

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 09/06/2022 4:08:26

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

Re: B220118 Lot 141 HM

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Wheeler - Waverly.

Pages or sheets covered by this seal: I53666688 thru I53666741

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193



August 16,2022

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	Lot 141 HM	
B220118	A1	Roof Special Structural Gable	1	1	Job Reference (optional)	153666688

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:07 ID:Xtdqziw8xaL?ze8vt59JIFynciz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

29-2-8 -0-10-8 0-10-8 14-6-12 +<u>28-4-0</u> +<u>1-10-12</u> 7-2-4 14-2-0 20-6-0 26-5-4 7-2-4 6-11-12 0-4-12 5-11-4 5-11-4 0-10-8 4x5= ¹⁰ 11 仚 12 6 9 12 8 13 4x5 🞜 4x5 👟 7 14 6 7-10-3 7-10-0 5 Ø 4 37 3 15 36 2 220 16 22 0-6-0 17 ÷ 21 Þ 32 23 19 18] \boxtimes 4x9 =**25** 24 31 30 28 27 29 26 5x7 II 5x7 🛛 4x9= 4x5 🛛 3x10=

	7-2-4	12-10-4	14-8-0	20-6-0	26-4-0	28-4-0
	7-2-4	5-8-0	1-9-12	5-10-0	5-10-0	2-0-0
Scale = 1:59						

Plate Offsets (X, Y): [20:0-3-12,0-0-11]

													1		-
Loading		(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)		25.0	Plate Grip DOL	1.15		тс	0.83	Vert(LL)	-0.14	20-21	>999	360	MT20	197/144	
TCDL		10.0	Lumber DOL	1.15		BC	0.38	Vert(CT)	-0.26	20-21	>701	240			
BCLL		0.0*	Rep Stress Incr	YES		WB	0.31	Horz(CT)	0.13	18	n/a	n/a			
BCDL		10.0	Code	IRC2018	3/TPI2014	Matrix-S		Wind(LL)	0.09	20-21	>999	240	Weight: 138 lb	FT = 10%	
LUMBER TOP CHORD	2x4 SPF	No.2		тс	P CHORD	1-2=0/32, 2-3=-28/4 1-5=0/431, 5-6=0/47	72, 3-4 1, 6-7=	=0/441, 13/1128,		7) Th ch	is truss h ord live lo	as bee	en designed for a nconcurrent with	10.0 psf bottom any other live loads.	
	2100F 1.8	NO.2 EXCE 3E, 22-20,1	9-18:2x4 SPF No.2	005		10-11=0/969, 11-12=	=-4/994 546/	4, 12-13=-20/9 302	969,	or or	the botto	mas b m cho	ord in all areas wh	ere a rectangle	
WEBS	2x3 SPF No.2, 32-	No.2 ^Exce 2:2x4 SPF	pt^ 24-10,18-16:2x4 2100F 1.8E	SPF		15-16=-184/16, 16-1 2-32=-38/206	302, 2, 16-18=-278	/22,	chord and any 2-00-00 while will in between the bottom chord and any other members.						
OTHERS	2x4 SPF	No.2		BC		2-32-30/200 9) Provide mechanica								ng 243 lb unlift at	
BRACING TOP CHORD	Structura	I wood she	athing directly applie	d or		29-30=-371/107, 28- 27-28=-371/107, 28-	29=-37	71/107, 71/107, 71/107		joi Ib	nt 32, 14 uplift at id	lb upli int 24	ft at joint 18, 579	lb uplift at joint 28, 95 int 25, 26 lb uplift at	
BOT CHORD	6-0-0 oc Rigid ceil bracing,	ing directly Except:	applied or 6-0-0 oc			25-26=-371/107, 24- 23-24=-45/0, 22-23= 21-22=-157/98, 20-2	18, /41.	joint 26, 45 lb uplift at joint 27, 43 lb uplift at joint 29, 2 lb uplift at joint 30 and 36 lb uplift at joint 31.							
	10-0-0 oc	bracing: 1	9-20,18-19.		-	15-20=0/117, 18-19	/00, 10 20 0	, ,	In	ernationa	I Resi	dential Code sect	ions R502.11.1 and		
WEBS JOINTS	1 Row at 1 Brace a	1 Row at midpt 10-24 WEB 1 Brace at Jt(s): 34,				6-28=-51/588, 6-35= 33-34=-806/75, 24-3	6, 34-35=-809 3/79,	9/75,	R8 LOAD	302.10.2 a	and rei	ferenced standard	J ANSI/TPI 1.		
REACTIONS	(size) Max Horiz	18=0-3-8, 26=13-0-0 29=13-0-0 32=13-0-0 32=82 (L0	24=13-0-0, 25=13-0 0, 27=13-0-0, 28=13- 0, 30=13-0-0, 31=13- 0 2 7)	-0, D-0, D-0,		10-24=-1083/0, 22-3 36-37=-771/90, 14-3 9-33=-155/41, 25-33 26-34=-154/53, 7-35 5-29=-61/84, 4-30=- 12-36=-70/12, 13-37	6=-806 7=-784 5=-128/ 5=-60/8 149/48 7=-1/26	6/96, 4/90, 14-21=0 40, 8-34=-149 8, 27-35=-66/ , 3-31=-209/5 , 22-24=-957/	/306, 9/53, 74, 5, /220						
	Max Uplift	18=-14 (L 25=-259 (27=-45 (L 29=-43 (L	C 9), 24=-95 (LC 9), LC 22), 26=-26 (LC 8 C 22), 28=-579 (LC 2 C 22), 30=-22 (LC 8	s), NC 22), 1)	DTES Unbalanced this design. Wind: ASCE	d roof live loads have been considered for							E OF	MISSO	
	Max Grav	31=-36 (L 18=294 (L 25=38 (LC 27=97 (LC 29=98 (LC	C 8), 32=-243 (LC 22 .C 1), 24=2436 (LC 1 C 21), 26=213 (LC 1) C 21), 28=56 (LC 9), C 21), 30=180 (LC 21),),	Vasd=91mpl II; Exp B; En cantilever lef right exposed	ph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. Enclosed; MWFRS (envelope) exterior zone; left and right exposed ; end vertical left and sed; Lumber DOL=1.60 plate grip DOL=1.60							STATISCO:	IT M. VIER	
FORCES	(lb) - Max Tension	31=321 (L imum Com	.C 1), 32=33 (LC 21) pression/Maximum	3)	only. For stu see Standard or consult qu All plates are	ned for wind loads in ids exposed to wind d Industry Gable En- alified building design 2x4 MT20 unless of	n the pl (norm d Detai gner as	ane of the tru al to the face) ls as applicat per ANSI/TP se indicated	ss , ble, Pl 1.			A start	PE-200	TBER 1018807	7

- 5)
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 2-0-0 oc.



Page: 1

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	A2	Roof Special	1	1	Job Reference (optional)	153666689

Loading

TCDL

BCLL

BCDL

WEBS

WEBS

WEBS

NOTES

1)

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Mon Aug 15 13:48:09 ID:?3BCB2xmiuTsboj5RogYqSynciy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	A3	Roof Special	2	1	Job Reference (optional)	153666690

Loading

TCDL

BCLL

BCDL

WEBS

WEBS

WEBS

NOTES

1)

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Mon Aug 15 13:48:10 ID:TFIaONxPTBbjCyIH_VBnNgyncix-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



August 16,2022



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	A4	Roof Special Girder	1	2	Job Reference (optional)	153666691

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:10 ID:7ZT7vU5wet60eoCbh1PbsCyncil-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:44.4

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

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.66	Vert(LL)	-0.10	5-6	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.41	Vert(CT)	-0.17	5-6	>894	240			
BCLL	0.0*	Rep Stress Incr	NO		WB	0.70	Horz(CT)	0.08	4	n/a	n/a			
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S		Wind(LL)	0.04	4-5	>999	240	Weight: 164 lb	FT = 10%	
			4)	Provide adec	uate drainage to	prevent v	vater pondin	a.						
TOP CHORD	2x4 SPF No.2		5)	This truss ha	s been designed	for a 10.0) psf bottom	.9.						
BOT CHORD	2x8 SP DSS		,	chord live loa	d nonconcurrent	with any	other live loa	ads.						
WEBS	2x4 SPF No.2		6)	* This truss h	as been designed	d for a liv	e load of 20.	.0psf						
BRACING				on the botton	n chord in all area	s where	a rectangle							
TOP CHORD	Structural wood shea	athing directly applie	ed or	3-06-00 tall b	y 2-00-00 wide w	ill fit betw	een the bott	tom						
	6-0-0 oc purlins, exe	cept end verticals, a	nd 7)	Rearing at io	int(s) 7 considers	narallel t	o arain value	<u>م</u>						
	2-0-0 oc purlins (4-1	0-1 max.): 1-2.	- ''	using ANSI/T	PI 1 angle to grai	in formula	a. Building	0						
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 of	C	designer sho	uld verify capacity	of beari	ng surface.							
WEBS	1 Row at midot	2-4	8)	This truss is	designed in accor	dance w	th the 2018							
REACTIONS	(size) 4=0-3-8 7	 7=0-3-8		International	Residential Code	sections	R502.11.1 a	and						
	Max Horiz 7=181 (LC	C 5)	•	R802.10.2 ar	nd referenced star	ndard AN	ISI/TPI 1.							
	Max Grav 4=3412 (L	_C 15), 7=3944 (LC	16) ⁹⁾	Graphical pu	rlin representation	n does no	top and/or	size						
FORCES	(lb) - Maximum Com	pression/Maximum		bottom chord		along the	top anu/or							
	Tension		10) Hanger(s) or	other connection	device(s) shall be							
TOP CHORD	6-7=-3944/0, 1-6=-22	289/0, 1-2=-5863/0,		provided suff	icient to support of	concentra	ited load(s) 1	1646						
	2-3=-188/56, 3-4=-2	20/58		lb down at 2	-0-12, 1646 lb dov	wn at 4-0)-12, 770 lb	down						
BOICHORD	5-6=-108/375, 4-5=0	0/5990		and 35 lb up	at 6-0-12, 770 lb	down an	d 35 lb up a	t						
WEBS	1-5=0/5948, 2-5=0/1	677, 2-4=-6253/0		8-0-12, and 7	70 lb down and 3	35 lb up a	t 10-0-12, a	ind						
NOTES	4			The design/s	and 34 lb up at 1	2-0-12 0	n device(s) i	s the						
 2-piy truss (0.131"v3" 	to be connected toget	ther with 10d		responsibility	of others.	onneedo		5 110				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	and a	
Top chord	s connected as follows:		•0 LC	AD CASE(S)	Standard							OF	MIG	
0C.			1)	Dead + Roo	of Live (balanced)	: Lumber	Increase=1.	.15,				ALEOT	MISS	N
Bottom ch	ords connected as follo	ows: 2x8 - 2 rows	,	Plate Increa	ise=1.15						1	9 AN	10	N
staggered	at 0-6-0 oc.			Uniform Loa	ads (lb/ft)						B	SCO1	Т М. 🔨	N-
Web conn	ected as follows: 2x4 -	1 row at 0-9-0 oc.		Vert: 1-2:	=-70, 2-3=-70, 4-6	6=-20					A	/ SEV	TER \	N N
 All loads a avaant if n 	re considered equally	applied to all plies,		Concentrate	ed Loads (lb)	-					100	★/		* 1
CASE(S)	section Ply to ply con	ections have been	JAD	Vert: 5=-	/04 (F), 8=-1485	(ト), 9=-14 (F)	485 (⊦), 10=	-704			i <mark>k</mark>	Att	X≥	NA.
provided to	o distribute only loads	noted as (F) or (B).		(F), 11=-	704 (F), 12=-706	(Г)					A)	JOLINUM	BERCON	2ar
unless oth	erwise indicated.										N	PE-200	1018807	HA
Wind: ASC	CE 7-16; Vult=115mph	(3-second gust)									Y	A MAL		H
Vasd=91m	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; (Cat.									A Ser	- OF	4
II; Exp B; I	nclosed; MWFRS (en	ivelope) exterior zor	ne; d									NON/	AL EL	<i>C</i>
right expo	sed: Lumber DOI =1 6	0 plate grip DOI =1 6	60									Vac	and	
		gp										August	16,2022	
												0		



Job	Truss	Truss Type		Ply	Lot 141 HM	
B220118	B1	Common Structural Gable	1	1	Job Reference (optional)	153666692

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:11 ID:xSJycjy1DVjaq6tUYDi0vtynciw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:36.7

Plate Offsets (X, Y): [12:0-5-5,0-2-0], [20:0-5-5,0-2-0]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-R	0.48 0.65 0.09	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.16 -0.22 0.02 0.09	(loc) 17-18 17-18 12 18	l/defl >999 >813 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 61 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x6 SPF No.2 *Exc 2x4 SPF No.2 Structural wood sh 5-5-0 oc purlins, e Rigid ceiling directl bracing. (size) 12=0-3-{ Max Horiz 20=54 (I Max Horiz 12=0-54)	ept* 16-6:2x4 SPF No eathing directly applie coept end verticals. y applied or 10-0-0 oc 5, 20=0-3-8 C 7)	4) 5) 0.2 6) 7) ed or 8) c 9)	All plates are Truss to be f braced again Gable studs This truss ha chord live loa * This truss f on the bottor 3-06-00 tall b chord and ar Provide mec bearing plate 20 and 19 lb	2x4 MT20 unless ully sheathed from ist lateral moveme spaced at 2-0-0 or is been designed f ad nonconcurrent is has been designed in chord in all area by 2-00-00 wide wi yo other members. hanical connection e capable of withst uplift at joint 12.	o otherwi n one fac ent (i.e. d c. for a 10.0 with any d for a liv s where s where ill fit betw n (by oth anding 1	se indicated. e or securely iagonal web)) psf bottom other live loa e load of 20.0 a rectangle veen the botto ers) of truss t 9 lb uplift at j	ds. Dpsf om oint					
FORCES TOP CHORD	Max Upritt 12=-19 (Max Grav 12=762 (lb) - Maximum Cor Tension 1-2=0/35, 2-3=-855 4-5=-767/30, 5-6=- 7-8=-767/30, 8-9=- 10-11=0/35, 2-20=-	LC 9), 2U=-19 (LC 8) LC 1), 20=762 (LC 1) npression/Maximum /0, 3-4=-804/11, 752/52, 6-7=-752/52, 304/11, 9-10=-859/0, 641/10, 10-12=-641/ ²) 10) LC) This truss is International R802.10.2 ar AD CASE(S)	designed in accorr Residential Code nd referenced star Standard	dance w sections ndard AN	ith the 2018 R502.11.1 a ISI/TPI 1.	nd					
BOT CHORD	19-20=0/679, 18-19 16-17=0/679, 15-11 13-14=0/679, 12-11 6-16=-6/369, 5-17= 3-19=-15/46, 7-15= 9-13=-15/46	9=0/679, 17-18=0/679 5=0/679, 14-15=0/679 5=0/679 -93/43, 4-18=-57/35, -93/43, 8-14=-57/35,	9, 9,								ļ	TATE OF	MISSOLU
 Unbalance this design Wind: ASC 	ed roof live loads hav n. CE 7-16; Vult=115mp	e been considered for h (3-second gust)	r									SCOI	TER

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

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	B2	Roof Special	2	1	Job Reference (optional)	153666693





