Job	Truss	Truss Type	Qty	Ply	Piper-Roof
Q-2100416-1	T1	Roof Special	11	1	Job Reference (optional)

Run: 8.31 S Sep 9 2019 Print: 8.310 S Sep 9 2019 MiTek Industries, Inc. Fri Feb 12 10:31:07 Page: 1 ID:jd92y4_nmmjdaVYV0hvvq0zmw7t-BfXnEBC1IQ4E3IaT5ofYZeZaGLCS2NJLa8Oqm2zlwP2



Scale = 1:72.4

Plate Offsets (X, Y): [13:0-3-0,0-0-4], [15:0-3-12,0-3-0]

												_	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.16	16-18	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.26	16-18	>999	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.02	16	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 246 lb	FT = 20%	

LUMBER TOP CHORD BOT CHORD WEBS	2x4 SP No.1 2x4 SP No.1 2x4 SP No.3	BRACING TOP CHORD BOT CHORD WEBS	Structural wood sheathing directly applied or 4-6-6 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing. <u>1 Row at midpt</u> 7-16, 8-16, 9-16
SLIDER	Right 2x4 SP No.3 2-6-0		MiTek recommends that Stabilizers and required cross bracing be
REACTIONS (Ib	/size) 2=766/0-3-8, (min. 0-1-8), 13=171/0-3-8, (min. 0-1-8), 16=2476/(0-3-8 + bearing block), (req. 0-3-14)		installed during truss erection, in accordance with Stabilizer Installation guide.
Ma	ax Horiz 2=212 (LC 10)		
Ma Ma	ax Uplift 2=-109 (LC 11), 13=-141 (LC 20), 16=-338 (LC 11) ax Grav 2=777 (LC 20), 13=398 (LC 21), 16=2476 (LC 1)		
FORCES TOP CHORD	(Ib) - Max. Comp./Max. Ten All forces 250 (Ib) or less except when shown 2-28=-1547/168, 3-28=-1512/186, 3-4=-1200/97, 4-5=-1105/116, 7-8=0/892 10-11=-215/467, 11-30=-234/460, 12-30=-323/418, 12-13=-458/0	2, 8-29=0/911, 9-29=0/7	779, 9-10=-51/522,
BOT CHORD	2-20=-138/1444, 19-20=-15/782, 18-19=-15/782, 18-31=-376/198, 31-32=- 15-16=-516/180, 15-33=-516/180, 33-34=-516/180, 14-34=-516/180, 13-14	376/198, 17-32=-376/1 =-336/268	98, 16-17=-376/198,
WEBS	3-20=-440/156, 5-20=0/536, 5-18=-790/171, 6-18=-307/151, 7-18=-173/105 9-16=-609/210, 9-14=-54/529, 11-14=-314/170	54, 7-16=-762/228, 8-1	l6=-1177/64,

NOTES

2x4 SP No.1 bearing block 12" long at jt. 16 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 SPF No.2.
 Unbalanced roof live loads have been considered for this design.

3) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=42ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 3-2-5, Interior (1) 3-2-5 to 25-5-8, Exterior (2) 25-5-8 to 29-7-13, Interior (1) 29-7-13 to 41-11-0 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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 2, 338 lb uplift at joint 16 and 141 lb uplift at joint 13.

6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Piper-Roof
Q-2100416-1	T1A	Roof Special	3	1	Job Reference (optional)

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Scale = 1:73.9

Plate Offsets (X, Y): [2:0-0-2,Edge], [7:0-1-4,0-1-8], [16:0-3-4,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.38	17-18	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.74	17-18	>684	180	MT20HS	187/143	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.16	13	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 247 lb	FT = 20%	

LUMBER TOP CHORD BOT CHORD WEBS SLIDER	2x4 SP No.1 2x4 SP No.1 2x4 SP No.3 Right 2x4 SP No.3 2-6-0	BRACING TOP CHORD BOT CHORD WEBS	Structural wood sheathing directly applied or 2-3-13 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-11-0 oc bracing: 2-20. 1 Row at midpt 7-17, 9-17
REACTIONS (Ib M M	o/size) 2=1737/0-3-8, (min. 0-2-12), 13=1737/0-3-8, (min. 0-2-12) ax Horiz 2=215 (LC 10) ax Uplift 2=-241 (LC 11), 13=-241 (LC 11)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
FORCES TOP CHORD	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown 2-28=-4507/576, 3-28=-4472/594, 3-4=-4181/512, 4-5=-4131/527, 5-6=-32 8-29=-1809/396, 9-29=-1899/364, 9-10=-2260/386, 10-11=-2339/353, 11-3	n. 27/458, 6-7=-3705/617 90=-2393/354, 12-30=-2	, 7-8=-1873/404, 2469/338, 12-13=-1054/1

