, 22, 21 except (jt=lb) 27=121, 25=119, 24=122.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 14, 15, 16.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 12,2021



SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835361 2928314 LG2 **GABLE** Job Reference (optional)

4x6 =

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

<u>7-10-6</u>

7-10-6

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:48 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-ND0rQvRxLPHPmXQP3WWFYcS1ZrjIUYajZlpH0VyfKKT

15-8-12 7-10-6

Scale = 1:50.2

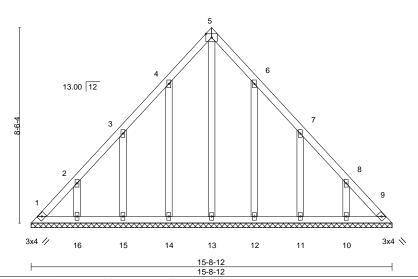


Plate Offsets (X,Y)-- [2:0-0-0,0-0-0], [3:0-0-0,0-0-0], [4:0-0-0,0-0-0], [5:Edge,0-1-15]

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	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 0.18	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S						Weight: 78 lb	FT = 20%

LUMBER-BOT CHORD

OTHERS

TOP CHORD 2x4 SPF No 2 2x4 SPF No 2

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. All bearings 15-8-12.

(lb) -Max Horz 1=-196(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 10=-120(LC 13), 11=-122(LC 13), 12=-113(LC 13),

16=-120(LC 12), 15=-121(LC 12), 14=-115(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 10, 11, 12, 16, 15, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-262/168

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 7-10-6, Exterior(2R) 7-10-6 to 10-10-6, Interior(1) 10-10-6 to 15-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 10=120, 11=122, 12=113, 16=120, 15=121, 14=115.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



September 12,2021





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



SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835362 2928314 LG3 **GABLE** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:50 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-Kc8bqbTBt1X70ranBxYjd1XMjfPWyTH01clO5NyfKKR 5-6-13 Scale = 1:36.8 3x4 // 5 7 8 3x4 = 14.24 12 10 14.24 12 * 3x4 // 16 15 14 13 12 3x4 // 9-9-1 15-3-13 9-9-1 5-6-13 Plate Offsets (X,Y)--[4:0-1-5,Edge], [9:0-0-11,0-1-8]

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	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	0.10	Horz(CT)	-0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 72 lb	FT = 20%

LUMBER-TOP CHORD

2x4 SPF No 2 BOT CHORD 2x4 SPF No 2

2x4 SPF No 2 **OTHERS**

BRACING-

BOT CHORD

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

2-0-0 oc purlins (6-0-0 max.): 4-9.

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

REACTIONS. All bearings 15-3-13.

(lb) -Max Horz 1=233(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 12, 14, 13, 11, 10 except 16=-163(LC 12), 15=-105(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 12, 16, 15, 14, 13, 11 except 10=254(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-12 to 3-3-12, Interior(1) 3-3-12 to 5-6-13, Exterior(2R) 5-6-13 to 8-4-12 , Interior(1) 8-4-12 to 15-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 12, 14, 13, 11, 10 except (it=lb) 16=163, 15=105.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 11, 10.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







Job	Truss	Truss Type	Q	ty Ply	SUMMIT/HAWTHOR	RN RIDGE #134/MO	
2928314	LG4	GABLE	1		1		147835363
2920314	104	GABLE	'		Job Reference (option	nal)	
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		8.430 s A	ug 16 2021 MiTek Indus	tries, Inc. Thu Sep 9 15	5:04:51 2021 Page 1
			ID:ggMHuY		oqYByzXhju-ooi_2xTpek	(f_d?9_ke3yAE3XU3km	hwm9FG1xdqyfKKQ
	5-1-14 5-1-14			14-10-14 9-9-1			
	5-1-12	•		9-9-1			
		3x4 //					Scale = 1:34.3
	T	4 5	6	7	8 🖂	9 [8,0]	T
	14.24 12 CC	3			10	3x4 =	6-1-6
				·····	***************************************		
	3x4 // 16	15 14	13	12 1			
		0.04		3x4	1 //		
		9-9-1 9-9-1			14-10-14 5-1-14		
Plate Offsets (X,Y) [4:0)-1-5,Edge], [9:0-0-11,0-1-8]	3-3-1			J-1-1 4		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	TC 0.08 BC 0.05	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - -0.00 9	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 68 lb	GRIP 197/144 FT = 20%

LUMBER-

OTHERS

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

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

2-0-0 oc purlins (6-0-0 max.): 4-9.