	2-0-0	7-10-0	13-8-0	15-8-0
Ţ	2-0-0	5-10-0	5-10-0	2-0-0
Scale = 1:42				

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

Loadi	ng	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	(roof)	25.0	Plate Grip DOL	1.15		тс	0.49	Vert(LL)	-0.20	11-12	>913	360	MT20	197/144	
TCDL		10.0	Lumber DOL	1.15		BC	0.81	Vert(CT)	-0.38	11-12	>486	240	M18SHS	197/144	
BCLL		0.0*	Rep Stress Incr	YES		WB	0.14	Horz(CT)	0.37	8	n/a	n/a			
BCDL		10.0	Code	IRC2018	3/TPI2014	Matrix-R		Wind(LL)	0.13	11-12	>999	240	Weight: 47 lb	FT = 10%	
													-		
LUMB	ER		_	6)	Provide mech	nanical connection	(by oth	ers) of truss t	0						
TOP C	HORD	2x4 SPF 2400F 2.0E			bearing plate	capable of withsta	anding 1	8 ib uplift at j	oint						
BOLC	HORD	2x4 SPF No.2 *Exce	pt* 13-12,10-9:2x3 \$	SPF 7)	This trues is	upilit at joint 8.		ith the 2019							
		NO.2, 3-5:2X4 SPF 2		• • • • • • • • • • • • • • • • • • • •	International	Residential Code	sactions	P502 11 1 a	nd						
VVEB3	, 	ZX4 SPF NO.2 EXCE	pt 11-4:2x3 SPF N	0.2	R802 10 2 ar	d referenced stan	dard AN	ISI/TPI 1	inu						
BRAC	ING	o , , , , , , ,				Stondard		101/1111							
IOPC	HORD	Structural wood shea	athing directly applie	ed or LC	DAD CASE(S)	Stanuaru									
	חמטחי	Bigid coiling directly	applied or 10.0.0 or	~											
BOIL	INORD	bracing Excent	applied of 10-0-0 of												
		10-0-0 oc bracing: 1	0-11												
	PIONS	(lb/size) 8-763/0-3	2.8 1/-763/0-3-8												
NLA0	TIONS	(ID/3126) 0=703/0-3 Max Horiz 14-53 (I.C	> 7)												
		Max Liplift 8=-18 (LC	$(9) 14 = -18 (1 \times 8)$												
	FS	(lb) - Max Comp (M	av Ten - All forces	250											
	20	(lb) or less except w	hen shown	200											
TOP (HORD	2-3=-523/26 3-4=-1	129/0 4-5=-1129/18	3											
	mone	5-6=-523/35, 2-14=-7	796/38.6-8=-796/30))											
вот с	HORD	3-12=0/726. 11-12=0	0/957.10-11=0/957.												
		5-10=0/726	,												
WEBS	5	4-11=0/430													
NOTE	s														
1) Ur	nbalance	ed roof live loads have	been considered for	r										ADD	
, thi	is desigi	n.											POF	MIG.	
2) W	ind: AS	CE 7-16; Vult=115mph	(3-second gust)										BIE	Juss V	N
Va	asd=91n	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; 0	Cat.								6	9.51	NO.	0
II;	Exp B;	Enclosed; MWFRS (en	velope) exterior zor	ie;								B	SCO	ГТ М. 🔨	N A
ca	intilever	left and right exposed	; end vertical left an	d								R	SEV	/IER \	N.
rig	ht expo	sed; Lumber DOL=1.60	0 plate grip DOL=1.0	50								82	*1		★ 1⁄3
3) All 4) ⊤⊾	i plates	are will 20 plates unless	s otherwise indicate	u.								V	1 ++		2-1-
4) (ľ	ins truss	load popooncurrent wit	a 10.0 psi bottom	de								X	DO MAIN	AM	en la
5) * 1	This true	s has been designed for	or a live load of 20 0	us. Inef								T W	DE 200	1010007	IN IN
<i>u j</i>	1113 11 113	o nao been deoigneu n	or a rive load of 20.0	'poi								17	CON PE-200	101880/ 12	> 1

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

WARNING - 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



RSSIONAL

E

August 16,2022

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	C1	Piggyback Base Supported Gable	1	1	Job Reference (optional)	153666694

Loading

TCDL

BCLL

BCDL

WEBS

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Mon Aug 15 13:48:11 ID:bl1V7q5ZPBEtGynnFkwqPPyncik-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



OTHERS BRACING 34=180 (LC 21), 35=180 (LC 1), Structural wood sheathing directly applied or TOP CHORD 36=180 (LC 21), 37=194 (LC 16), 6-0-0 oc purlins, except end verticals, and 38=355 (LC 15), 39=419 (LC 5) 2-0-0 oc purlins (6-0-0 max.): 9-15. FORCES (Ib) - Maximum Compression/Maximum BOT CHORD Rigid ceiling directly applied or 10-0-0 oc Tension bracing. TOP CHORD 1-39=-219/118, 1-2=-195/107, 2-3=-106/69, WEBS 1 Row at midpt 18-23, 17-24, 16-25, 3-4=-109/86, 4-5=-96/94, 5-6=-86/104, 14-26, 13-27, 12-28, 6-7=-76/112, 7-8=-71/125, 8-9=-66/136, 11-29, 10-31, 8-32, 7-33 9-10=-58/133, 10-11=-58/133, 6-34 11-12=-58/133, 12-13=-58/133, REACTIONS (size) 21=33-8-14, 22=33-8-14, 13-14=-58/133, 14-15=-58/133, 23=33-8-14, 24=33-8-14, 15-16=-66/139, 16-17=-67/134, 25=33-8-14, 26=33-8-14, 17-18=-61/115, 18-19=-62/93, 19-20=-62/97, 27=33-8-14, 28=33-8-14, 20-21=-57/78 29=33-8-14, 31=33-8-14, BOT CHORD 38-39=-90/65, 37-38=-90/65, 36-37=-90/65, 32=33-8-14, 33=33-8-14, 35-36=-90/65, 34-35=-90/65, 33-34=-90/65, 34=33-8-14, 35=33-8-14, 32-33=-90/65, 31-32=-90/65, 29-31=-90/65, 36=33-8-14, 37=33-8-14, 28-29=-90/65, 27-28=-90/65, 26-27=-90/65, 38=33-8-14, 39=33-8-14 25-26=-90/65, 24-25=-90/65, 23-24=-90/65, Max Horiz 39=224 (LC 5) 22-23=-90/65, 21-22=-90/65 Max Uplift 21=-100 (LC 5), 22=-78 (LC 4), WEBS 19-22=-146/46, 18-23=-140/48, 23=-33 (LC 9), 24=-27 (LC 9), 17-24=-140/53, 16-25=-139/27, 25=-3 (LC 9), 27=-16 (LC 4), 28=-9 14-26=-141/14, 13-27=-144/40, (LC 5), 29=-18 (LC 4), 33=-30 (LC 12-28=-140/33, 11-29=-144/42, 8), 34=-23 (LC 8), 35=-22 (LC 8), 10-31=-141/20, 8-32=-139/22, 7-33=-140/54, 36=-33 (LC 8), 37=-18 (LC 4), 6-34=-140/47, 5-35=-140/47, 4-36=-140/51, 38=-426 (LC 5), 39=-230 (LC 6) 3-37=-142/32, 2-38=-200/215

NOTES

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



see Standard Industry Gable End Details as applicable.

or consult qualified building designer as per ANSI/TPI 1.

Provide adequate drainage to prevent water ponding.

All plates are 2x4 MT20 unless otherwise indicated.

Truss to be fully sheathed from one face or securely

braced against lateral movement (i.e. diagonal web).

This truss has been designed for a 10.0 psf bottom

on the bottom chord in all areas where a rectangle

chord live load nonconcurrent with any other live loads.

* This truss has been designed for a live load of 20.0psf

Gable requires continuous bottom chord bearing.

Gable studs spaced at 2-0-0 oc.

All plates are MT20 plates unless otherwise indicated.

4)

5)

6)

7)

8)

9)

10)

11)

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	C1	Piggyback Base Supported Gable	1	1	Job Reference (optional)	153666694

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint 39, 100 lb uplift at joint 21, 78 lb uplift at joint 22, 33 lb uplift at joint 23, 27 lb uplift at joint 24, 3 lb uplift at joint 25, 16 lb uplift at joint 27, 9 lb uplift at joint 28, 18 lb uplift at joint 29, 30 lb uplift at joint 33, 23 lb uplift at joint 26, 00 lb uplift at joint 27, 9 lb uplift at joint 28, 18 lb uplift at joint 26, 00 lb u 34, 22 lb uplift at joint 35, 33 lb uplift at joint 36, 18 lb uplift at joint 37 and 426 lb uplift at joint 38.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:11 ID:bl1V7q5ZPBEtGynnFkwqPPyncik-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	C2	Piggyback Base	2	1	Job Reference (optional)	153666695

TCDL

BCLL

BCDL

WEBS

WEBS

WEBS

1)

2)

3)

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Mon Aug 15 13:48:12 ID:AAMMUo3g6GsIPU3CacN7nnyncin-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	C3	Piggyback Base	4	1	Job Reference (optional)	153666696

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:12 ID:fNwki84Ita_91eeP8JuMJ_yncim-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Plate Offsets (X, Y): [1:0-3-0,0-1-8], [3:0-4-8,0-2-4], [5:0-3-8,0-1-12], [11:0-6-4,0-2-0]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.77 0.80 0.95	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.30 -0.44 -0.01 -0.02	(loc) 12-14 12-14 9 9-10	l/defl >714 >481 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 187 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 14-3,12-3,11-4,9-8,15-1:2x4 SPF No.2 BRACING TOP CHORD Structural wood sheathing directly applied or 5-1-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 1 Row at midpt 6-11 WEBS 1 Row at midpt 3-12, 4-12, 5-11 REACTIONS (size) 9= Mechanical, 12=0-3-8, 15= Mechanical Max Horiz 15=217 (LC 7) Max Grav 9=661 (LC 22), 12=1897 (LC 2), 15=-743 (LC 8) Max Grav 9=661 (LC 23) FORCES (lb) - Maximum Compression/Maximum				 Wind: ASCE Vasd=91mph II; Exp B; Enn- cantilever lef right exposed Provide aded This truss ha chord live loa * This truss ha on the botton 3-06-00 tall b chord and an Refer to girdd Provide mecl bearing plate 15 and 11 lb This truss is International R802.10.2 ar Graphical pu 	7-16; Vult=115mp n; TCDL=6.0psf; B closed; MWFRS (it and right expose d; Lumber DOL=1. quate drainage to p s been designed fad nonconcurrent as been designed n chord in all area by 2-00-00 wide wi y other members, er(s) for truss to tri hanical connection e capable of withst uplift at joint 9. designed in accorr Residential Code nd referenced star rlin representation	ch (3-sec CDL=6.	cond gust) Dpsf; $h=25ft;$ exterior zo vertical left ar grip DOL=1 water pondin D psf bottom other live load e load of 20. a rectangle veen the bott DL = 10.0ps nections. ers) of truss Classifier and the source of the source a fs02.11.1 at a fs102.11.1 at bt depict the source of the source of the source a fs102.11.1 at the source of the source of the source a fs102.11.1 at the source of the source of the source a fs102.11.1 at the source of the source o	Cat. ne; nd .60 g. ads. Opsf om f. to joint and size					
FORCES	(lb) - Maximum Com Tension	pression/Maximum		or the orienta bottom chord	ation of the purlin a I.	along the	e top and/or						
	4-5=-270/101, 5-6=-3 7-8=-97/73, 8-9=-83/	23,181, 3-4=-10/184, 351/113, 6-7=-387/91 /39, 1-15=-656/61	, L	OAD CASE(S)	Standard							A STATE	ADD
BOT CHORD	14-15=-188/156, 12- 11-12=-122/75, 10-1 9-10=0/71	14=-110/91, 1=0/165, 6-11=-292/1	104,								E	STATE OF	MISSOLATIN
WEBS	1-14=0/504, 2-14=-6 3-12=-767/91, 4-12= 5-11=-100/71, 9-11= 7-9=-587/84	01/208, 3-14=-121/87 -768/53, 4-11=-22/49 -79/149, 7-11=-1/141	76, 08, ,									SEV	Service
NOTES											~ N .	NUM	IBER / S

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

> MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

PE-200101880

August 16,2022

E

SSIONAL

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	C4	Piggyback Base	1	1	Job Reference (optional)	153666697

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:12 ID:xjrOAX9hDjtAMjgl2HW?6Syncif-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

	7-9-10		15-4-0 7-6-6)-10-12 -6-12	24-8-0 4-9-4	4	9-4-0 3 -8-0	<u>3-10-4</u> 4-6-4		41-2-0 7-3-12	42-10-8
10-5-0 10-5-0 10-5-0 10-5-0	5x7 =	6 ¹² 2	*	5x7= 3			5x7= 5	3x10,5 6 7				6x6 2 9 10 77 11
		18 2	20	17 16 3x10:	15 ²¹ ■	22	14 5x12=		M	⊠ VIT18HS	3x8 ш 6x12=	
	7-9-10 7-9-10		15-2-12 7-5-2	18-0- 2-10	-0	24-9-4 6-8-8		34-0-0 9-2-12			41-2-0 7-2-0	
Scale = 1:74.2 Plate Offsets ()	X, Y): [1:Edge,0-1-12], [3:0-4-8,0-2-4], [5:0-	-3-8,0-1-1	2], [9:0-3-0,0-1	-12], [11:Ed	ge,0-3-8]						
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	/TPI2014	CSI TC BC WB Matrix-S	0.77 0.54 0.66	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.16 13-14 -0.33 13-14 0.01 15 0.02 17-18	l/defl >999 >576 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT18HS Weight: 203 lb	GRIP 197/144 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce 15-3,14-4,11-9,19-1: Structural wood shea 5-6-6 oc purlins, exc 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt (size) 13=0-3-8, Max Horiz 19=-143 (Max Uplift 13=-85 (L Max Grav 13=1594 (19=748 (L (lb) - Maximum Com Tension	2x4 SPF No.2 athing directly applied cept end verticals, and -0 max.): 3-5. applied or 4-7-1 oc 2-17, 3-15, 4-15, 5-14 12-14, 7-12, 9-12 15=0-3-8, 19=0-5-8 LC 6) C 9), 19=-18 (LC 8) (LC 22), 15=1726 (LC LC 23) appression/Maximum	2) i or d 5) 6) 7) 4, 8) ; 2), 9) 10)	Wind: ASCE Vasd=91mph II; Exp B; Enc cantilever left right exposed Provide adeq All plates are All plates are This truss has chord live loas this truss has on the bottom 3-06-00 tall by chord and any Provide mech bearing plate 19 and 85 lb u This truss is of International F R802.10.2 an Graphical pur	7-16; Vult=1 , TCDL=6.0p losed; MWF and right ex ; Lumber DC uate drainag MT20 plates 4x5 MT20 u been desig d nonconcur s been d s b s been d s b s been d s b s b s b s b s b s b s b s b s b s b	15mph (3-sec ssf; BCDL=6.0 RS (envelope posed ; end v DL=1.60 plate e to prevent v s unless other nless otherwis ined for a 10.0 rrent with any igned for a liw areas where de will fit betw bers, with BC ection (by oth vithstanding 1 13. accordance wi Code sections d standard AN tation does no	ond gust) psf; h=25ft;) exterior zo ertical left ar grip DOL=1 vater pondin wise indicate se indicated. psf bottom other live load e load of 20. a rectangle reen the bott DL = 10.0ps ers) of truss 8 lb uplift at th the 2018 R502.11.1 a SI/TPI 1. t depict the :	Cat. ne; nd .60 g. gd. ads. Opsf om f. to joint and size				
TOP CHORD BOT CHORD WEBS	1-2=-718/48, 2-3=-2: 4-5=-76/111, 5-7=-1: 8-9=-67/859, 9-10=0 1-19=-651/57 18-19=-75/163, 17-1 15-17=-29/149, 14-1 12-13=-1511/135, 8- 11-12=-32/195 1-18=0/517, 2-18=0/	22/105, 3-4=0/271, 44/101, 7-8=0/823, 0/58, 9-11=-6/140, 8=-35/578, 5=-136/128, 13-14=0 -12=-430/144, /289, 2-17=-679/113	LO //51,	or the orientar bottom chord. AD CASE(S)	Standard	urlin along the	top and/or				STATE OF SCOT	MISSOLATING
NOTES 1) Unbalance this design	3-17=-10/610, 3-15= 4-14=0/387, 5-14=-2 12-14=-141/79, 7-12 9-12=-858/142 d roof live loads have	203, 2-17 =-019/113, 944/50, 4-15=-642/4 99/20, 7-14=0/296, 2=-1087/28, been considered for	8,							A A A	PE-2001	16.2022