BOT CHORD 2-20=-494/4246, 19-20=-377/3633, 18-19=-377/3633, 18-31=-101/2139, 31-32=-101/2139, 17-32=-100/2000

16-17=-81/1796, 16-33=-81/1796, 33-34=-81/1796, 15-34=-81/1796, 13-15=-177/1993

WEBS 3-20=-408/151, 5-20=0/506, 5-18=-782/170, 6-18=-1259/282, 7-18=-319/2119, 7-17=-1281/301, 8-17=-333/1785, 9-17=-547/198, 9-15=-28/383

NOTES

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=42ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 3-2-5, Interior (1) 3-2-5 to 25-5-8, Exterior (2) 25-5-8 to 29-7-13, Interior (1) 29-7-13 to 42-11-0 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) All plates are MT20 plates unless otherwise indicated.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 241 lb uplift at joint 2 and 241 lb uplift at joint 13.

6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Piper-Roof
Q-2100416-1	T1GE	Roof Special Supported Gable	1	1	Job Reference (optional)

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

installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

16-35, 15-36, 14-37, 17-33, 18-32

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

except end verticals.

1 Row at midpt

Installation guide.



41-11-0

BRACING

TOP CHORD

BOT CHORD

WEBS

Scale = 1:72.4

Plate Offsets (X, Y): [25:Edge,0-3-8]

		-											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	26	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 289 lb	FT = 20%	

LUMBER

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 2x4 SP No.3 WEBS

- OTHERS 2x4 SP No.3 REACTIONS All bearings 41-11-0.
 - (lb) Max Horiz 2=221 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 28, 29, 30, 31, 32, 33, 36, 37, 38, 39, 40, 41, 42, 44, 45, 46, 47, 2 except 27=-101 (LC 11) Max Grav All reactions 250 (lb) or less at joint(s) 26, 27, 28, 29, 30, 31, 32, 33, 36, 37, 38, 39, 40, 41, 42, 44, 45, 46, 2 except 35=264 (LC 11), 47=264 (LC 20)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 15-16=-225/275, 16-17=-225/275

NOTES

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

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=42ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 2) and C-C Corner (3) -1-0-0 to 3-5-8, Exterior (2) 3-5-8 to 25-5-8, Corner (3) 25-5-8 to 29-5-8, Exterior (2) 29-5-8 to 41-9-4 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

All plates are 2x4 MT20 unless otherwise indicated. 4)

Gable requires continuous bottom chord bearing. 5)

Gable studs spaced at 2-0-0 oc. 6)

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and 7) any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 36, 37, 38, 39, 40, 41, 42, 44, 45, 46, 47, 33, 32, 31, 30, 29, 28, 2 except (jt=lb) 27=101.

This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 9)



3) All plates are 3x4 MT20 unless otherwise indicated.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 2 and 197 lb uplift at joint 12.

6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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 3x4 MT20 unless otherwise indicated.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 2 and 162 lb uplift at joint 12.