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

REACTIONS. All bearings 14-10-14.

(lb) - Max Horz 1=215(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 12, 14, 13, 11, 10 except 16=-145(LC 12), 15=-111(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 12, 16, 15, 14, 13, 11 except 10=253(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-12 to 3-3-12, Interior(1) 3-3-12 to 5-1-14, Exterior(2R) 5-1-14 to 8-0-0, Interior(1) 8-0-0 to 14-7-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 12, 14, 13, 11, 10 except (jt=lb) 16=145, 15=111.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 11, 10.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 12,2021





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



SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835364 2928314 LG5 **GABLE** Job Reference (optional)

4x6 =

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

7-10-6 7-10-6

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:53 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-kApkTcV4AyvitJIMs36QFf9uJsQT9pqSjaW2hiyfKKO 15-8-12

7-10-6

Scale = 1:50.2

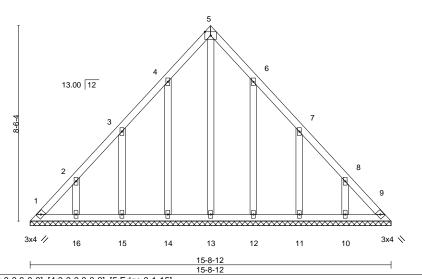


Plate Offsets (X,Y)-- [2:0-0-0,0-0-0], [3:0-0-0,0-0-0], [4:0-0-0,0-0-0], [5:Edge,0-1-15]

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	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 0.18	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S						Weight: 78 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No 2 2x4 SPF No 2

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-8-12.

(lb) -Max Horz 1=-196(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 10=-120(LC 13), 11=-122(LC 13), 12=-113(LC 13),

16=-120(LC 12), 15=-121(LC 12), 14=-115(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 10, 11, 12, 16, 15, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-262/168

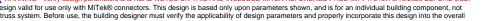
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 7-10-6, Exterior(2R) 7-10-6 to 10-10-6, Interior(1) 10-10-6 to 15-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 10=120, 11=122, 12=113, 16=120, 15=121, 14=115.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



September 12,2021





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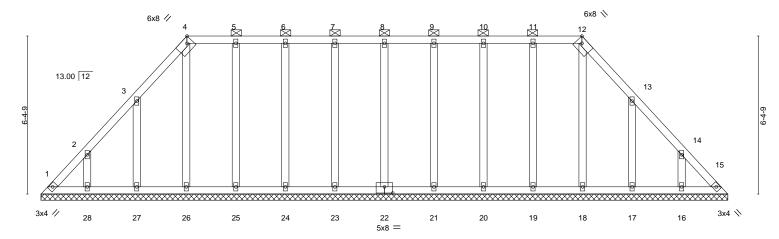


SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835365 2928314 LG6 **GABLE** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:54 2021 Page 1

5-10-11

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-CNN6gyWiwF1ZUStZQndfoth37GmvuHMcyEGcE9yfKKN 27-8-12 15-11-6

Scale = 1:46.5



27-8-12 [4:0-2-9,Edge], [12:0-2-9,Edge], [22:0-4-0,0-3-0] Plate Offsets (X.Y)--

	tate enough (A) (A) [the z ejzagej [tzte z ejzagej [zzte k eje e ej											
LOADING	G (psf)	SPACING- 2-0-	0 0	SI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL 1.1	5 7	C 0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144	
TCDL	10.0	Lumber DOL 1.1	5 E	C 0.02	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0	Rep Stress Incr YE	S V	VB 0.10	Horz(CT)	0.01	15	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014	l l	/latrix-S						Weight: 140 lb	FT = 20%	

TOP CHORD 2x4 SPF No 2

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

BRACING-

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

2-0-0 oc purlins (6-0-0 max.): 4-12.

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

REACTIONS. All bearings 27-8-12.