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	C5	Piggyback Base	2	1	Job Reference (optional)	153666698

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:13 ID:QvPmNtAJ_1?1_tFxc?1Eegyncie-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

	7-9-10		<u>15-4-0</u> 7-6-6	19-7-4	24-8-0		32-3-12 7-7-12	33-10-4 1-6-8	41-2-0	42-10-8
				5x7=	4x5=	5x7=				
0-2-01 	5x7 = 1 4x5 II	6 ¹² 4x5 s 2 2 20 3x10=	22	3 8 9 19 3x10=	4 8 18 7 x12=	5 8 16 4x9=		5x7= 0= 7 8x8= 8 7 8x8= 8 7 8x8= 13 8 14 14 2x4 II	5x12=	6x6 9 10 10 10 11 4x5 II
				:	2x4 II		,	MT18HS	3x8 II	
	7-9-10		5-2-12	19-8-8	24-9-4	F	32-2-8	34-0-0	41-2-0	
Scale = 1:74.2	7-9-10	·	7-5-2	4-5-12	5-0-12	•	7-5-4	1-9-8	7-2-0	
Plate Offsets (>	(, Y): [1:0-3-0,0-1-8],	[3:0-5-0,0-2-8], [5:0-4	-8,0-2-4], [9:0-3	-0,0-1-12], [11:Edg	ge,0-3-8], [20:0-2	2-8,0-1-8]				
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI20	CSI TC BC WB 114 Matrix-S	0.79 0.85 0.58	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.14 19-20 -0.24 19-20 0.06 13 0.04 19-20	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES MT20 MT18HS Weight: 198 lb	GRIP 197/144 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD 1 Row at midpt WEBS REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS NOTES	2x4 SPF No.2 2x4 SPF No.2 *Exce No.2, 14-13:2x4 SPF 2x3 SPF No.2 *Exce SPF No.2 Structural wood shea 2-2-0 oc purlins, exc 2-0-0 c purlins, exc 2-2-0 c purlins, exc 2-2-1750/32, 2-3 4-5=-958/49, 5-7=-10 1-21=-1397/46 20-21=-74/169, 19-2 18-19=-1/307, 15-16 12-13=-2423/31, 8-1 11-12=-34/192 1-20=0/1481, 2-20=- 3-19=-41/194, 17-19 4-16=-707/48, 5-16= 12-15=-639/145, 8-1 9-12=-854/145	Pt* 18-4,7-14:2x3 SP 2100F 1.8E pt* 16-4,11-9,21-1:2x athing directly applied cept end verticals, and -7 max.): 3-5. applied or 3-6-9 oc 2-19, 3-19, 4-16, 5-16 9-12 21=0-5-8 LC 6) C 9), 21=-7 (LC 8) (LC 2), 21=1515 (LC 2) pression/Maximum 1477/67, 3-4=-1295/5 180/42, 7-8=-127/241 1/58, 9-11=-6/139, 20=-22/1489, -0/61, 4-17=-8/385, 6=-167/121, -1555/41, 13-14=-92/ 2=-2130/42, -266/90, 2-19=-383/11 =-0/1250, 3-17=-43/27 -79/263, 7-16=0/1248 5=0/1699,	 a Unbase a Unbase a Unbase b Wind cantil cight i cight i	ACCE 7-16; Vulte esign. (ASCE 7-16; Vulte =91mph; TCDL=6, p B; Enclosed; MV ever left and right exposed; Lumber de adequate drain ates are MT20 plat russ has been det live load noncond is truss has been det bottom chord in 1 00 tall by 2-00-00 and any other me de mechanical cor ng plate capable o d 17 lb uplift at joi russ is designed in tational Residentia 10.2 and reference orientation of the m chord. ASE(S) Standard	adds nave been c =115mph (3-sec Opsf; BCDL=6.0 VFRS (envelope exposed ; end v DOL=1.60 plate age to prevent v tes unless other signed for a 10.0 eurrent with any esigned for a live all areas where a wide will fit betw embers, with BC nection (by other f withstanding 7 nt 13. n accordance wi I Code sections eed standard AN entation does no purlin along the	onsidered for ond gust) psf; h=25ft; C) exterior zon- ertical left and grip DOL=1.6 rater ponding wise indicated psf bottom other live load ther live load ben the botto DL = 10.0psf. een the botto DL = 10.0psf. srs) of truss tc Ib uplift at join th the 2018 R502.11.1 ar SI/TPI 1. t depict the si top and/or	sat. e; i i0 fs. psf m o nt ad ze		STATE OF SCOT SEV PE-2001	MISSOLUT T M. IER 018807



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	C6	Piggyback Base	1	1	Job Reference (optional)	153666699

Run: 8,43 S Jan 6 2022 Print: 8,430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:13 ID:QvPmNtAJ_1?1_tFxc?1Eegyncie-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



International Residential Code sections R502.11.1 and

Graphical purlin representation does not depict the size

R802 10 2 and referenced standard ANSI/TPI 1

or the orientation of the purlin along the top and/or

NOTES

WEBS

FORCES

TOP CHORD

BOT CHORD

Tension

1-18=-1407/47

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

Max Grav 13=2488 (LC 2), 18=1531 (LC 2)

1-2=-1764/34, 2-3=-1521/64, 3-4=-1257/88,

14-16=0/1143, 13-14=0/57, 12-13=-2358/64,

1-17=0/1491, 2-17=-276/84, 2-16=-348/124,

3-16=0/333, 4-16=-33/327, 4-14=-608/72, 5-14=0/270, 7-14=0/804, 12-14=0/487, 7-12=-2062/0, 9-12=-858/142

(lb) - Maximum Compression/Maximum

4-5=-884/55, 5-7=-1054/53, 7-8=0/827,

8-9=-67/860, 9-10=0/58, 9-11=-6/140,

17-18=-74/172, 16-17=-23/1502,

8-12=-431/144, 11-12=-32/194

OF MISS SCOTT M. SEVIER NUMBER PE-200101880' C FRSSIONAL August 16,2022

Page: 1



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall a duss system: plantieter and property incorporate dust using in the overlain of the optimization opt

9)

bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	C7	Piggyback Base	2	1	Job Reference (optional)	153666700

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:13 ID:u5y8bDByIL7uc1q79iYTBtyncid-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



	8-9=-67/860, 9-10=0/58, 9-11=-6/141,
	1-19=-1378/46
BOT CHORD	18-19=-74/169, 17-18=-22/1466,
	16-17=0/1192, 15-16=0/122, 4-16=-445/113,
	14-15=0/129, 13-14=0/31, 12-13=-2313/63,
	8-12=-434/145, 11-12=-32/194
WEBS	1-18=0/1457, 2-18=-266/90, 2-17=-392/117,
	3-17=-1/498, 3-16=-169/175, 14-16=0/659,
	5-16=-36/707, 5-14=-619/82, 7-14=0/755,
	12-14=0/444, 7-12=-1944/0, 9-12=-857/141
-	

NOTES

 Unbalanced roof live loads have been considered for this design.



Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	C8	Piggyback Base	1	1	Job Reference (optional)	153666701

Scale = 1:82.5

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:14 ID:L9EJUu1KouO364JBtqDF9_ynbRU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

August 16,2022

MiTek° 16023 Swingley Ridge Rd Chesterfield, MO 63017



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

Loading	(nef)	Spacing	2-0-0		CSI		DEEL	in	(loc)	l/defl	l /d		GRIP
TCLL (roof)	(poi) 25.0	Plate Grip DOI	1 15		тс	0 78	Vert(LL)	-0 11	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.63	Vert(CT)	-0.20	13-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.68	Horz(CT)	0.08	16	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S		Wind(LL)	0.03	13-14	>999	240	Weight: 170 lb	FT = 10%
LUMBER TOP CHOR	D 2x4 SPF No.2		3) 4)	Provide adeo All plates are	juate drainage to p 4x5 MT20 unless	orevent v otherwi	water pondin se indicated.	g.					
BOT CHOR WEBS	BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 12-3,15-1,16-7:2x4 SPF No.2 BRACING TOP CHORD Structural wood sheathing directly applied or 3-7-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-6.				 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 								
BRACING TOP CHOR					n chord in all areas y 2-00-00 wide wil y other members, int(s) 16 considers	s where Il fit betv with BC parallel	a rectangle /een the bott DL = 10.0ps to grain valu	om f. Je					
BOT CHOR	D Rigid ceiling directly bracing. Except:	applied or 10-0-0 oc	;	designer sho	uld verify capacity	of beari	ng surface.						
1 Row at mi	dpt 4-12, 5-9		8)	Provide meci	nanical connection	i (by oth	ers) of truss	tO					
WEBS	1 Row at midpt	2-13, 3-12, 7-16, 6-8	8, 4-9	15 and 41 lb	uplift at joint 16	anuing s	ib upint at ju	mit					
FORCES	Max Horiz 15=0-5-0, Max Horiz 15=301 (L Max Uplift 15=-9 (LC Max Grav 15=1216	LC 7) 2 8), 16=-41 (LC 5) (LC 2), 16=1203 (LC DEFENSION (Maximum	9) ; 2) 10)	This truss is International R802.10.2 ar Graphical pu	designed in accord Residential Code and referenced stan rlin representation	dance w sections idard AN does no	ith the 2018 R502.11.1 a ISI/TPI 1. ot depict the s	and size					
FUNCES	Tension	pression/maximum		or the orienta	ition of the purlin a	along the	top and/or						
TOP CHOR	D 1-2=-1347/35, 2-3=- 4-5=-261/50, 5-6=-2 1-15=-1100/48, 8-16	974/72, 3-4=-682/83 52/49, 6-7=-95/67, 5=-1203/41, 7-8=-79/	[,] LO /48	AD CASE(S)	Standard								
BOT CHOR	D 14-15=-269/150, 13- 12-13=-111/765, 11- 10-11=0/100, 9-10=0 8-9=-122/190	-14=-134/1138, -12=0/132, 4-12=-40 0/137, 5-9=-336/118	/309, ,									TE OF	MISSOL
WEBS	2-14=-162/153, 2-13 3-12=-420/53, 10-12 6-9=-86/1031, 1-14= 4-9=-699/53	8=-490/116, 3-13=-1/ 2=-63/0, 9-12=-125/6 =0/1107, 6-8=-1105/§	543, 75, 91,									SCOT SEV	T M. TER
NOTES											X	alt a	Server)
 Unbalanced roof live loads have been considered for this design. 										-	X	PE-2001	BER 018807
2) Wind: A Vasd=9 II; Exp E cantilev	SCE 7-16; Vult=115mph 1mph; TCDL=6.0psf; BC ;; Enclosed; MWFRS (er er left and right exposed	(3-second gust) DL=6.0psf; h=25ft; C velope) exterior zon	Cat. e;								Y	SSIONA	IL ENGINE

II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	C9	Piggyback Base	1	1	Job Reference (optional)	153666702

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:14 ID:mtCfQbESpZdJ5e7vOYdPLjynciZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:76.7 Plate Offsets (X, Y): [1:Edge,0-1-12], [3:0-5-0,0-2-8], [5:0-4-8,0-2-4]

			1											
Loadi	ng	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	(roof)	25.0	Plate Grip DOL	1.15		тс	0.78	Vert(LL)	-0.17	7-8	>999	360	MT20	197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.63	Vert(CT)	-0.35	7-8	>881	240		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.65	Horz(CT)	0.02	7	n/a	n/a		
BCDL		10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	-0.05	7-8	>999	240	Weight: 159 lb	FT = 10%
				0	-									
	BER			4)	I his truss ha	s been designed f	for a 10.0) pst bottom	do					
	HORD	2x4 SPF No.2		E)	* This trues b		with any		aus. Onof					
BOLC	HORD	2x4 SPF No.2	- 19	5)	on the better	as been designed	a lor a liv	e load of 20.	opsi					
VVEBS	>	2X3 SPF N0.2 EXCE	PL		3-06-00 tall b	v 2-00-00 wide wi	ill fit hetw	een the bott	om					
		9-0,9-0,7-0,7-0,72-1.	274 011 110.2		chord and an	v other members.	with BC	DL = 10.0 ps	f.					
		Structurel wood abo	othing directly opplie	(6)	Provide mech	nanical connection	n (by othe	ers) of truss	to					
IUP			cent end verticals a	nd	bearing plate	capable of withsta	anding 1	0 lb uplift at j	joint					
		2-0-0 oc purlins (5-8	-9 max): 3-5	nu	12 and 41 lb	uplift at joint 7.	-		-					
BOT		Rigid ceiling directly	applied or 10-0-0 or	, 7)	This truss is	designed in accord	dance wi	th the 2018						
0010		bracing. Except:		, ,	International	Residential Code	sections	R502.11.1 a	and					
1 Row	at midp	ot 4-9			R802.10.2 ar	nd referenced star	ndard AN	SI/TPI 1.						
WEBS	S	1 Row at midpt	2-10, 3-9, 6-7, 5-7	8)	Graphical pu	rlin representation	does no	t depict the	size					
REAC	TIONS	(size) 7=0-3-8.1	2=0-5-8		or the orienta	tion of the purlin a	along the	top and/or						
		Max Horiz 12=298 (L	.C 7)		bottom chord	· • · · ·								
		Max Uplift 7=-41 (LC	5), 12=-10 (LC 8)	LC	DAD CASE(S)	Standard								
		Max Grav 7=1203 (L	C 2), 12=1216 (LC 2	2)										
FORC	ES	(lb) - Maximum Com Tension	pression/Maximum											
TOP (CHORD	1-2=-1347/36, 2-3=-9	974/72, 3-4=-685/84	,										
		4-5=-689/85, 5-6=-18	86/120, 6-7=-186/10	94,										
		1-12=-1099/49												
BOLC	CHORD	11-12=-268/150, 10-	-11 = -132/1136,	4									2000	ann
		9-10=-109/700, 8-9=	0/174, 4-9=-447/11	Ι,									P OF	MISC
	2	1 11_0/1105 2 11_	160/154 2 10- 401	/116									ASE	
VVEDC	5	3-10-0/547 3-9-41	1/49 7-9-189/48	/110,								4	1.51 000	New Y
		5-9=-58/991 5-7=-1	142/227									a	S/ SCOI	IM. YAY
	e	0 0- 00/001, 0 1- 1	112,221										SEV	TER / N
1) 1	. . nhalance	ed roof live loads have	heen considered for	r								200		
., 51 th	is desig	n.											ANT	XENMON
2) W	ind: AS	CE 7-16; Vult=115mph	(3-second gust)									×	NUM	IBER / A
Ý Va	asd=91n	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; C	Cat.								N	% PE-2001	1018807
II; Exp B; Enclosed; MWFRS (envelope) exterior zone;				e;								Y	172	124
cantilever left and right exposed ; end vertical left and				d									NºSe-	C'A
rig	ght expo	sed; Lumber DOL=1.60	0 plate grip DOL=1.6	60									ONA	LETA
2) D	covido or	doquato drainago to pre	ovent water ponding										VI - II	- ~

3) Provide adequate drainage to prevent water ponding.