6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss		Truss Type		Qty	Ply	Pipe	er-Roof				
Q-2100416-1	T2GE		Common Supporte	d Gable	1	1	Job	Referer	ice (opt	ional)		
Peak Truss Builders	LLC, New Hill, user			Run: 8.3	1 S Sep 9 2	019 Print: 8.3	310 S Sep	9 2019 N	liTek Ind	ustries,	Inc. Fri Feb 12	10:31:09 Page:
	-1-0-0		16 5 8			ID:CPPYoR11	3q?E336rG	iFVVZr_sz	:mw7p-7	11XπDH	Iq2KyIcksDDh0e	3ezh9_owRve1StxqxziwP
	1-0-0		16-5-8		Ť					16-5-8		
41-11-11 41-11-11 5-2-11 5-2-11-11 5-2-11-11 5-2-11-11 5-2-11-11 5-2-11-11 5-2-11-11 5-2-11-11 5-2-11-11 5-2-11-11 5-2-11-11 5-2-11-11 5-2-11-11 5-2-11-11 5-2-11-11 5-2-11-11 5-2-11 5-	1 3x5 II	3x4 = 5			4x5= 11 S 8 8 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9		13 ST6 ⊠	SIS B	4			17 3x4 x 18 19 19 19 19 19 19 19 19 19 19
Plate Offsets (X.	Y): [21:Edge.0-3-8	1			<u> </u>	~						ſ
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/TPI2014	CSI TC BC WB Matrix-MR	0.11 0.05 0.16	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a 0.01	(loc) - - 21	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 247	GRIP 244/190 Ib FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS REACTIONS AI (Ib) - M M	2x4 SP No.1 2x4 SP No.1 2x4 SP No.3 2x4 SP No.3 Il bearings 32-11-0. ax Horiz 39=220 (ax Uplift All uplift 28, 31, 3 ax Grav All reactin 27 28 3	LC 10) 100 (Ib) or less at joir 2, 33, 34, 35, 36, 38, ons 250 (Ib) or less a 1, 32, 33, 34, 35, 36	t(s) 21, 22, 23, 24, 25, 39 t joint(s) 21, 22, 23, 24, 38. 39 excent 30=272	26, 27, , 25, 26, (LC 11)	BRACING TOP CHO BOT CHO WEBS	3 DRD DRD	Structur except Rigid ce 1 Row a MiTek r installe Installa	ral wooc end vert siling dir at midpt recomm d during tion gui	I sheath icals. ectly ap ends th g truss o de.	ning dir oplied o at Stal erectio	rectly applied of or 10-0-0 oc bi <u>11-30, 10-3</u> bilizers and re- n, in accordan	or 6-0-0 oc purlins, racing. 1, 9-32, 12-28, 13-27 quired cross bracing be ce with Stabilizer
FORCES TOP CHORD NOTES 1) Unbalanced 2) Wind: ASCI and C-C Cd left and righ 3) Truss desig qualified bu	(lb) - Max. Con 10-11=-243/28 d roof live loads ha E 7-10; Vult=120m prner (3) -1-0-0 to the exposed;C-C for gned for wind loads illding designer as	ve been considered f oh (3-second gust) V -5-8, Exterior (2) 2-5 members and forces is in the plane of the t per ANSI/TPI 1.	or this design. asd=95mph; TCDL=6.0 -8 to 16-5-8, Corner (3 & MWFRS for reaction russ only. For studs ex	Dpsf; BCDL=6.0p) 16-5-8 to 19-9- ns shown; Lumbo posed to wind (r	n. osf; h=30ft; 0, Exterior er DOL=1.6 normal to th	B=20ft; L=3 (2) 19-9-0 1 30 plate grip le face), se	33ft; eave o 32-9-4 o DOL=1. e Standa	=2ft; Ca zone; ca 60 rd Indus	it. II; Ex antileve try Gab	p B; E r left a le End	nclosed; MWF nd right expos I Details as ap	RS (directional) ed ; end vertical plicable, or consult

All plates are 2x4 MT20 unless otherwise indicated. 4) 5)

Gable requires continuous bottom chord bearing. Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). 6) 7)

Gable study spaced at 2-0-0 oc. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and 8) any other members.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 39, 21, 31, 32, 33, 34, 35, 36, 38, 28, 27, 26, 25, 24, 23, 22.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type		Qty	Ply	Piper-Roof			
Q-2100416-1	ТЗ	Common		2	1	Job Refere	nce (option	al)	
Peak Truss Builders LLC, New H	Hill, user	•	Run: 8.31 S	Sep 9 2019	Print: 8.310	S Sep 9 2019	MiTek Indust	ies, Inc. Fri Feb 12 ftDHa2KylcksDDh	2 10:31:09 Page: 1
	-1-0-0 1-0-0	<u>5-7-8</u> 5-7-8	<u>10-11-8</u> 5-4-0	-	<u>16-3-8</u> 5-4-0		<u>21</u> 5	-11-0 -7-8	22-11-p 1-0-0
10.4.2	с - 2 	12 10 – 2x4n 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	22 3 11 25 3x4=	4x5॥ 5	26	B 2x44 6 9 10 x4=	, 	225-5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	8 9 71
Scale = 1:53		7-4-13 7-4-13	1	<u>14-6-3</u> 7-1-5			<u>21-11-0</u> 7-4-13	·····,	ł
Plate Offsets (X, Y): [2:0-4- Loading TCLL (roof) TCDL BCLL BCDL	Spacing (psf) Spacing 20.0 Plate Grip DOL 10.0 Lumber DOL 0.0* Rep Stress Inc 10.0 Code	2-0-0 1.15 1.15 r YES IRC2015/TPI2014	CSI TC BC WB Matrix-MS	0.25 Ver 0.38 Ver 0.26 Ho	FL t(LL) - t(CT) - rz(CT)	in (loc) 0.13 10-11 0.17 10-11 0.02 8	l/defl L >999 2 >999 1 n/a r	/d PLATES 40 MT20 30 /a Weight: 13	GRIP 244/190 6 lb FT = 20%
LUMBER TOP CHORD 2x4 SP N. BOT CHORD 2x4 SP N. WEBS 2x4 SP N. SLIDER Left 2x6 S REACTIONS (Ib/size) 2	o.1 o.3 3P No.2 2-6-0, Right 2) 2=937/0-3-8, (min. 0-1-8)	(6 SP No.2 2-6-0 8=937/0-3-8, (min. 0-1-8)	BF TC BC	RACING P CHORD DT CHORD) S [°] R Ir Ir	tructural woc igid ceiling d fiTek recomr istalled durir istallation gu	nd sheathing irectly appli- nends that ag truss ere- nide.	directly applied ad or 10-0-0 oc Stabilizers and r stion, in accorda	d or 6-0-0 oc purlins. bracing. required cross bracing be ance with Stabilizer
Max Hoft2 2 Max Uplift 2 Max Uplift 2 FORCES (Ib) - M TOP CHORD 2-3=-4 6-24=- BOT CHORD 2-12=- WEBS 5-10=- NOTES 1) Unbalanced roof live M 2) Wind: ASCE 7-10; Vul and C-C Exterior (2) - vertical left and right e 3) * This truss has been any other members, W		LC 11) II forces 250 (lb) or less exc .21=-980/174, 4-22=-946/26 7, 7-8=-450/0 .25=0/566, 25-26=0/566, 10 5-11=-128/504, 4-11=-291/ red for this design. st) Vasd=95mph; TCDL=6.0 9, 2-0-0 to 10-11-8, Exterior s and forces & MWFRS for of 20.0psf on the bottom cho	ept when shown. 6, 5-22=-854/289, 5 -26=0/566, 8-10=0/7 212 psf; BCDL=6.0psf; h (2) 10-11-8 to 13-11- reactions shown; Lu ord in all areas where	-23=-854/2 739 =30ft; B=2 8, Interior mber DOL e a rectang	289, 6-23=- 20ft; L=22ft (1) 13-11-8 =1.60 plate gle 3-06-00	946/266, ; eave=4ft; C to 22-11-0 z g grip DOL=1 tall by 2-00-	at. II; Exp E one; cantile .60 00 wide will	; Enclosed; MW ver left and righ fit between the	VFRS (directional) it exposed ; end bottom chord and