Max Horz 1=-145(LC 8)

5-10-11

Max Uplift All uplift 100 lb or less at joint(s) 1, 15, 22, 23, 24, 25, 26, 21, 20, 19 except 27=-129(LC 12), 28=-114(LC 12), 17=-129(LC 13), 16=-115(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 15, 22, 23, 24, 25, 26, 27, 28, 21, 20, 19, 18, 17, 16

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

LUMBER-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 5-10-11, Exterior(2R) 5-10-11 to 9-10-6, Interior(1) 9-10-6 to 21-10-1, Exterior(2R) 21-10-1 to 25-10-6, Interior(1) 25-10-6 to 27-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 15, 22, 23, 24, 25, 26, 21, 20, 19 except (jt=lb) 27=129, 28=114, 17=129, 16=115.
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 12,2021



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SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835366 2928314 LG7 **GABLE** Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:56 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-8IVt5eXyStHHkm1xXBf7tInPd4SNMCzuPYlil1yfKKL

3-10-6 3-10-6 3-10-6

> Scale = 1:28.6 4x6 =

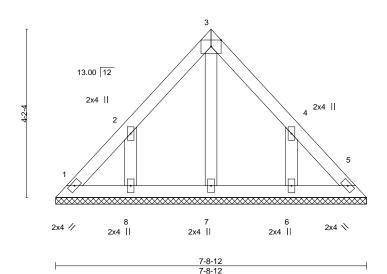


Plate Offsets (X,Y)--[3:Edge,0-1-15] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) n/a n/a 999 MT20 197/144 TCDL Vert(CT) 10.0 Lumber DOL 1.15 BC 0.02 n/a n/a 999 WB **BCLL** 0.0 Rep Stress Incr YES 0.03 Horz(CT) 0.00 5 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-P Weight: 28 lb FT = 20%

LUMBER-

OTHERS

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

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

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

REACTIONS. All bearings 7-8-12.

(lb) -Max Horz 1=-92(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-133(LC 12), 6=-133(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 3-10-6, Exterior(2R) 3-10-6 to 6-10-6, Interior(1) 6-10-6 to 7-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=133, 6=133,
- 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.



September 12,2021





SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835367 2928314 V1 Valley Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:56 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-8IVt5eXyStHHkm1xXBf7tlnKy4PUMCbuPYlil1yfKKL 11-6-12 5-9-6 5-9-6 Scale = 1:18.4 4x6 = 2 5.00 12 3x4 >

11-6-12 0-0-10 11-6-2

LOADING (p	osf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 25	5.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10	0.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
BCLL 0	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10	0.0	Code IRC2018/TF	PI2014	Matrix	<-S						Weight: 28 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

2x4 ||

LUMBER-

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

3x4 =

2x4 SPF No.2 **OTHERS**

REACTIONS. (size) 1=11-5-8, 3=11-5-8, 4=11-5-8

Max Horz 1=33(LC 16)

Max Uplift 1=-39(LC 12), 3=-45(LC 13), 4=-38(LC 12) Max Grav 1=205(LC 25), 3=205(LC 26), 4=506(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-4=-355/178

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 5-9-6, Exterior(2R) 5-9-6 to 8-9-6, Interior(1) 8-9-6 to 10-9-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 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.



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

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

September 12,2021





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

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

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



SUMMIT/HAWTHORN RIDGE #134/MO Job Truss Truss Type Qty Ply 147835368 2928314 V2 Valley Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 9 15:04:57 2021 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-dy3FI_YaDAP8Mwc85vAMPVJYhTnn5fE2eCUGqUyfKKK

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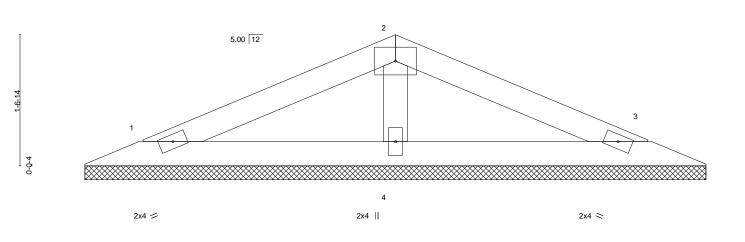
4x6 =

7-6-12

3-9-6

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

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



7-6-12 0-0-10 LOADING (psf) GRIP SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES TCLL** 25.0 Plate Grip DOL 1.15 TC 0.16 Vert(LL) n/a n/a 999 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 вс 0.08 Vert(CT) n/a n/a 999 YES WB 0.03 **BCLL** 0.0 Rep Stress Incr Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 17 lb FT = 20%

> BRACING-TOP CHORD

> BOT CHORD

7-6-2

LUMBER-

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

REACTIONS. (size) 1=7-5-8, 3=7-5-8, 4=7-5-8

Max Horz 1=-20(LC 17)

Max Uplift 1=-29(LC 12), 3=-32(LC 13), 4=-13(LC 12) Max Grav 1=135(LC 1), 3=135(LC 1), 4=275(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3-9-6

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 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.







Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

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

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

PLATE SIZE

4 × 4

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

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



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

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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

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

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