Cone August 16,2022



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	C10	Piggyback Base	1	1	Job Reference (optional)	153666703

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:15

Wheeler Lumber, Waverly, KS - 66871,



Plate Offsets (X, Y):	[4:0-2-8,Edge]	[6:0-5-0,0-2-8]	, [8:0-3-8,0-1-12],	[9:0-2-4,0-1-8],	[10:Edge,0-2-0],	[16:0-3-4
	1		,		· · · · · · · · · · · · · · · · · · ·	

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.34	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.55	11-12	>685	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	14-15	>999	240	Weight: 182 lb	FT = 10%
LUMBER TOP CHORD	2x4 SPF No.2		2) Wind: ASC Vasd=91m	E 7-16; Vult=115 oh; TCDL=6.0ps	5mph (3-seo	cond gust) Opsf; h=25ft;	Cat.					

TOP CHORD BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Except* 12-6,12-7,11-7,11-8,11-9:2x4 SPF No.2, 10-9:2x4 SPF 2100F 1.8E, 16-2:2x6 SPF No.2	3) 4)	Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding. All plates are 4x5 MT20 unless otherwise indicated.
BRACING TOP CHORD BOT CHORD WEBS	Structural wood sheathing directly applied or 3-1-10 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-14 max.): 6-8. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 12-14. 1 Row at midpt 3-14, 5-12, 7-11, 9-10,	5) 6) 7)	This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 16 and 26 lb uplift at joint 10.
REACTIONS	(size) 10=0-3-8, 16=0-3-8 Max Horiz 16=320 (LC 5) Max Uplift 10=-26 (LC 5), 16=-39 (LC 8) Max Grav 10=1560 (LC 2), 16=1568 (LC 2)	8) 9)	This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. Graphical purlin representation does not depict the size or the origination of the purling along the top and/or
FORCES	(lb) - Maximum Compression/Maximum Tension	10	bottom chord.
TOP CHORD	1-2=0/35, 2-3=-2456/51, 3-5=-1909/75, 5-6=-1247/89, 6-7=-1021/109, 7-8=-222/72, 8-9=-304/106, 9-10=-1798/0, 2-16=-1449/78	LU	
BOT CHORD	15-16=-275/714, 14-15=-126/2110, 12-14=-80/1631, 11-12=-91/657, 10-11=-104/81		
WEBS	3-15=0/223, 3-14=-558/92, 5-14=0/531, 5-12=-905/141, 6-12=0/252, 7-12=-40/921, 7-11=-1237/74, 8-11=-129/170, 2-15=0/1445, 9-11=0/1676		
NOTES			

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

OF MISSO TE SCOTT M. SEVIER NUMBER MORTSSIONAL 11 PE-200101880 P August 16,2022

Page: 1

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	C11	Piggyback Base	2	1	Job Reference (optional)	153666704

Scale = 1:78.4

WEBS

NOTES

this design.

Piggyback base Z I Job Reference (optional) Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:15 ID:bl1V7q5ZPBEtGynnFkwqPPyncik-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1 -0-10-8 7-8-12 14-4-4 21-4-0 26-0-0 30-8-0 31-11-8 0-10-8 7-8-12 6-7-8 6-11-12 4-8-0 4-8-0 1-3-8



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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.75	Vert(LL)	-0.31	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.53	11-12	>721	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.33	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	3-15	>999	240	Weight: 207 lb	FT = 10%
LUMBER TOP CHORD	2x4 SPF No.2 *Excer	ot* 1-4:2x8 SP DSS	2) Wind: ASCE Vasd=91mph	7-16; Vult=115 ; TCDL=6.0ps	imph (3-sec f; BCDL=6.0	ond gust))psf; h=25ft; (Cat.					

II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding.

This truss has been designed for a 10.0 psf bottom

on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Provide mechanical connection (by others) of truss to

chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf

BOT CHORD	2x4 SPF No.2 *Except* 16-3:2x3 SPF No.2, 13-10-2x4 SPF 2100F 1 8F
WEBS	2x4 SPF No.2 *Except* 4-15,14-4,12-14:2x3 SPF No.2, 10-9:2x4 SPF 2100F 1.8E
WEDGE	Left: 2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 3-3-7 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-9 max.): 6-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 3-15.
WEBS	1 Row at midpt 4-14, 5-12, 7-11, 8-11, 9-10
REACTIONS	(size) 2=0-3-8, 10=0-3-8 Max Horiz 2=316 (LC 5) Max Uplift 2=-38 (LC 8), 10=-26 (LC 5) Max Grav 2=1542 (LC 2), 10=1538 (LC 2)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/12, 2-3=-966/0, 3-5=-2963/86, 5-6=-1223/89, 6-7=-1002/109, 7-8=-219/72, 8-9=-301/107, 9-10=-1762/0
BOT CHORD	2-16=0/5, 3-16=0/72, 3-15=-164/2787, 14-15=-159/2784, 13-14=0/104, 5-14=0/899,

4-15=0/193, 4-14=-1087/116, 12-14=-86/1713, 5-12=-1190/158, 6-12=0/234, 7-12=-39/898, 7-11=-1213/73,

8-11=-130/169, 9-11=0/1642

1) Unbalanced roof live loads have been considered for

12-13=-9/114, 11-12=-90/645, 10-11=-104/81

2. 4-14, 5-12, 7-11, 8-11, 9-10 3-8, 10=0-3-8 6 (LC 5) 3 (LC 8), 10=-26 (LC 5) 42 (LC 2), 10=1538 (LC 2) Compression/Maximum	 bearing plate capable of withstanding 38 lb uplift at joint 2 and 26 lb uplift at joint 10. 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. I OAD CASE(S) Standard
966/0, 3-5=-2963/86,	LOAD CASE(S) Standard

3)

4)

5)

6)



MITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	C12	Piggyback Base	1	1	Job Reference (optional)	153666705

Scale = 1:80.4

Loading

TCDL

BCLL

BCDL

LUMBER

TCLL (roof)



Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Mon Aug 15 13:48:15 ID:3ybtKA6BAVMku6M_pSR3xcyncij-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



TOP CHORD BOT CHORD	2x4 SPF No.2 *Except* 1-4:2x8 SP DSS 2x4 SPF No.2 *Except* 20-3,5-18,17-15:2x3 SPF No.2
WEBS	2x3 SPF No.2 *Except* 13-6,13-8,11-8,10-9,11-9:2x4 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 3-0-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-13 max.): 6-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 3-19 6-0-0 oc bracing: 17-18
1 Row at midr	o-0-0 00 bracing. 17-10.
WEBS WEBS	1 Row at midpt 4-16, 5-14, 6-13, 8-11 2 Rows at 1/3 pts 9-10
REACTIONS	(size) 2=0-3-8, 10=0-3-8
	Max Horiz 2=316 (LC 5)
	Max Uplift 2=-38 (LC 8), 10=-26 (LC 5)
	Max Grav 2=1588 (LC 2), 10=1536 (LC 2)
FORCES	(Ib) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/12, 2-3=-992/0, 3-5=-3067/85, 5-6=-1355/86, 6-7=-855/87, 7-8=-856/88, 8-9=-256/114, 9-10=-1490/51
BOT CHORD	2-20=0/5, 3-20=0/73, 3-19=-162/2886, 16-19=-157/2881, 16-18=0/75, 5-16=0/777, 17-18=-9/9, 15-17=0/42, 15-16=-84/1938, 14-15=-91/1946, 13-14=-93/1109, 12-13=0/125, 7-13=-389/95, 11-12=0/91, 10-11=-104/81
WEBS	4-19=0/179, 4-16=-1066/113, 5-14=-1126/143, 6-14=-20/1037, 6-13=-810/63, 11-13=-108/84, 8-13=-57/1389, 8-11=-1327/199, 9-11=-9/1403
NOTES	

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding.
- 3) 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 2 and 26 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 7) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size 8) or the orientation of the purlin along the top and/or bottom chord
- LOAD CASE(S) Standard



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	C13	Piggyback Base	3	1	Job Reference (optional)	153666706

TCDL

BCLL

BCDL

WEBS

WEBS

NOTES

this design.

1)



* This truss has been designed for a live load of 20.0psf

on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint

This truss is designed in accordance with the 2018

or the orientation of the purlin along the top and/or

International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. Graphical purlin representation does not depict the size

2 and 26 lb uplift at joint 10.

bottom chord. LOAD CASE(S) Standard

TOP CHORD	Structural wood sheathing directly applied or
	3-0-7 oc purlins, except end verticals, and
	2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
201 0110112	bracing Excent:
	1-4-12 oc bracing: 3-18
	6.0.0 ap broging: 16.17.10.11
	6-0-0 00 blacing. 16-17,10-11.
1 Row at midp	t 7-12
WEBS	1 Row at midpt 4-15, 5-13, 6-12
WEBS	2 Rows at 1/3 pts 9-10
REACTIONS	(size) 2=0-3-8, 10=0-3-8
	Max Horiz 2=316 (LC 7)
	Max Uplift 2=-38 (LC 8), 10=-26 (LC 5)
	Max Grav 2=1596 (LC 2), 10=1565 (LC 2)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/12, 2-3=-997/0, 3-5=-3094/86,
	5-6=-1383/85, 6-7=-495/72, 7-8=-487/72,
	8-9=-535/89, 9-10=-1519/37
BOT CHORD	2-19=0/5, 3-19=0/73, 3-18=-164/2912,
	15-18=-158/2908, 15-17=0/73, 5-15=0/766,
	16-17=-5/16, 14-16=0/45, 14-15=-86/1923,
	13-14=-92/1938. 12-13=-93/1139.
	11-12=-9/82 7-12=-523/123 10-11=-62/10

4-18=0/182, 4-15=-1084/116,

5-13=-1091/148, 6-13=-6/1110,

6-12=-1129/56, 10-12=-100/120,

8-12=-110/375, 9-12=-109/1284 Unbalanced roof live loads have been considered for

5)

6)

7)

8)

OF MISS TE SCOTT M. SEVIER NUMBER PE-2001018807 C HESSIONAL August 16,2022



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	C14	Piggyback Base	1	1	Job Reference (optional)	153666707

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:16 ID:TXH0yB93SQIJIZ5YUa?mZFyncig-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 31-11-8 -0-10-8 30-8-0 5-7-3 10-11-13 16-3-4 21-4-0 28-7-12 2-0-4 1-3-8 5-4-11 5-3-7 5-0-12 7-3-12 0-10-8 5-7-3 5x7 5x7= 4x5 =4x5= 7 8 9 10 Þ 4x5 🚽 6 12 61 4x5 🞜 5 4x5 🎜 4 11-5-3 11-5-0 10-9-4 4x5 🞜 3 8x8= нŧ 0-6-0 19 ' 20 14 16 12 11 Ø 17 4x9= 7x12= 2x4 II 4x5 =5x12= 3x10 II 5x12= <u>31-11</u>-8 16-4-8 28-6-0 8-3-8 21-2-12 -8-1-0 8-3-8 7-3-4 3-5-8 4-10-4

Plate Offsets (X, Y):	[2:Edge,0-2-12],	[5:0-2-8,Edge],	[7:0-5-0,0-2-8],	[10:Edge,0-2-4],	[13:0-9-7,0-2-13]	[16:0-3-8,Edge]
-----------------------	------------------	-----------------	------------------	------------------	-------------------	-----------------

Loading	(nef)	Spacing	2-0-0		C 91		DEEL	in	(loc)	l/defl	I /d		GRIP
TCLL (roof)	(psi) 25.0	Plate Grin DOI	2-0-0			0.82	Vort(LL)	-0.20	16-17	~000	360	MT20	107/1//
	20.0		1.15			0.02		-0.20	16 17	>999	240	101120	137/144
DOLL	10.0		1.15			0.05		-0.30	10-17	>999	240		
BULL	0.0	Rep Stress Incr	YES		VVB	0.74	Horz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code	IRC2018	/1912014	Matrix-S		Wind(LL)	0.07	14-15	>999	240	Weight: 181 lb	FI = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 2x4 SPF No.2 *Exce 2x3 SPF No.2 *Exce No.2, 18-2:2x4 SPF 2 Structural wood shea 3-6-15 oc purlins, ep 2-0-0 oc purlins (4-5 Piorid ceiling directly	pt* 16-6:2x3 SPF No pt* 14-8,11-10:2x4 S 2100F 1.8E athing directly applied xcept end verticals, a -2 max.): 7-9.	2) PF d or 4) ind 5) 6)	Wind: ASCE Vasd=91mph II; Exp B; En cantilever lef right exposed Provide adee The Fabricat This truss ha chord live loa * This truss h	7-16; Vult=115mpl n; TCDL=6.0psf; BC closed; MWFRS (e t and right exposed d; Lumber DOL=1.6 uate drainage to p ion Tolerance at joi s been designed for ad nonconcurrent w has been designed	h (3-sec CDL=6.0 nvelope d; end v 60 plate revent v int 2 = 6 or a 10.0 vith any for a liv	cond gust) Opsf; h=25ft; (a) exterior zor vertical left an grip DOL=1. water ponding 6%, joint 2 = 6 0 psf bottom other live loa e load of 20.0	Cat. ne; d 60 g. 5% ds. Dpsf					
	bracing, Except: 6-0-0 oc bracing: 11-	-12.	,	on the bottor 3-06-00 tall b chord and an	n chord in all areas by 2-00-00 wide will by other members.	where I fit betv with BC	a rectangle veen the botto DL = 10.0psf	om					
1 Row at midp	t 8-13	0 4 4 0 4 0	7)	Provide mec	hanical connection	(by oth	ers) of truss t	0					
WEBS	T Row at midpt	6-14, 3-18	/	bearing plate	capable of withsta	inding 2	6 lb uplift at j	oint					
VVEBS	2 Rows at 1/3 pts	10-11		11 and 38 lb	uplift at joint 18.								
REACTIONS	(size) 11=0-3-8,	18=0-3-8	8)	This truss is	designed in accord	lance w	ith the 2018						
	Max Horiz 18=319 (L	_C 5)	,	International	Residential Code s	sections	R502.11.1 a	nd					
	Max Uplift 11=-26 (L0	C 5), 18=-38 (LC 8)		R802 10 2 au	nd referenced stand	dard AN	ISI/TPI 1						

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.

LOAD CASE(S) Standard



Page: 1

NITEK° 16023 Swingley Ridge Rd Chesterfield, MO 63017

NOTES

WEBS

FORCES

TOP CHORD

BOT CHORD

Tension

2-18=-575/83

Scale = 1:75.9

 Unbalanced roof live loads have been considered for this design.