Job	Truss	Truss Type	Qty	Ply	Piper-Roof
Q-2100416-1	T3GE	Common Supported Gable	1	1	lob Reference (ontional)
Peak Truss Builders LLC, New F	l Hill, user	Run: 8.31 S	5 Sep 9 2019	Print: 8.310	S Sep 9 2019 MiTek Industries, Inc. Fri Feb 12 10:31:09 Page: 1
	Land		IC):f0HoNm?xI	INzLpoit76xNvRzmw7r-71fXftDHq2KyIcksDDh0e3eyC9_fWRVe1StxqxzlwP0
	1-0-0	<u>10-11-8</u> 10-11-8	1		<u>21-11-0</u> 10-11-8 1-0-0
			4×5=		
	_		8		
10.4.2	аларана ал			9 5 5 5	10 11 11 12 13 14 15 3x7 II
Scale = 1:52 Plate Offsets (X, Y): [16:0-2	-2 0-0-41. [29:0-4-8.0-1-8]		21-11-0		
	(psf) Spacing	2.0.0 CSI	DE		
TCLL (roof)	20.0 Plate Grip DOL	1.15 TC	0.14 Ver	rt(LL)	n/a - n/a 999 MT20 244/190
BCLL	0.0* Rep Stress Incr	YES WB	0.16 Ho	rz(CT)	0.00 16 n/a n/a
BCDL	10.0 Code	IRC2015/TPI2014 Matrix-MR		-	Weight: 160 lb F I = 20%
LUMBER TOP CHORD 2x4 SP N BOT CHORD 2x4 SP N WEBS 2x4 SP N OTHERS 2x4 SP N REACTIONS All bearings (lb) - Max Horiz 2 Max Uplift A	o.1 o.1 o.3 o.3 21-11-0. !9=207 (LC 10) III uplift 100 (lb) or less at join	E T N N 16, 18, 19, 20, 21, 23, 24,	BRACING TOP CHORD BOT CHORD WEBS) S e;) R 1 iir II	tructural wood sheathing directly applied or 6-0-0 oc purlins, xcept end verticals. ligid ceiling directly applied or 10-0-0 oc bracing. Row at midpt 8-22 MiTek recommends that Stabilizers and required cross bracing be nstalled during truss erection, in accordance with Stabilizer nstallation guide.
2	b, 27 except 17=-123 (LC 11)), 28=-123 (LC 11), 29=-120 (LC			
Max Grav A 2	All reactions 250 (lb) or less a 23, 24, 26, 27, 28, 29 except	at joint(s) 16, 17, 18, 19, 20, 21, 22=270 (LC 11)			
FORCES (lb) - N	lax. Comp./Max. Ten All fo	rces 250 (lb) or less except when shown.			
 Unbalanced roof live I Wind: ASCE 7-10; Vul and C-C Corner (3) -1 vertical left and right e Truss designed for wi qualified building desi All plates are 2x4 MT2 Gable requires contint Truss to be fully sheat This truss has been any other members. Provide mechanical co 28=122, 17=122. This truss to designed to 	oads have been considered tt=120mph (3-second gust) V -0-0 to 2-0-0, Exterior (2) 2-(exposed;C-C for members ar ind loads in the plane of the t gner as per ANSI/TPI 1. 20 unless otherwise indicated uous bottom chord bearing. thed from one face or secure t 2-0-0 oc. designed for a live load of 20 connection (by others) of trust	for this design. (asd=95mph; TCDL=6.0psf; BCDL=6.0psf;)-0 to 10-11-8, Corner (3) 10-11-8 to 13-11- (d forces & MWFRS for reactions shown; L truss only. For studs exposed to wind (nor d.).0psf on the bottom chord in all areas whe is to bearing plate capable of withstanding of international Residential Code sections F	: h=30ft; B=2 -8, Exterior (.umber DOL mal to the fa agonal web) ere a rectang 100 lb uplift :	20ft; L=22ft (2) 13-11-8 =1.60 plate (ace), see S () gle 3-06-00 at joint(s) 1	;; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) to 22-11-0 zone; cantilever left and right exposed ; end e grip DOL=1.60 trandard Industry Gable End Details as applicable, or consult 0 tall by 2-00-00 wide will fit between the bottom chord and 16, 23, 24, 26, 27, 21, 20, 19, 18 except (jt=lb) 29=120,