Max Grav 11=1541 (LC 2), 18=1553 (LC 2)

4-6=-1893/92, 6-7=-1298/93, 7-8=-1099/105,

8-9=-480/72, 9-10=-527/88, 10-11=-1499/37,

15-16=0/141, 6-15=-22/781, 14-15=-96/1636,

(lb) - Maximum Compression/Maximum

1-2=0/32, 2-3=-784/77, 3-4=-2310/70,

17-18=-160/2090, 16-17=0/137,

13-14=-88/472, 12-13=-9/82

3-17=-197/124, 4-17=0/226, 15-17=-111/1820, 4-15=-424/97, 6-14=-976/139, 7-14=0/260, 8-14=-55/1061,

8-13=-1296/132, 11-12=-78/12

11-13=-98/120, 9-13=-113/352,

3-18=-1699/0, 10-13=-109/1278

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	C15	Piggyback Base Supported Gable	1	1	Job Reference (optional)	153666708

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:17 ID:i_o_HS22LykRnKU00usuEZyncio-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:73

Plate Offsets (X, Y): [9:0-2-8,Edge], [14:0-2-8,0-2-4], [20:0-2-8,0-2-4], [22:Edge,0-3-8], [30:0-3-8,0-3-0]

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(lo	bc) l	/defl	L/d	PLATES	GRIP	
TCLL (roof)		25.0	Plate Grip DOL	1.15		TC	0.38	Vert(LL)	n/a		-	n/a	999	MT20	197/144	
TCDL		10.0	Lumber DOL	1.15		BC	0.15	Vert(CT)	n/a		-	n/a	999			
BCLL		0.0*	Rep Stress Incr	YES		WB	0.14	Horz(CT)	-0.01		22	n/a	n/a			
BCDL		10.0	Code	IRC20	18/TPI2014	Matrix-R								Weight: 216 lb	FT = 10%	
	0.4005			I	FORCES	(lb) - Maximum Con	npressi	on/Maximum		5)	All pla	ites ar	e 2x4	MT20 unless oth	erwise indicated	d.
	2X4 SPF I	NO.Z		-		2 29- 205/2 1 2-0	122 2 2	- 200/52		0) 7)	Trucc	to bo	fully c	hanthod from on	chord bearing.	d.
	2X4 SPF I	NO.Z				2-30=-205/3, 1-2=0/	02, 2-3 029/54	=-209/52, 5-6209/54		()	hrace	d agai	net lat	eral movement (i	e diagonal we	ny h)
	2X4 SPF 1 2v/ SDF 1	No.2				6-7=-190/54 7-8=-1	80/55	8-10=-169/60		8)	Gable	studs	snac	ed at 2-0-0 oc	.c. diagonal wei	0).
DRACING	274 011 1	110.2				10-11=-159/70. 11-	12=-14	3/78.	,	9)	This tr	russ ha	as bee	en designed for a	10.0 psf bottor	n
	Structure	lwood obo	othing directly opplied	lor		12-13=-140/90, 13-	14=-12	1/89,		0)	chord	live lo	ad no	nconcurrent with	any other live k	bads.
IOP CHORD			cent end verticals and	4		14-15=-104/85, 15-	16=-104	4/85,		10)	* This	truss	has b	een designed for	a live load of 20).0psf
	2-0-0 00 1	purlins, CA	-0 max): 14-20	u		16-17=-104/85, 17-	18=-104	4/85,		,	on the	botto	m cho	ord in all areas wh	nere a rectangle	
BOT CHORD	Rigid ceil	ing directly	applied or 10-0-0 oc			18-19=-104/85, 19-	20=-104	4/85,			3-06-0	00 tall	by 2-0	00-00 wide will fit	between the bo	ttom
	bracing.	ing anoony				20-21=-150/114, 21	-22=-12	25/83			chord	and a	ny oth	er members.		
WEBS	1 Row at	midpt	21-22, 11-30, 12-29,	I	BOT CHORD	37-38=-105/80, 36-	37=-10	5/80,		11)	Provic	le med	chanic	al connection (by	/ others) of truss	s to
			13-28, 15-27, 16-26,			35-36=-105/80, 34-	35=-10	5/80, -/80			bearin	ig plat	e capa	able of withstand	ng 22 lb uplift a	t joint
			17-25, 18-24, 19-23			33-34=-105/80, 32-	33=-10	5/80, =/80			22, 11	6 lb u	plift at	joint 37, 2 lb upli	ft at joint 36, 29	lb
REACTIONS	(size)	22=32-0-0), 23=32-0-0, 24=32-0)-0,		28-20-105/80, 23-	28_10	5/80,			upint a		. 35,∠ ⊪#ati	2 ID UPIIIT AT JOINT	34, 24 ID UPIIIT a	at joint
		25=32-0-0), 26=32-0-0, 27=32-0)-0,		26-27=-105/80 25-	26=-10	5/80, 5/80			unlift a	at inint	30.2	8 lb unlift at ioint	29 7 lb unlift at	ioint
		28=32-0-0), 29=32-0-0, 30=32-0)-0,		24-25=-105/80, 23-2	24=-10	5/80,			28. 29) Ib up	lift at i	oint 27, 15 lb upli	ift at joint 26, 12	lb
		31=32-0-0), 32=32-0-0, 33=32-0	0-0,		22-23=-105/80		,			uplift a	at ioint	25.1	3 lb uplift at joint	24 and 18 lb up	lift at
		34=32-0-0	0, 35=32-0-0, 36=32-0)-0, _\	NEBS	3-37=-126/100, 4-3	6=-143/	36, 5-35=-139	/51,		joint 2	3.	- ,			
		37=32-0-0	0, 38=32-0-0			6-34=-140/47, 7-33	=-140/4	8, 8-32=-140/4	48,	12)	This tr	russ is	desig	ned in accordance	ce with the 2018	3
	Max Horiz	38=319 (L				10-31=-140/48, 11-	30=-14	0/47,			Intern	ationa	l Resi	dential Code sec	tions R502.11.1	and
	Max Uplift	22=-22 (L	C 8, 23=-18 (LC 5),			12-29=-140/52, 13-	28=-13	9/31,			R802.	10.2 a	and ref	ferenced standar	d ANSI/TPI 1.	
		24=-13 (L 2615 (L	C(5), 25 = 12 (LC(4)), C(4), 27 = 29 (LC(5))			15-27=-141/54, 16-	26=-14	4/40,						000	JOR	
		28=-7 (I C	(20 +), 27 = 23 (20 - 3), (1 C 8) 29=-28 (1 C 8)			17-25=-140/35, 18-	24=-13	9/51,						8 OF	MIC	
		30=-23 (L	C 8), 31=-24 (LC 8).			19-23=-140/119								BIE	-050,4	r v
		32=-24 (L	C 8), 33=-24 (LC 8),	I	NOTES								2	451	NO.	N
		34=-22 (L	C 8), 35=-29 (LC 8),		1) Unbalanced	l roof live loads have	been o	considered for					6	sco	ТТ М. \С	~ X ~
		36=-2 (LC	8), 37=-116 (LC 8)		this design.		(0						Я	/ SE	VIER \	Y.
	Max Grav	22=84 (LC	C 16), 23=190 (LC 22)), 2	2) Wind: ASCE	= 7-16; Vult=115mpr	1 (3-sec	ond gust)	ot				1	*	.1	× Y
		24=178 (L	_C 22), 25=180 (LC 1)),	II: Evo B: E	n, TODL=0.0psi, DC		$p_{SI}, n=2511, C$	al.					(TT>	ADAN	1 / 10-7
		26=184 (L	_C 22), 27=181 (LC 1)),	cantilever le	ft and right exposed	· end v	ertical left and	э, I				X	STO NI IN	ABER	2 W
		28=179 (L	LC 1), 29=180 (LC 1),		right expose	ed: Lumber DOL=1.6	50 plate	arip DOL=1.6	0				N	PE 200	1010007	EN P
		30=180 (L	(LC I), 31 = 180 (LC I),	:	 Truss desid 	ned for wind loads i	n the p	ane of the trus	SS				y	PE-200	101000/	9A
		34-180 (L	C(1), $35=180$ (LC(1), $C(1)$) $35=179$ (LC(1))		only. For st	uds exposed to wind	d (norm	al to the face),					0	W. Co	IN IN	4
		36=184 (I	_C 1), 37=164 (LC 1),		see Standa	rd Industry Gable Er	d Deta	ils as applicab	le,					SION	AL ENS	7
		38=245 (L	_C 16)		or consult q	ualified building des	igner as	s per ANSI/TP	l 1.					ALL SIV	AL	
			/	4	 Provide ade 	equate drainage to p	revent v	water ponding.								
														Augus	t 16,2022	



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM		
B220118	C15	Piggyback Base Supported Gable	1	1	Job Reference (optional)	153666708	
Wheeler Lumber, Waverly, KS -	66871,	Run: 8.43 S Jan 6 2	022 Print: 8.4	130 S Jan 6	2022 MiTek Industries, Inc. Mon Aug 15 13:48:17	Page: 2	

ID:i_o_HS22LykRnKU00usuEZyncio-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

 Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	D1	Common Supported Gable	1	1	Job Reference (optional)	153666709

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:17 ID:PetLp3zf_psRSFRg6wEFS5ynciv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



20-4-0

Scale = 1:44.1 Plate Offsets (X, Y): [19:0-2-8,0-1-4]

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15		TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.07	Horz(CT)	0.00	14	n/a	n/a		
BCDL		10.0	Code	IRC2	018/TPI2014	Matrix-R							Weight: 84 lb	FT = 10%
LUMBER					WEBS	7-20=-125/0, 6-2	21=-151/48	, 5-22=-138/	49,					
TOP CHORD	2x4 SPF	No.2				4-23=-142/44, 3	-24=-134/6	1, 8-18=-151	/48,					
BOT CHORD	2x4 SPF	No.2				9-17=-138/49, 1	0-16=-142	45, 11-15=-1	34/58					
WEBS	2x4 SPF	No.2			NOTES									
OTHERS	2x4 SPF	No.2			 Unbalanced 	d roof live loads h	ave been o	considered for	or					
BRACING					this design.									
TOP CHORD	Structura 6-0-0 oc	al wood she purlins, exe	athing directly applie cept end verticals.	ed or	 Wind: ASC Vasd=91m 	E 7-16; Vult=115r oh; TCDL=6.0psf;	mph (3-seo ; BCDL=6.0	ond gust) Opsf; h=25ft;	Cat.					
BOT CHORD	Rigid ceil bracing.	ling directly	applied or 10-0-0 or	С	II; Exp B; E cantilever le	nclosed; MWFRS eft and right expo	6 (envelope sed ; end \	e) exterior zon vertical left ar	ne; nd					
REACTIONS	(size)	14=20-4-0	0, 15=20-4-0, 16=20	-4-0,	right expos	ed; Lumber DOL=	=1.60 plate	grip DOL=1.	.60					
		17=20-4-0), 18=20-4-0, 20=20	-4-0,	 Truss designation 	gned for wind loa	ds in the p	lane of the tr	uss					
		21=20-4-0), 22=20-4-0, 23=20	-4-0,	only. For s	tuds exposed to v	wind (norm	al to the face	e),					
		24=20-4-0	0, 25=20-4-0		see Standa	rd industry Gable	e End Dela	iis as applica	DIE,					
	Max Horiz	25=-64 (L	C 6)		4) All ploton o	a 2x4 MT20 uple	uesigner a	s per ANSI/T	PLI.					
	Max Uplift	14=-2 (LC	2 8), 15=-40 (LC 9),		 All plates a Coble requi 	iros continuous b	ottom chor	d booring						
		16=-19 (L	C 9), 17=-26 (LC 9),	,	 Gable Tequ Truce to bo 	fully shoothod fr	on one for	u bearing.	,					
		18=-24 (L	C 9), 21=-24 (LC 8),	,	braced aga	inst lateral mover	ment (i.e. d	iagonal web						
		22=-26 (L	C 8), 23=-18 (LC 8),	,	 Diaceu aya Coblo ctude 			lagunal web)	•					
		24=-45 (L	C 8), 25=-12 (LC 9)		 Gable Studie This trues h 	s spaceu al 2-0-0	d for a 10 () not bottom						
	Max Grav	14=168 (L	LC 22), 15=176 (LC	1),	chord live l	as been designe	nt with any	other live los	de					
		16=182 (L	LC 22), 17=178 (LC	1),	0) * This trucs	bac boon dosign	nd for a liv	o load of 20	lus. Onef					
		18=191 (L	C 22), 20=100 (LC C 21), 22-178 (LC C 21)	18),	on the bott	m chord in all ar	eas where	e loau of 20.	оры				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ME
		21=191 (L 22_192 (I	C 21), 22=176 (LC	1),	3-06-00 tall	by 2-00-00 wide	will fit hetv	veen the bott	om				OF	MIG
		25=102 (L 25=168 (L	C 21), 24=170 (LC	1),	chord and a	any other membe	rs		onn				ALEUT	WIIS'S
FORCES	(lb) - Max	kimum Com	pression/Maximum		10) Provide me bearing pla	chanical connect	ion (by oth	ers) of truss 2 lb uplift at i	to ioint			E	SCO'	M TT M
		0/21 1 2 0	1/22 2 2 6E/49		25, 2 lb upl	ft at joint 14, 24 l	b uplift at jo	oint 21, 26 lb				U	7 SEV	VIER V V
TOP CHORD	2-20=-14	9/21, 1-2=0 55 /1-538	//32, 2-3=-03/40, /74 5-633/03		uplift at join	t 22, 18 lb uplift a	at joint 23, 4	45 lb uplift at	joint			-N.	↓ ~~	
	6-738/1	100 7-83	8/10/ 8-0-33/70		24, 24 lb up	olift at joint 18, 26	lb uplift at	joint 17, 19 l	b			00	-And L	X M
	9-1034	/60 10-11-	33/45 11-1254/3	37	uplift at join	t 16 and 40 lb up	lift at joint	15.					cotto.	X-PMed
	12-13=0/	32 12-14 <u>-</u>	-149/13	<i>,</i>	11) This truss is	s designed in acc	ordance w	ith the 2018				8	B NUN	ABER ABER
BOT CHORD	24-25=-1	6/49 23-24	L=-16/49 22-23=-16	/49	Internationa	al Residential Coo	de sections	R502.11.1 a	and			0	O PE-200	1018807
201 0110112	21-22=-1	6/49, 20-21	=-16/49, 18-20=-16	/49.	R802.10.2	and referenced st	tandard AN	ISI/TPI 1.				1	1 12	12A
	17-18=-1 14-15=-1	6/49, 16-17 6/49	/=-16/49, 15-16=-16	/49,	LOAD CASE(S) Standard							CSSION.	AL ENGLE
													Augus	t 16,2022

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	D2	Common	4	1	Job Reference (optional)	153666710



Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:18

Plate Offsets (X, Y): [8:0-3-5,0-5-12], [12:0-1-10,0-3-4]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.83	Vert(LL)	-0.13	9-11	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.57	Vert(CT)	-0.23	9-11	>999	240	M18SHS	197/144	
BCLL	0.0*	Rep Stress Incr	YES		WB	0.12	Horz(CT)	0.03	8	n/a	n/a			
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S		Wind(LL)	0.05	9-11	>999	240	Weight: 69 lb	FT = 10%	
LUMBER FOP CHORD 30T CHORD WEBS BRACING FOP CHORD	 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce Structural wood she 2.5 45 co puding to a 	ept* 12-2,8-6:2x6 SF	6) PDSS 7) ed or	Provide mec bearing plate 12 and 21 lb This truss is International R802.10.2 ar	hanical connection e capable of withsta uplift at joint 8. designed in accord Residential Code nd referenced stan Standard	n (by oth anding 2 dance w sections idard AN	ers) of truss t 21 lb uplift at j ith the 2018 \$ R502.11.1 a \$SI/TPI 1.	oint ind						
3OT CHORD	 Rigid ceiling directly bracing. 	applied or 10-0-0 o	c		Standard									
REACTIONS	(size) 8=0-3-8, Max Horiz 12=-65 (L Max Uplift 8=-21 (LC Max Grav 8=972 (LC	12=0-3-8 .C 6) C 9), 12=-21 (LC 8) C 1), 12=972 (LC 1)												
ORCES	(lb) - Maximum Com Tension	npression/Maximum												
TOP CHORD	 1-2=0/35, 2-3=-1330 4-5=-1130/48, 5-6=- 2-12=-880/61, 6-8=- 	0/38, 3-4=-1130/47, 1330/38, 6-7=0/35, ·880/61												
BOT CHORD WEBS	 11-12=-37/1086, 9-1 4-9=-22/359, 5-9=-2 3-11=-253/121 	11=0/807, 8-9=0/108 53/121, 4-11=-22/3	36 59,											
NOTES														
 Unbalance this designation 	ced roof live loads have jn.	been considered fo	r									CF OF	MIG	
2) Wind: AS	, CE 7-16; Vult=115mph mph: TCDI =6 0psf: BC	(3-second gust)	Cat								4	FIF	Soser Ser	

- 2) Wind: ASCE 7-16, Valler Fornph (3-Second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
 This target has been platered for a 40.0 met hattered.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom
- 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