Job	Truss		Truss Type		Qty	Ply	Piper-Roof			
Q-2100416-1	T3GRD		Common Girder		1	2	Job Refere	nce (optional)		
Peak Truss Builders LLC, New	Hill, user			Run: 8.31 S S	Sep 9 2019 F	Print: 8.310 S	Sep 9 2019	MiTek Industries	, Inc. Fri Feb 12 10	31:09 Page: 1
			5 1 2	10 11 9	ID:P		EWULIOJCOJI	21 / 21	Hq2KylcksDDh0e3	ex79s_WLYe1StxqxzIWP0
			5-5-13	5-5-11	1	5-5-11	Í	5-5	-13	
9-11-8	8-11-8	3x12∎	12 10 5 3x5¢ 2 2 4 4 5 17 9 18		4x5= 3 WG 7 21		3x5.	4 32 <u>11</u> 24	3x12# HW1 25	
		5x5= JUS2	2x411 26 JUS26 JUS2	4x6= 26 JUS26 JUS2	3x8= 6 JUS2	26 JUS2	2x4 26 JUS26	JUS26	5x5= JUS26	
Scale = 1:51.8			5-5-13	<u>5-5-11</u>	1	5-5-11	ł	<u>21-1</u> 5-5	-13	
Plate Offsets (X, Y): [1:Ed	ge,0-1-11], [1:0-3	-6,0-6-1], [5:E	Edge,0-1-11], [5:0-3-6	0-6-1]					1	
Loading TCLL (roof) TCDL BCLL BCDL	(psf) Spacing 20.0 Plate 0 10.0 Lumber 0.0* Rep S 10.0 Code	ng Grip DOL er DOL tress Incr	2-0-0 1.15 1.15 NO IRC2015/TPI2014	CSI TC BC WB Matrix-MS	0.21 Ver 0.55 Ver 0.54 Hor	F L t(LL) -(t(CT) -(z(CT) (in (loc) 0.07 7-9 0.10 7-9 0.02 5	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 Weight: 300 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD 2x4 SP I BOT CHORD 2x6 SP I WEBS 2x4 SP I WEDGE Left: 2x1 Right: 2x REACTIONS (Ib/size) Max Horiz	No.1 Jo.2 Jo.3 O SP No.2 10 SP No.2 1=2749/0-3-8, (m 1=173 (LC 30)	iin. 0-2-2), 5=	=2785/0-3-8, (min. 0-2	BR TO BO	ACING P CHORD T CHORD	St Ri	ructural woo gid ceiling di	d sheathing di rectly applied	rectly applied or or 6-0-0 oc braci	6-0-0 oc purlins. ng.
Max Uplift	1=-249 (LC 24), 5	5=-265 (LC 2	3) 250 (lb) at leas at	reenturben ebeurn						
TOP CHORD 1-2=-1	3353/364, 2-3=-2	396/273, 3-4	=-2396/273, 4-5=-335	9/366		10				
вот CHORD 1-16= 7-20=	-255/2511, 16-17 -255/2511, 7-21=	=-255/2511, -257/2517, 2	9-17=-255/2511, 9-18 1-22=-257/2517, 22-2	=-255/2511, 18-19=-2 3=-257/2517, 6-23=-2	55/2511, 8- 57/2517, 6	-19=-255/2 -24=-257/2	511, 8-20=-2 2517,	:55/2511,		
24-25 WEBS 3-7=	=-257/2517, 5-25 429/2608, 4-7=-1	5=-257/2517 043/192, 4-6	=-310/1022, 2-7=-103	5/191, 2-9=-307/1014						
NOTES		, -								
 2-ply truss to be cont Top chords connecte 	nected together w d as follows: 2x4	/ith 10d (0.13 - 1 row at 0-9	9-0 oc.	s:						
Bottom chords conne Web connected as for	ected as follows: 2 llows: 2x4 - 1 rov	2x6 - 2 rows : v at 0-9-0 oc.	staggered at 0-9-0 oc							
 All loads are considered distribute only loads 	red equally applie noted as (F) or (E	ed to all plies 3). unless oth	, except if noted as fro erwise indicated.	ont (F) or back (B) face	e in the LO	AD CASE(S) section. P	ly to ply conne	ections have bee	n provided to
3) Unbalanced roof live	loads have been	considered f	or this design.	Onef: BCDI =6 Onef: h	-30ft· B-2	∩ft· I =22ft·	eave=4ft- C	at II: Evn B: E	nclosed: MWER	S (directional):
cantilever left and rig	ht exposed ; end	vertical left a	ind right exposed; Lur	nber DOL=1.60 plate g	grip DOL=1	1.60		0		
any other members.	i designed for a li	ve load of 20	Upsi on the bottom c	nord in all areas where	e a rectang	ie 3-06-00	tall by 2-00-0	JU WIDE WIII TIT	between the bot	tom chord and
 Provide mechanical (This truss is designe Use USP JUS26 (Wi T1 (1 phy 2x4 SP) to 	connection (by other d in accordance w th 4-10d nails into back face of bett	hers) of truss with the 2015 o Girder & 4-	to bearing plate capa International Resider 10d nails into Truss) o	ble of withstanding 24 tial Code sections R50 r equivalent spaced at	9 lb uplift a 02.11.1 and 2-0-0 oc r	at joint 1 an d R802.10. nax. startin	d 265 lb upli 2 and refere g at 2-0-12 f	ft at joint 5. nced standard rom the left er	ANSI/TPI 1. Ind to 20-0-12 to o	connect truss(es)
9) Fill all nail holes whe	re hanger is in co	ontact with lur	mber.							
LOAD CASE(S) Stand 1) Dead + Roof Live (b Uniform Loads (lb/ft	tard palanced): Lumbe)	er Increase=1	.15, Plate Increase=1	.15						
Vert: 1 Concentrated Loads	-3=-60, 3-5=-60, s (lb)	10-13=-20								
Vert: 1	6=-378, 17=-378	, 18=-378, 19	9=-378, 20=-378, 21=-	378, 22=-378, 23=-37	8, 24=-378	, 25=-378				