SCOTT M. SEVIER NUMBER PE-2001018807 FE-2001018807 August 16,2022

Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	D3	Common Girder	1	2	Job Reference (optional)	153666711

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:18 ID:E3m1exF4atlAioi5yG8euxynciY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:44.6

Plate Offsets (X, Y): [2:0-4-0,0-4-1], [6:Edge,0-0-7], [8:0-6-0,0-6-4], [9:0-4-0,0-5-12]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.99	Vert(LL)	-0.13	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.56	Vert(CT)	-0.22	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.46	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	-0.01	8-9	>999	240	Weight: 222 lb	FT = 10%
LUMBER TOP CHORE BOT CHORE WEBS WEDGE BRACING TOP CHORE BOT CHORE REACTIONS	 2x4 SPF No.2 2x8 SP DSS 2x4 SPF No.2 Left: 2x4 SPF No.2 Structural wood sheat 3-10-11 oc purlins. Rigid ceiling directly bracing. (size) 2=0-3-8, 6 Max Horiz 2=70 (LC 	athing directly applied applied or 10-0-0 oc =0-3-8 12)	4) 5) f or 6) 7)	Wind: ASCE Vasd=91mph II; Exp B; End cantilever left right exposed This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an This truss is of International	7-16; Vult=115mph ; TCDL=6.0psf; BC closed; MWFRS (e and right exposed d; Lumber DOL=1.6 s been designed for d nonconcurrent w as been designed n chord in all areas y 2-00-00 wide will y other members. designed in accord Residential Code s	h (3-sec CDL=6.0 nvelope 1; end v 50 plate or a 10.0 <i>i</i> th any for a liv where I fit betw lance w sections	cond gust) Dpsf; h=25ft; e) exterior zo vertical left ar grip DOL=1 D psf bottom other live loa e load of 20. a rectangle veen the bott ith the 2018 is R502.11.1 a	Cat. ne; nd .60 ads. 0psf rom					
	Max Grav 2=5721 (L	C 1), 6=4827 (LC 1)		R802.10.2 ar	nd referenced stand	dard AN	ISI/TPI 1.						
FORCES	(lb) - Maximum Com	pression/Maximum	8)	Hanger(s) or	other connection d	levice(s) shall be						
TOP CHORE BOT CHORE WEBS	Tension 1-2=0/11, 2-3=-7655 4-5=-7547/0, 5-6=-76 2-9=0/6595, 8-9=0/4 4-8=0/3766, 5-8=0/3 3-9=0/307	/0, 3-4=-7505/0, 397/0 707, 6-8=0/6631 17, 4-9=0/3694,		provided sufficient to support concentrated load(s) 874 Ib down at 0-1-12, 867 lb down at 2-3-4, 867 lb down at 4-3-4, 867 lb down at 6-3-4, 867 lb down at 8-3-4, 867 Ib down at 10-3-4, 867 lb down at 12-3-4, 867 lb down at 14-3-4, and 865 lb down at 16-3-4, and 865 lb down at 18-3-4 on bottom chord. The design/selection of									
NOTES				such connect	tion device(s) is the	e respor	nsibility of oth	ners.					
 2-ply trus (0.131*x: Top chor oc. Bottom c staggere Web con All loads except if CASE(S) provided unless of 	is to be connected toget ") nails as follows: ds connected as follows: hords connected as follows hords connected as follows at 0-9-0 oc. nected as follows: 2x4 - are considered equally: noted as front (F) or bac section. Ply to ply conn section. Ply to ply conn to distribute only loads i herwise indicated.	her with 10d : 2x4 - 1 row at 0-6-0 ws: 2x8 - 2 rows 1 row at 0-9-0 oc. applied to all plies, k (B) face in the LOA ections have been hoted as (F) or (B),	DAD CASE(S) Dead + Roc Plate Increa Uniform Loa Vert: 1-4= Concentrate Vert: 2=-{ (F), 12=-{ (F), 16=-{	Standard of Live (balanced): I ise=1.15 ads (lb/ft) =-70, 4-6=-70, 2-6= ed Loads (lb) 874 (F), 7=-865 (F) 367 (F), 13=-867 (F) 367 (F), 17=-865 (F)	Lumber 20 -, 10=-8 -), 14=- -)	Increase=1. 67 (F), 11=-6 867 (F), 15=-	15, 367 -867				STATE OF STATE OF SEV	MISSOLA T M. TER	

Unbalanced roof live loads have been considered for 3) this design.

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



ESSIONAL ET

August 16,2022

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	E1	Common Supported Gable	1	1	Job Reference (optional)	153666712



Scale = 1:48.4

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)		25.0	Plate Grip DOL	1.15		TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144	
TCDL		10.0	Lumber DOL	1.15		BC	0.04	Vert(CT)	n/a	-	n/a	999			
BCLL		0.0*	Rep Stress Incr	YES		WB	0.14	Horz(CT)	0.00	14	n/a	n/a			
BCDL		10.0	Code	IRC20	18/TPI2014	Matrix-R							Weight: 96 lb	FT = 10%	
LUMBER					WEBS	7-19=-155/0, 6-20=-	-151/57	, 5-21=-138/	62,						
TOP CHORD	2x4 SPF I	No.2			4	4-22=-144/54, 3-23=	=-143/7	9, 8-18=-151	/56,						
BOT CHORD	2x4 SPF I	No.2			9	9-17=-138/62, 10-16	6=-144,	/55, 11-15=-1	38/76						
WEBS	2x4 SPF I	No.2			NOTES										
OTHERS	2x4 SPF I	No.2			1) Unbalanced	roof live loads have	been o	considered fo	or						
BRACING					this design.										
TOP CHORD	Structura	I wood shea	athing directly applie	d or 🛛	2) Wind: ASCE	7-16; Vult=115mph	n (3-sec	ond gust)							
	6-0-0 oc p	purlins, exc	cept end verticals.		Vasd=91mpl	n; TCDL=6.0psf; BC	DL=6.	Opsf; h=25ft;	Cat.						
BOT CHORD	Rigid ceil	ing directly	applied or 10-0-0 oc		II; Exp B; En	closed; MWFRS (er	nvelope	e) exterior zo	ne;						
	bracing.				cantilever lef	t and right exposed	; end \	ertical left ar	nd						
REACTIONS	(size)	14=20-0-0	, 15=20-0-0, 16=20-	0-0,	right expose	d; Lumber DOL=1.6	60 plate	grip DOL=1.	60						
		17=20-0-0), 18=20-0-0, 19=20-	0-0,	 Truss design 	Truss designed for wind loads in the plane of the truss									
		20=20-0-0), 21=20-0-0, 22=20-	·0-0,	only. For stu	ids exposed to wind	(norm	al to the face),						
		23=20-0-0), 24=20-0-0		see Standard	d Industry Gable En	d Deta	ils as applica	ble,						
	Max Horiz	24=-152 (LC 6)		or consult qu	allied building desi	igner as	sper ANSI/T	PLI.						
	Max Uplift	14=-25 (L	C 5), 15=-68 (LC 9),		 All plates are Coble require 	2X4 IVI I ZU UNIESS (otherwi	se indicated.							
		16=-27 (L	C 9), 17=-39 (LC 9),		S) Gable require	ully cheathad from		u bearing.							
		18=-32 (L	C 9), 20=-33 (LC 8),		braced again	ully sheathed from		iagonal wob							
		21=-39 (L	C 8), 22=-25 (LC 8),		7) Cablo stude	spaced at 2.0.0 oc	it (i.e. u	lagonal web)	•						
		23=-74 (L	C 8), 24=-47 (LC 4)		 Cable studs This trues has 	spaceu al 2-0-0 0c.	r o 10 i) not bottom							
	Max Grav	14=162 (L	.C 15), 15=190 (LC 1	16), '	chord live lo	ad nonconcurrent w	ith anv	other live los	shi						
		10=104 (L	.C 22), 17=177 (LC C 22), 10-105 (LC 2	1), 10)	a) * This truss h	as been designed	for a liv	e load of 20	nnsf						
		10=191 (L 20-101 (l	.C 22), 19=195 (LC C 21) 21=177 (LC 2	10), 1)	on the bottor	n chord in all areas	where	a rectangle	opor						
		20=191 (L 22=184 (L	(LC 21), 21=177 (LC 21), 23=100 (LC 21)	1), 15)	3-06-00 tall b	v 2-00-00 wide will	fit betv	veen the bott	om					100	
		22=104 (L 24=180 (L	C 16)	13),	chord and ar	v other members.							A	All and a second	
FORCES					10) Provide mec	hanical connection	(bv oth	ers) of truss	to				B.F. OF	MISS	
FURGES	(ID) - Max	amum Com	pression/waximum		bearing plate	capable of withsta	nding 4	7 lb uplift at	oint				8.20	N.V.	
	2 24- 15	0/12 1 2-0	1/10 2 2- 102/06		24, 25 lb upli	ft at joint 14, 33 lb ι	uplift at	joint 20, 39 l	b			E	SCOT	TTM XX	
	2-24=-130	0/42, 1-2-0 76	100 5-664/126		uplift at joint	21, 25 lb uplift at joi	int 22, 1	74 lb uplift at	joint			B	SET SET		
	6-7=-56/1	50 7-8=-48	R/142 8-9=-45/114		23, 32 lb upli	ft at joint 18, 39 lb ι	uplift at	joint 17, 27 l	b			50			
	9-10=-56/	/87. 10-11=	-62/64. 11-12=-80/7	0.	uplift at joint	16 and 68 lb uplift a	at joint '	15.				N		0	
	12-13=0/4	40. 12-14=-	144/24	-,	11) This truss is	designed in accord	ance w	ith the 2018				X	datt?	So Mess	
BOT CHORD	23-24=-66	6/76. 22-23	=-66/76. 21-22=-66/	76.	International	Residential Code s	ections	R502.11.1 a	nd		•	- KA	NUN	IBER /×A	
	20-21=-66	6/76, 19-20	=-66/76, 18-19=-66/	76,	R802.10.2 a	nd referenced stand	ard AN	ISI/TPI 1.				N.	% PE-200	1018807	

17-18=-66/76, 16-17=-66/76, 15-16=-66/76, 14-15=-66/76

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	E2	Common	3	1	Job Reference (optional)	153666713

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:18

Wheeler Lumber, Waverly, KS - 66871,



1	10-0-0	20-0-0	
Γ	10-0-0	10-0-0	
Scale = 1:52.5			
Plate Offsets (X, Y): [2:Edge,0-3-4], [6:Edge,0-3-4]			

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.30	Vert(LL)	-0.18	8-9	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15		BC	0.81	Vert(CT)	-0.37	8-9	>633	240			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.74	Horz(CT)	0.03	7	n/a	n/a			
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S		Wind(LL)	0.01	8	>999	240	Weight: 78 lb	FT = 10%	
	2v4 SPE No 2		5)	Provide mec	hanical connection	(by oth	ers) of truss t 3 lb uplift at i	to oint						
	2x4 SPE No 2			9			o io apineae)	0						
WEBS	2x3 SPE No 2 *Exce	ont* 9-2 7-6·2v4 SPF	6)	This truss is	designed in accord	ance w	ith the 2018							
WEBO	No 2	Spt 5 2,7 0.2A+ 011	0)	International	Residential Code s	sections	R502.11.1 a	and						
				R802.10.2 a	nd referenced stand	dard AN	ISI/TPI 1.							
	Structural wood she	athing directly appli	ed or LC	AD CASE(S)	Standard									
	5-10-13 oc purlins	except end verticals												
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	c.											
	bracing.		•											
REACTIONS	(size) 7=0-3-8	9=0-3-8												
	Max Horiz 9=148 (I)	C 7)												
	Max Uplift 9=-13 (10	C 8)												
	Max Grav 7=885 (1)	C(1) = 960 (IC(1))												
FORCES	(lb) - Maximum Con Tension	npression/Maximum												
TOP CHORD	1-2=0/40, 2-3=-425/ 4-5=-872/53, 5-6=-3	/51, 3-4=-870/53, 879/24, 2-9=-423/67,												
	6-7=-316/37													
BOT CHORD	8-9=-53/830, 7-8=0/	/839												
WEBS	4-8=0/524, 5-8=-282	2/145, 3-8=-272/143	,											
	3-9=-713/25, 5-7=-7	'64/41												
NOTES												000	1000	
1) Unbalance	ed roof live loads have	been considered fo	r									8 OF	MIC	

- this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 This truss has been designed for a 10.0 psf bottom
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 4) * This truss has been designed for a live load of 20.0psi
- * 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.

August 16,2022

Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	E3	Common	8	1	Job Reference (optional)	153666714

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:19 ID:fNwki84lta_91eeP8JuMJ_yncim-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



l	10-0-0	20-0-0	
Г	10-0-0	10-0-0	
Scale = 1:49.7			
ate Offsets (X, Y): [1:Edge,0-2-0], [5:Edge,0)-2-0]		

LOAD CASE(S) Standard

or

				1								
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.18	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.37	6-7	>633	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.01	7	>999	240	Weight: 77 lb	FT = 10%

OP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
VEBS	2x3 SPF No.2 *Except* 8-1,6-5:2x4 SPF
	No.2
BRACING	
OP CHORD	Structural wood sheathing directly applied
	5-11-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(size) 6= Mechanical, 8=0-3-8
	Max Horiz 8=-139 (LC 4)
	Max Grav 6=887 (LC 1), 8=887 (LC 1)
ORCES	(lb) - Maximum Compression/Maximum
	Tension
OP CHORD	1-2=-380/24, 2-3=-875/53, 3-4=-875/53,
	4-5=-380/24, 1-8=-316/37, 5-6=-316/37
BOT CHORD	7-8=-55/841, 6-7=0/841

WEBS 3-7=0/531, 4-7=-282/145, 2-7=-282/145, 2-8=-767/41, 4-6=-767/41

NOTES

LUMBER

F

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



Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	F1	Common Supported Gable	1	1	Job Reference (optional)	153666715