I	Job	Truss	Truss Type	Qty	Ply	Piper-Roof
	Q-2100416-1	V1	Valley	1	1	Job Reference (optional)
Peak Truss Builders LLC, New Hill, user			Run: 8.31 S	6ep 92019	Print: 8.310 \$	S Sep 9 2019 MiTek Industries, Inc. Fri Feb 12 10:31:10 Page: 1
				ID:f0HoN	lm?xINzLpoi	t76xNvRzmw7r-bEDvtCEvbLSpwlJ2mwDFAGB9XZKMFwSoG6dUNNzlwP?
			6-1-10			11-11-3 12 ¹ 3-5
1			6-1-10	1		5-9-8 0/4 2

0-4-2



Scale = 1:36			<u>}</u>		12-	3-5							
Loading TCLL (roof) TCDL BCLL	(psf) 20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.04 0.03 0.05	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 60 lb	FT = 20%	

LUMBER

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 2x4 SP No.3 OTHERS

REACTIONS All bearings 12-3-5.

(lb) - Max Horiz 1=94 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 8, 9, 11, 12

Max Grav All reactions 250 (lb) or less at joint(s) 1, 7, 8, 9, 10, 11, 12

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

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

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-0-5 to 3-0-5, Exterior (2) 3-0-5 to 6-1-15, Corner (3) 6-1-15 to 9-1-15, Exterior (2) 9-1-15 to 12-3-10 zone; cantilever left and right exposed ; end vertical 2) left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult 3) qualified building designer as per ANSI/TPI 1.