Scale =	1:38.5
---------	--------

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-R	0.07 0.03 0.07	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 12	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 61 lb	GRIP 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 12=14-0- 15=14-0- 15=14-0- Max Horiz 20=115 (Max Uplift 12=-41 (L 17=-37 (L 19=-69 (L Max Grav 12=129 (14=187 (18=186 (20=149 (eathing directly applie cept end verticals. ⁷ applied or 6-0-0 oc 0, 13=14-0-0, 14=14- 0, 16=14-0-0, 17=14- 0, 19=14-0-0, 20=14- LC 7) C 5), 13=-63 (LC 9), C 9), 15=-36 (LC 9), C 8), 18=-33 (LC 8), C 8), 20=-63 (LC 4) LC 15), 13=140 (LC 2) LC 15), 15=189 (LC 2) LC 13), 17=189 (LC 2) LC 13), 17=189 (LC 2) LC 13), 19=150 (LC 14) LC 16)	2) 3) 4d or -0-0, -0-0, 6) -0-0, 7) 8) 9) 16), 21), 10	Wind: ASCE Vasd=91mph II; Exp B; Enn- cantilever lef right exposed Truss design only. For stu see Standard or consult qu All plates are Gable require Truss to be fin braced again Gable studs: This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and ar) Provide mect bearing plate 20, 41 lb upli uplift at joint	7-16; Vult=115m a; TCDL=6.0psf; closed; MWFRS t and right exposed b; Lumber DOL= red for wind load ds exposed to w d Industry Gable alified building du 2x4 MT20 unlese es continuous bo ully sheathed from st lateral moverm spaced at 2-0-0 s been designed an onconcurrent as been designed d nonconcurrent as been designed that point all are y 2-00-00 wide v y other members hanical connection c capable of withs ft at joint 12, 69 I 7 - 33 lb uplift at	aph (3-sec BCDL=6.((envelope ed; end v 1.60 plate is in the pl ind (norm End Detal esigner as so otherwi: ttom chor m one fac esigner (i.e. d oc. for a 10.0 t with any ed for a liv as where will fit betw s. on (by oth standing 6 b uplift at ioint 18.3	ond gust))psf; h=25ft;) exterior zoo ertical left al grip DOL=1 ane of the tr al to the face Is as applica per ANSI/T se indicated. d bearing. e or securely iagonal web 0 psf bottom other live loa e load of 20. a rectangle reen the bott ers) of truss 3 lb uplift at joint 19, 371 6 lb uplift at	Cat. one; .60 russ e), able, TPI 1. y). ads. .0psf tom to joint lb t ioint						
FORCES TOP CHORD BOT CHORD	(lb) - Maximum Con Tension 2-20=-122/45, 1-2= 3-4=-59/73, 4-5=-52 6-7=-39/95, 7-8=-38 9-10=-56/52, 10-11: 19-20=-53/56, 15-11 13-14=-53/56, 15-11 13-14=-53/56, 12-12	npression/Maximum 0/40, 2-3=-77/76, 1/79, 5-6=-45/103, 1/71, 8-9=-45/62, =0/40, 10-12=-115/28 9=-53/56, 17-18=-53/ 5=-53/56, 14-15=-53/ 3=-53/56	11 3 LC 56, 56,	15, 34 lb upli) This truss is International R802.10.2 ar DAD CASE(S)	ft at joint 14 and designed in acco Residential Code nd referenced sta Standard	63 lb uplif ordance wi e sections andard AN	t at joint 13. th the 2018 R502.11.1 a SI/TPI 1.	and				STATE OF STATE SCO SET	MISSOUR	
WEBS NOTES 1) Unbalance this design	3-19=-102/64, 6-16: 4-18=-144/60, 7-15: 9-13=-97/62 ed roof live loads have n.	=-139/0, 5-17=-150/6 =-150/60, 8-14=-145/ been considered for	0, '61,								A A A A A A A A A A A A A A A A A A A	PE-200	IBER 1018807	

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

August 16,2022

MiTek° 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	F2	Common	2	1	Job Reference (optional)	153666716

Run: 8,43 S Jan 6 2022 Print: 8,430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:19 ID:iFKPrGGiLBt1KyHHWzftQ8ynciX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





7-0-0	14-0-0
7-0-0	7-0-0

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.07	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.13	5-6	>999	240	M18SHS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.03	6-7	>999	240	Weight: 42 lb	FT = 10%

LUMBER

Scale = 1:41.3

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

7	This truss is	designed in	accordance	with the 2018
	11110 11000 10	acoignou in	accordance	11110 2010

International Residential Code sections R502.11.1 and

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING		
TOP CHORD	Structural 4-11-7 oc	wood sheathing directly applied or purlins, except end verticals.
BOT CHORD	Rigid ceili bracing.	ng directly applied or 10-0-0 oc
REACTIONS	(size)	5=0-3-8, 7=0-3-8
	Max Horiz	7=-111 (LC 6)
	Max Uplift	5=-12 (LC 9)
	Max Grav	5=748 (LC 16), 7=680 (LC 15)
FORCES	(lb) - Max Tension	imum Compression/Maximum
TOP CHORD	1-2=-738/	43, 2-3=-744/44, 3-4=0/40,
	1-7=-561/	47, 3-5=-635/61
BOT CHORD	6-7=0/542	2, 5-6=0/542
WEBS	2-6=0/363	3

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom 4)
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 5) 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. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint
 - 5.





Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	F3	Common	3	1	Job Reference (optional)	153666717

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:19 ID:IFKPrGGiLBt1KyHHWzftQ8ynciX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:44	
--------------	--

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.07	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.12	5-6	>999	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.03	5-6	>999	240	Weight: 41 lb	FT = 10%

LUMBER

TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except* 5-2:2x3 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	(size) 4=0-3-8, 6=0-3-8
	Max Horiz 6=103 (LC 7)
	Max Grav 4=682 (LC 16), 6=682 (LC 15)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-739/43, 2-3=-738/43, 1-6=-560/46,
	3-4=-560/46
BOT CHORD	5-6=0/536, 4-5=0/536
WEBS	2-5=0/357

NOTES

 Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.4) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 6) This truss is designed in accordance with the 2018
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	F4	Common Girder	1	2	Job Reference (optional)	153666718

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:20 ID:iFKPrGGiLBt1KyHHWzftQ8ynciX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Plate Offsets (X, Y): [1:Edge,0-0-11], [3:Edge,0-0-11]

Loa TCL TCI BCL BCI	i ding .L (roof) DL .L DL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.80 0.57 0.67	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.09 -0.16 0.01 0.02	(loc) 1-4 1-4 3 3-4	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 134 lb	GRIP 197/144 FT = 10%
LUN TOF BOT WE WE BR/ TOF BOT	ACHORD CHORD BS DGE ACING CHORD CHORD	2x4 SPF No.2 2x8 SP DSS 2x3 SPF No.2 Left: 2x3 SPF No.2 Right: 2x3 SPF No.2 Structural wood shea 4-9-13 oc purlins. Rigid ceiling directly bracing. (size) 1=0-3-8.3	athing directly applied applied or 10-0-0 oc 3=0-3-8	4) 5) d or 6) 7)	Wind: ASCE Vasd=91mph II; Exp B; Enn cantilever left right exposed This truss ha chord live loa * This truss ha on the botton 3-06-00 tall b chord and an This truss is	7-16; Vult=115mp n; TCDL=6.0psf; BC closed; MWFRS (et and right exposed d; Lumber DOL=1.1 s been designed for ad nonconcurrent w has been designed n chord in all areas y 2-00-00 wide will y other members.	h (3-sec CDL=6.0 cnvelope d; end v 60 plate or a 10.0 vith any for a liv s where Il fit betw dance w	ond gust) Opsf; h=25ft;) exterior zo ertical left ar grip DOL=1) psf bottom other live lose e load of 20. a rectangle veen the bott th the 2018	Cat. ne; nd .60 ads. 0psf com					
FOF TOF BOT	CHORD CHORD CHORD S	(size) 1=0-3-8, 3 Max Horiz 1=94 (LC Max Grav 1=4126 (L (Ib) - Maximum Com Tension 1-2=-3896/0, 2-3=-3 1-4=0/3077, 3-4=0/3 2-4=0/4104	1=0-3-8 26) .C 15), 3=3040 (LC 1 pression/Maximum 927/0 .077	6) 8)	International R802.10.2 ar Hanger(s) or provided suff Ib down at 2 and 23 lb up 8-0-12, and 6 686 lb down	Residential Code s and referenced stan other connection of icient to support of -0-12, 1664 lb dow at 6-0-12, 686 lb of 686 lb down and 23 and 23 lb up at 12	sections dard AN device(s oncentra /n at 4-0 down ar 3 lb up a 2-0-12 o	R502.11.1 a ISI/TPI 1.) shall be tted load(s) 1 0-12, 686 lb d d 23 lb up at t 10-0-12, a n bottom cho	and 1664 down t ind ord.					
NO ⁻ 1) 2)	TES 2-ply truss (0.131"x3" Top chord oc. Bottom ch staggered Web conn All loads a except if n CASE(S) s provided to unless oth	to be connected toget ') nails as follows: s connected as follows ords connected as follows at 0-6-0 oc. ected as follows: 2x3 - ire considered equally ioted as front (F) or bac section. Ply to ply conn o distribute only loads i nerwise indicated.	ther with 10d 5: 2x4 - 1 row at 0-9-0 5: 2x8 - 2 rows 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO/ nections have been noted as (F) or (B),	LC) 1)	The design/s responsibility PAD CASE(S) Dead + Roo Plate Increa Uniform Loa Vert: 1-2= Concentrate Vert: 5=- (B), 9=-6	election of such cc of others. Standard of Live (balanced): asse=1.15 ads (lb/ft) =-70, 2-3=-70, 1-3= ed Loads (lb) 1485 (B), 6=-1485 41 (B), 10=-641 (B	Dunnectio Lumber =-20 (B), 7=-	n device(s) is Increase=1. 641 (B), 8=-6	s the 15, 641				STATE OF SCOT SEV	MISSOLAT T M. TER

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

> **MiTek**° 16023 Swingley Ridge Rd Chesterfield, MO 63017

PE-200101880

August 16,2022

E

SIONAL

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	P1	Piggyback	22	1	Job Reference (optional)	153666719

ID:uqRj0P_HI6_I3P0sgeIU?lynciu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-11-5 3-8-11 7-5-6 8-4-11 0-11-5 3-8-11 3-8-11 0-11-5 4x5 =

Run: 8,43 S Jan 6 2022 Print: 8,430 S Jan 6 2022 MiTek Industries. Inc. Mon Aug 15 13:48:20





7-5-6



Loading	((psf) 25.0	Spacing Plate Grin DOI	2-0-0		CSI TC	0.24	DEFL	in n/a	(loc)	l/defl	L/d 999	PLATES	GRIP 197/144
	-	10.0	Lumber DOI	1.15		BC	0.12	Vert(CT)	n/a	-	n/a	999	11120	107/111
BCLI		0.0*	Rep Stress Incr	YES		WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL		10.0	Code	IRC2018	B/TPI2014	Matrix-P	0101		0.00	•			Weight: 22 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wo 6-0-0 oc purli Rigid ceiling of bracing.	2 2 od shea ns. directly	athing directly applied applied or 10-0-0 oc	8) 9) or 10	Provide mee bearing plat 2 and 30 lb This truss is Internationa R802.10.2 a) See Standa Detail for Co consult qual	chanical conne e capable of w uplift at joint 4. designed in a I Residential C and referenced rd Industry Pig panection to ba ified building	ction (by oth ithstanding 2 ccordance w ode sections standard AN gyback Trus ase truss as a lesigner.	ers) of truss 25 lb uplift at 3 R502.11.1 at ISI/TPI 1. s Connection applicable, or	to joint and n r					
REACTIONS	(size) 2= Max Horiz 2= Max Uplift 2= Max Grav 2= (LC	7-5-6, 4 -27 (LC -25 (LC 222 (LC C 1)	=7-5-6, 6=7-5-6 13) 8), 4=-30 (LC 9) : 1), 4=222 (LC 1), 6=	LC 313	DAD CASE(S)	Standard								
FORCES	(lb) - Maximu Tension	m Com	pression/Maximum											

TOP CHORD 1-2=0/17, 2-3=-85/36, 3-4=-85/25, 4-5=0/17 BOT CHORD 2-6=0/37, 4-6=0/37 3-6=-220/28

WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. 2) II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc. 5)

chord and any other members.

- This truss has been designed for a 10.0 psf bottom 6) chord live load nonconcurrent with any other live loads.
- 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



Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	P2	Piggyback	2	1	Job Reference (optional)	153666720

2-2-8

2-4-0

-0-11-5 3-8-11 7-5-6 8-4-11 0-11-5 3-8-11 0-11-5 3-8-11 4x5 = 12 6 Г 3 2 4 5 ø A

6

7-5-6

2x4 🛛

Run: 8,43 S Jan 6 2022 Print: 8,430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:20

ID:uqRj0P_HI6_I3P0sgeIU?lynciu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:25.7

BOT CHORD

TOP CHORD

BOT CHORD

REACTIONS (size)

OTHERS

BRACING

2x4

Loading TCLL (roof) TCDI BCLL BCDL LUMBER TOP CHORD

								Ι	
bacing 2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
ate Grip DOL 1.15	ТС	0.24	Vert(LL)	n/a	-	n/a	999	MT20	197/144
mber DOL 1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
p Stress Incr YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
de IRC20 ²	18/TPI2014 Matrix-P							Weight: 22 lb	FT = 10%
ہ ع ۲	acing2-0-0te Grip DOL1.15nber DOL1.15o Stress IncrYESdeIRC20	acing 2-0-0 CSI te Grip DOL 1.15 TC nber DOL 1.15 BC p Stress Incr YES WB de IRC2018/TPI2014 Matrix-P	acing 2-0-0 CSI te Grip DOL 1.15 TC 0.24 nber DOL 1.15 BC 0.12 p Stress Incr YES WB 0.03 de IRC2018/TPI2014 Matrix-P	acing 2-0-0 CSI DEFL te Grip DOL 1.15 TC 0.24 Vert(LL) mber DOL 1.15 BC 0.12 Vert(CT) p Stress Incr YES WB 0.03 Horz(CT) de IRC2018/TPI2014 Matrix-P Horz(CT)	acing 2-0-0 CSI DEFL in te Grip DOL 1.15 TC 0.24 Vert(LL) n/a mber DOL 1.15 BC 0.12 Vert(CT) n/a p Stress Incr YES WB 0.03 Horz(CT) 0.00 de IRC2018/TPI2014 Matrix-P F Matrix-P Horz(CT) 0.00	acing 2-0-0 CSI DEFL in (loc) te Grip DOL 1.15 TC 0.24 Vert(LL) n/a - nber DOL 1.15 BC 0.12 Vert(CT) n/a - p Stress Incr YES WB 0.03 Horz(CT) 0.00 4 de IRC2018/TPI2014 Matrix-P	acing 2-0-0 CSI DEFL in (loc) l/defl te Grip DOL 1.15 TC 0.24 Vert(LL) n/a - n/a mber DOL 1.15 BC 0.12 Vert(CT) n/a - n/a p Stress Incr YES WB 0.03 Horz(CT) 0.00 4 n/a de IRC2018/TPI2014 Matrix-P - - - -	acing 2-0-0 CSI DEFL in (loc) l/defl L/d te Grip DOL 1.15 TC 0.24 Vert(LL) n/a - n/a 999 nber DOL 1.15 BC 0.12 Vert(CT) n/a - n/a 999 o Stress Incr YES WB 0.03 Horz(CT) 0.00 4 n/a n/a de IRC2018/TPI2014 Matrix-P - - - - -	acing 2-0-0 CSI DEFL in (loc) l/defl L/d PLATES te Grip DOL 1.15 TC 0.24 Vert(LL) n/a - n/a 999 MT20 mber DOL 1.15 BC 0.12 Vert(CT) n/a - n/a 999 p Stress Incr YES WB 0.03 Horz(CT) 0.00 4 n/a n/a de IRC2018/TPI2014 Matrix-P Vertice Vertice

- This truss is designed in accordance with the 2018 9) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

2x4 =

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/17, 2-3=-76/35, 3-4=-76/29, 4-5=0/17 BOT CHORD 2-6=0/31, 4-6=0/31

Max Horiz 2=-27 (LC 13)

(LC 1)

6-0-0 oc purlins.

bracing.

Structural wood sheathing directly applied or

2=7-5-6, 4=7-5-6, 6=7-5-6

Rigid ceiling directly applied or 10-0-0 oc

Max Uplift 2=-24 (LC 8), 4=-29 (LC 9) Max Grav 2=217 (LC 1), 4=217 (LC 1), 6=322

WEBS 3-6=-229/30

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc. 5) 6)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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.