All plates are 2x4 MT20 unless otherwise indicated. 4)

Gable requires continuous bottom chord bearing. 5)

Gable studs spaced at 2-0-0 oc. 6)

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and 7) any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 12, 9, 8.

This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 9)

LOAD CASE(S) Standard BRACING TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing



LUMBER TOP CHORD

TOP CHORD BOT CHORD OTHERS	2x4 SP 2x4 SP 2x4 SP	No.1 No.1 No.3
REACTIONS	(lb/size)	1=42/9-0-14, (min. 0-1-8), 3=46/9-0-14, (min. 0-1-8), 4=638/9-0-14, (min. 0-1-8)
	Max Horiz	1=69 (LC 10)
	Max Uplift	1=-15 (LC 21), 3=-12 (LC 20), 4=-127 (LC 11)
	Max Grav	1=76 (LC 20), 3=79 (LC 21), 4=638 (LC 1)
FORCES	(lb) -	Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.
TOP CHORD	2-10	=-44/261, 2-11=-42/257
WEBS	2-4=-	-476/140

WEBS

NOTES

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

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; cave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 2) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 4-6-12, Exterior (2) 4-6-12 to 7-6-12, Interior (1) 7-6-12 to 9-1-3 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

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 9-1-8 oc purlins.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

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

Installation guide.

Gable requires continuous bottom chord bearing. 3)

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and 4) any other members

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 12 lb uplift at joint 3 and 127 lb uplift at joint 4. 5)

6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Piper-Roof	
Q-2100416-1	V3	Valley	1	1	Job Reference (optional)	
Peak Truss Builders LLC, New Hill, user			ep 92019F	Print: 8.310 S	S Sep 9 2019 MiTek Industries, Inc. Fri Feb 12 10:31:10	Page: 1

Run: 8.31 S Sep 9 2019 Print: 8.310 S Sep 9 2019 MiTek Industries, Inc. Fri Feb 12 10:31:10 Page: 1 ID:8CrAb60Z3h6CRyH4hpScSfzmw7q-bEDvtCEvbLSpwIJ2mwDFAGB82ZJaFwSoG6dUNNzIwP?





Scale = 1:27.7				<u> </u>		5-10-8						
Loading TCLL (roof) TCDL BCLL	(psf) 20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.07 0.08 0.05	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code	IRC2015/1PI2014	Matrix-MP							Weight: 21 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 2x4 SP No.1 BOT CHORD 2x4 SP No.3 OTHERS **REACTIONS** (lb/size) 1=51/5-10-8, (min. 0-1-8), 3=54/5-10-8, (min. 0-1-8), 4=366/5-10-8, (min. 0-1-8) Max Horiz 1=-43 (LC 9) Max Uplift 4=-64 (LC 11) Max Grav 1=67 (LC 20), 3=69 (LC 21), 4=366 (LC 1)

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

NOTES

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

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 2) and C-C Exterior (2) 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.

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and 4) any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 4. 5)

This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 6)

LOAD CASE(S) Standard

BRACING TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-11-2 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.



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

4) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

6) Gable studs spaced at 4-0-0 oc.

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

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 13, 8 except (jt=lb) 11=149, 9=149.

9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



NOTES

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-0-5 to 3-0-5, Exterior (2) 3-0-5 to 8-1-11, Corner (3) 8-1-11 to 11-1-11, Exterior (2) 11-1-11 to 16-3-2 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) Gable requires continuous bottom chord bearing.

5) Gable studs spaced at 4-0-0 oc.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 8 and 151 lb uplift at joint 6.

8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



0	4.0/	\sim
Scale	= 1.1.30	h u

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 55 lb	FT = 20%	

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
OTHERS	2x4 SP No.3

REACTIONS All bearings 13-0-6.

(lb) - Max Horiz 1=100 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 6=-123 (LC 11),

8=-123 (LC 11)

Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=322 (LC

17), 7=254 (LC 1), 8=325 (LC 16)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-8=-250/168

WEBS

NOTES

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

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; cat. II; Exp B; Enclosed; MWFRS (directional) 2) and C-C Corner (3) 0-0-5 to 3-0-5, Exterior (2) 3-0-5 to 6-6-8, Corner (3) 6-6-8 to 9-6-8, Exterior (2) 9-6-8 to 13-0-11 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

Gable requires continuous bottom chord bearing. 4)

Gable studs spaced at 4-0-0 oc. 5)

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and 6) any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=122, 6=122. 7

This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 8)

LOAD CASE(S) Standard

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



TOP CHORD2x4 SP IBOT CHORD2x4 SP IOTHERS2x4 SP I	No.1 No.1 No.3
REACTIONS (lb/size)	1=35/9-10-0, (min. 0-1-8), 3=35/9-10-0, (min. 0-1-8), 4=716/9-10-0, (min. 0-1-8)
Max Horiz	1=75 (LC 10)
Max Uplift	1=-24 (LC 21), 3=-24 (LC 20), 4=-149 (LC 11)
Max Grav	1=75 (LC 20), 3=75 (LC 21), 4=716 (LC 1)
FORCES (lb) - TOP CHORD 1-2=-	Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. 75/301, 2-3=-75/301

WEBS 2-4=-543/165

VVEDO

NOTES

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-0-5 to 3-0-5, Exterior (2) 3-0-5 to 4-11-5, Corner (3) 4-11-5 to 7-11-5, Exterior (2) 7-11-5 to 9-10-5 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) Gable requires continuous bottom chord bearing.

5) Gable studs spaced at 4-0-0 oc.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1, 24 lb uplift at joint 3 and 149 lb uplift at joint 4.

8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 9-10-10 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.

Job	Truss	Truss Type		Qty	Ply	Piper-Roof
Q-2100416-1	V8	Valley		1	1	Job Reference (optional)
Peak Truss Builders LLC, New H	Hill, user		Run: 8.31 S S	ep 9 2019 I ID:XfS9	Print: 8.310 \$ 5Ne5xO47_	Sep 9 2019 MiTek Industries, Inc. Fri Feb 12 10:31:11 Page: 1 54KeYyZuZzmFiC-3QmH4YFYMfagYvuFKekUjUkJUzfU_MNxVIM2vqzlwP_
			3-3-13		,	6-3-8 6-7+10
		,	3-3-13	1	2-	11-11 0-4-2



Scale = 1:28.7			ł			6-7-10				ł		
Loading (TCLL (roof) 2 TCDL 8 BCLL BCDL 9	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/TPI2014	CSI TC BC WB Matrix-MP	0.09 0.10 0.07	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 25 lb	GRIP 244/190 FT = 20%

LUMBER TOP CHORD

BOT CHORD 2x4 OTHERS 2x4	- SP No.1 - SP No.3
REACTIONS (Ib/siz	e) 1=49/6-7-10, (min. 0-1-8), 3=49/6-7-10, (min. 0-1-8), 4=432/6-7-10, (min. 0-1-8)
Max I	loriz 1=49 (LC 10)
Max l	Iplift 4=-81 (LC 11)
Max (Grav 1=70 (LC 20), 3=70 (LC 21), 4=432 (LC 1)
FORCES	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.
WEBS	2-4=-294/86

NOTES

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

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; cat. II; Exp B; Enclosed; MWFRS (directional) 2) and C-C Corner (3) 0-0-5 to 3-0-5, Exterior (2) 3-0-5 to 3-4-2, Corner (3) 3-4-2 to 6-4-2, Exterior (2) 6-4-2 to 6-7-14 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

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 3) qualified building designer as per ANSI/TPI 1.

Gable requires continuous bottom chord bearing. 4)

2x4 SP No.1

Gable studs spaced at 4-0-0 oc. 5)

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and 6) any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 4. 7)

This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 8)

LOAD CASE(S) Standard BRACING TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-8-3 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.

Job	Truss	Truss Type	Qty	Ply	Piper-Roof
Q-2100416-1	V9	Valley	1	1	Job Reference (optional)

Run: 8.31 S Sep 9 2019 Print: 8.310 S Sep 9 2019 MiTek Industries, Inc. Fri Feb 12 10:31:11 Page: 1 ID:XfS95Ne5xO47_54KeYyZuZzmFiC-3QmH4YFYMfagYvuFKekUjUkKzzgG_NTxVIM2vqzlwP_

3	1	1

	3-1-1	
1-8-10		3-5-3
1-8-10	1	0-4-2
	1-4-8	



Scale = 1:25.4

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

	[======================================											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 10 lb	FT = 20%

LUMBER

TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1

REACTIONS (lb/size) 1=137/3-5-3, (min. 0-1-8), 3=137/3-5-3, (min. 0-1-8) Max Horiz 1=24 (LC 10)

Max Uplift 1=-17 (LC 11), 3=-17 (LC 11)

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

NOTES

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

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 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

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

4) Gable requires continuous bottom chord bearing.

5) Gable studs spaced at 4-0-0 oc.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 1 and 17 lb uplift at joint 3.

8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING TOP CHORD BOT CHORD

3-5-3

Structural wood sheathing directly applied or 3-5-13 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.