2x4 =

Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V1	Valley	1	1	Job Reference (optional)	153666721

7-8-14

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:20 ID:uqRj0P_HI6_I3P0sgeIU?lynciu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

14-10-13





15-5-12





15-5-12

Scale = 1:33.9

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCDL		10.0	Code	IRC20	18/TPI2014	Matrix-S							Weight: 41 lb	FT = 10%
LUMBER TOP CHOF BOT CHOF OTHERS BRACING TOP CHOF BOT CHOF	 2x4 SPF 2x4 SPF 2x3 SPF 3x3 SPF 3x4 SPF <	No.2 No.2 No.2 I wood she purlins. ing directly	athing directly applie applied or 10-0-0 or	7 ed or c ^g	 * This truss I on the botton 3-06-00 tall I chord and at Provide mec bearing plate 8 and 55 lb to This truss is International 	has been design m chord in all ar by 2-00-00 wide ny other membe chanical connect e capable of wit uplift at joint 6. designed in acc Residential Co	ned for a liv reas where e will fit betw ers. tion (by oth hstanding 5 cordance w ide sections	e load of 20.0 a rectangle veen the botto ers) of truss t 6 lb uplift at j ith the 2018 R502.11.1 a	Opsf om to oint and					
REACTION	IS (size) Max Horiz Max Uplift Max Grav	1=15-5-12 7=15-5-12 1=44 (LC 6=-55 (LC 1=118 (LC (LC 22), 7 21)	2, 5=15-5-12, 6=15- 2, 8=15-5-12 8) 3), 8=-56 (LC 8) 5 1), 5=118 (LC 1), 6 (=301 (LC 1), 8=382	5-12, L 6=382 2 (LC	OAD CASE(S)	Standard		ISI/TPT 1.						
FORCES	(lb) - Max Tension	imum Com	pression/Maximum											
TOP CHOP	RD 1-2=-77/4 4-5=-64/3	1, 2-3=-10 39	6/66, 3-4=-106/55,											
BOT CHOP	RD 1-8=0/47	7-8=0/47,	6-7=0/47, 5-6=0/47											
WEBS	3-7=-222	/10, 2-8=-2	99/100, 4-6=-299/10	00										
NOTES		, -	,											
 Unbala this design (2) Wind: / Vasd=s II; Exp 	nced roof live sign. ASCE 7-16; Vu 91mph; TCDL= B; Enclosed; N	loads have llt=115mph ⊧6.0psf; BC /WFRS (en	been considered fo (3-second gust) DL=6.0psf; h=25ft; (ivelope) exterior zor	r Cat. ne;								E	TATE OF	MISSOL

cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 Truss designed for wind loads in the plane of the truss 3)

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)

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

SEVIER NUMBER PE-2001018807 PSSIONAL E August 16,2022



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V2	Valley	1	1	Job Reference (optional)	153666722

Run: 8,43 S Jan 6 2022 Print: 8,430 S Jan 6 2022 MiTek Industries. Inc. Mon Aug 15 13:48:20 ID:IP6rfR0921MtwtlRLmIBcxyncir-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



11-5-12

Scale	e = 1	:29.6	

Loading TCLL (roof) TCDL BCLL BCLL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.37 0.22 0.08	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: 28 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=11-5-12 Max Horiz 1=32 (LC	athing directly applie applied or 10-0-0 or 2, 3=11-5-12, 4=11-5	8) 9) ed or 5 5-12	Provide mec bearing plate 1 and 21 lb u This truss is International R802.10.2 a DAD CASE(S)	hanical connecti e capable of with plift at joint 3. designed in acc Residential Coo nd referenced st Standard	ion (by oth Istanding 1 ordance w de sections andard AN	ers) of truss 5 lb uplift at j ith the 2018 5 R502.11.1 a ISI/TPI 1.	to joint and					
	Max Uplift 1=-15 (LC Max Grav 1=218 (LC 4=492 (LC	C 8), 3=-21 (LC 9) C 21), 3=218 (LC 22) C 1)),										
FORCES TOP CHORD BOT CHORD WEBS	(lb) - Maximum Com Tension 1-2=-133/48, 2-3=-1: 1-4=0/53, 3-4=0/53 2-4=-336/44	pression/Maximum 33/45											
NOTES 1) Unbalance this design 2) Wind: ASC Vasd-91m	d roof live loads have E 7-16; Vult=115mph 	been considered for (3-second gust)	Dat										

II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) Truss designed for wind loads in the plane of the truss

- only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 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.





Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V3	Valley	1	1	Job Reference (optional)	153666723

3-8-14

3-8-14

Wheeler Lumber, Waverly, KS - 66871,

1-6-15

0-0-C

1-10-11

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:21 ID:mbgEsn1opLUkY1KdvUpQ98ynciq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-10-13

3-1-15



7-5-12

0-6-15

4x5 = 2 12 6 Г



7-5-12

Scale	- 1	1.2/ /	

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 18 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=7-5-12, Max Horiz 1=-20 (LC	athing directly applied applied or 10-0-0 oc 3=7-5-12, 4=7-5-12 3 (3)	8) Provide me bearing plat 1 and 17 lb 9) This truss is Internationa d or R802.10.2 a LOAD CASE(S)	chanical connect e capable of wi uplift at joint 3. designed in act l Residential Co and referenced) Standard	ction (by oth thstanding 1 ccordance w ode sections standard AN	ers) of truss 1 3 lb uplift at j ith the 2018 s R502.11.1 a NSI/TPI 1.	to oint and					
	Max Uplift 1=-13 (LC Max Grav 1=148 (LC (LC 1)	C 8), 3=-17 (LC 9) C 1), 3=148 (LC 1), 4=	=271									
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD	1-2=-71/28, 2-3=-71	/20										

BOT CHORD 1-4=0/29, 3-4=0/29 WEBS 2-4=-192/26

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. 2) II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 6)
- chord live load nonconcurrent with any other live loads. 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.

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

OF MISSO TE SCOTT M. SEVIER NUMBER OFFESSIONAL PE-2001018807 August 16,2022



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V4	Valley	1	1	Job Reference (optional)	153666724

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:21 ID:mbgEsn1opLUkY1KdvUpQ98ynciq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

i aye



Scale = 1:39.8

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (root)		25.0	Plate Grip DOL	1.15			0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
		10.0	Lumber DOL	1.15		BC	0.14	Vert(IL)	n/a	-	n/a	999		
BCLL		0.0^	Rep Stress Incr	YES		WB	0.10	Horiz(IL)	0.00	5	n/a	n/a		FT 400/
BCDL		10.0	Code	IRC20	18/TPI2014	Matrix-S							Weight: 35 lb	FT = 10%
LUMBER TOP CHORD 30T CHORD WEBS DTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF 2x4 SPF 2x3 SPF 2x3 SPF Structura 6-0-0 oc Rigid ceil bracing. (size)	No.2 No.2 No.2 I wood she purlins, exi ing directly 1=11-5-8, 7=11-5-8	athing directly applied cept end verticals. applied or 10-0-0 oc 5=11-5-8, 6=11-5-8,	e - - - - - - - - - - - - - - - - - - -	 6) * This truss on the botto 3-06-00 tall chord and a 7) Provide mee bearing plat 5, 52 lb uplif 8) This truss is Internationa R802.10.2 a LOAD CASE(S) 	has been designe m chord in all are by 2-00-00 wide v ny other members thanical connectic e capable of withs t at joint 6 and 44 designed in accco Residential Cod nd referenced sta Standard	ed for a liv as where will fit betw s, with BC on (by oth standing 1 Ib uplift a ordance w e sections andard AN	e load of 20.0 a rectangle veen the bott DL = 10.0psi ers) of truss i 3 lb uplift at j oint 7. ith the 2018 i R502.11.1 a ISI/TPI 1.	Opsf om f. to joint and					
	Max Uplift	5=-13 (LC (LC 8)	5), 6=-52 (LC 8), 7=	-44										
	Max Grav	1=129 (LC 6=436 (LC	C 16), 5=177 (LC 15), C 2), 7=338 (LC 2)											
FORCES	(lb) - Max Tension	kimum Com	pression/Maximum											
TOP CHORD	1-2=-136 4-5=-109	/57, 2-3=-1: /26	21/66, 3-4=-111/43,											
BOT CHORD WEBS	1-7=-53/4 3-6=-311	41, 6-7=-53 /99, 2-7=-2	/41, 5-6=-53/41 55/88											
NOTES														The second second
1) Wind: AS Vasd=91r II; Exp B; cantilever right expo	CE 7-16; Vu mph; TCDL= Enclosed; N feft and right sed: Lumbe	Ilt=115mph =6.0psf; BC /IWFRS (en nt exposed	(3-second gust) DL=6.0psf; h=25ft; C- ivelope) exterior zone ; end vertical left and 0 plate grip DOL =1 60	at. e;								B	STATE OF	MISSOLATIT M.

 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) Gable requires continuous bottom chord bearing.

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

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.





Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V5	Valley	1	1	Job Reference (optional)	153666725

Run: 8,43 S Jan 6 2022 Print: 8,430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:21 ID:mbgEsn1opLUkY1KdvUpQ98ynciq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





S

Scale = 1:31.6												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 lb	FT = 10%
LUMBER			7) Provide m	echanical connec	ction (by oth	ers) of truss t	to					
TOP CHORD	2x4 SPF No.2		bearing pla	ate capable of wit	thstanding 9) Ib uplift at jo	int 4					
BOT CHORD	2x4 SPF No.2		and 60 lb	uplift at joint 5.								
WEBS	2x3 SPF No.2		This truss	is designed in ac	cordance w	ith the 2018						
OTHERS	2x3 SPF No.2		Internation	al Residential Co	ode sections	R502.11.1 a	and					

8-9-8

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **REACTIONS** (size) 1=8-9-8, 4=8-9-8, 5=8-9-8 Max Horiz 1=119 (LC 5) Max Uplift 4=-9 (LC 5), 5=-60 (LC 8) Max Grav 1=145 (LC 1), 4=128 (LC 1), 5=456 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-97/81, 2-3=-103/38, 3-4=-100/26

BOT CHORD 1-5=-41/31, 4-5=-41/31 WEBS 2-5=-354/121 NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing. 3)
- 4) Gable studs spaced at 4-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 6) 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.

OF MISS TE 0 SCOTT M. SEVIER NUMBER OFFESSIONAL PE-200101880 August 16,2022



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V6	Valley	1	1	Job Reference (optional)	153666726

Run: 8,43 S Jan 6 2022 Print: 8,430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:21

Page: 1



BRACING		
TOP CHORD	Structura	wood sheathing directly applied or
	6-2-0 oc p	ourlins, except end verticals.
BOT CHORD	Rigid ceil	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	1=6-1-8, 3=6-1-8
	Max Horiz	1=80 (LC 5)
	Max Uplift	1=-3 (LC 8), 3=-23 (LC 8)
	Max Grav	1=244 (LC 1), 3=244 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-2=-89/6	8, 2-3=-190/55

TOP CHORD BOT CHORD 1-3=-27/21

NOTES

Scale = 1:28 Loading

TCLL (roof)

TCDI

BCLL

BCDL

WEBS

LUMBER

TOP CHORD

BOT CHORD

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 2) 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. 3)
- 4) Gable studs spaced at 4-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 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. Provide mechanical connection (by others) of truss to 7) bearing plate capable of withstanding 3 lb uplift at joint 1 and 23 lb uplift at joint 3.

OF MISS TE SCOTT M. SEVIER NUMBER OFFESSIONAL PE-2001018807 August 16,2022

GRIP

197/144

FT = 10%



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V7	Valley	1	1	Job Reference (optional)	153666727

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:21 ID:mbgEsn1opLUkY1KdvUpQ98ynciq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



3-5-8

Scale = 1:20

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	ТС	0.13	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 9 lb	FT = 10%
			8) This trues is		ordance w	ith the 2018					L	
	2v4 SPE No 2		Internationa	I Residential Cor	de sections	R502 11 1 2	and					
BOT CHORD	2x4 SFF No.2 2x4 SPF No.2		R802 10 2 ;	and referenced st	tandard AN	ISI/TPI 1	ana					
WERS	2x3 SPF No 2			Standard								
REACING	2.0 011 10.2		LOAD CASE(S	Januaru								
	Structural wood cho	athing directly appli	od or									
TOP CHORD		auting unecuy applic										
	Digid coiling directly	cept end verticals.	-									
BOT CHORD	bracing.	applied of 10-0-0 of										
REACTIONS	(size) 1=3-5-8, 3	3=3-5-8										
	Max Horiz 1=41 (LC	5)										
	Max Uplift 1=-1 (LC	8), 3=-12 (LC 8)										
	Max Grav 1=124 (LC	C 1), 3=124 (LC 1)										
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD	1-2=-46/35, 2-3=-97	/28										
BOT CHORD	1-3=-14/11											
NOTES												
1) Wind: AS	CE 7-16: Vult=115mph	(3-second gust)										
Vasd=91n	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; (Cat.									
II; Exp B;	Enclosed; MWFRS (er	velope) exterior zor	ie:									
cantilever	left and right exposed	; end vertical left an	d									
right expo	sed; Lumber DOL=1.6	0 plate grip DOL=1.	60									
2) Truss des	signed for wind loads ir	n the plane of the tru	SS								5	ATTE
only. For	studs exposed to wind	(normal to the face)	,								6 OI	MICh
see Stand	lard Industry Gable En	d Details as applical	ole,								ALEUI	MILS'S
or consult	qualified building desig	gner as per ANSI/TF	ข 1.								AN	N.S.
3) Gable req	juires continuous botto	m chord bearing.								4	SCC SCC	DTT M. CR.V
4) Gable stu	ds spaced at 2-0-0 oc.									H	SE	EVIER V
5) This truss	has been designed for	r a 10.0 pst bottom	J.,							Ø.	↓ ³¹	
cnora live	ioau nonconcurrent wi	im any other live loa	us.							8	ôl,	0
on the het	s nas been designed f	or a live load of 20.0	ipsi							V/	1 ++7	Xandento
	ll by 2 00 00 wide will	fit botwoon the bott	m							X	ZIONNU	MEBER
chord and	an by 2-00-00 wide Will	in between the boll								X)	O PE-20	01018807
7) Provide m	echanical connection	(by others) of trues t	n							N N	150	18A
bearing pl	ate capable of withstar	nding 1 lb uplift at ioi	nt 1								W Ser	NO'A
and 12 lb	uplift at joint 3.										ANON	IAL EL
aa . _ 10											an	

August 16,2022



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V8	Valley	1	1	Job Reference (optional)	153666728

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:22 ID:mbgEsn1opLUkY1KdvUpQ98ynciq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.8

		1											
Loading	(psf)	Spacing	1-9-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-R							Weight: 25 lb	FT = 10%
LUMBER			7)	* This truss h	nas been designe	ed for a liv	e load of 20.	0psf					
TOP CHORD	2x4 SPF No.2		,	on the bottor	n chord in all area	as where	a rectangle	•					
BOT CHORD	2x4 SPF No.2			3-06-00 tall b	y 2-00-00 wide w	vill fit betw	een the bott	om					
WEBS	2x4 SPF No.2 *Exce	ept* 4-5:2x3 SPF No	.2	chord and ar	y other members	3.							
OTHERS	2x3 SPF No.2		8)	Provide mec	hanical connectio	on (by oth	ers) of truss	to					
BRACING													
TOP CHORD	Structural wood she	athing directly appli	ed or	7, 5 lb uplift a	at joint 5 and 55 l	b uplift at	joint 6.						
	6-0-0 oc purlins, ex	cept end verticals.	9)	This truss is	designed in acco	rdance w	ith the 2018						
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	с	International	Residential Code	e sections	R502.11.1 a	and					
	bracing.			R802.10.2 a	nd referenced sta	andard AN	151/TPLT.						
REACTIONS	(size) 5=7-2-0,	6=7-2-0, 7=7-2-0	LC	DAD CASE(S)	Standard								
	Max Horiz 7=116 (Le	C 5)											
	Max Uplift 5=-5 (LC	5), 6=-55 (LC 8), 7=	-2 (LC										
	4)												
	Max Grav 5=132 (LC 1)	C 1), 6=287 (LC 1),	7=239										
FORCES	(Ib) - Maximum Con	pression/Maximum											
TOROLO	Tension	ipression/maximum											
TOP CHORD	2-7=-212/14. 1-2=0/	/51. 2-3=-91/40.											
	3-4=-87/35, 4-5=-10	2/23											
BOT CHORD	6-7=-35/28, 5-6=-35	6/28											
WEBS	3-6=-224/88												
NOTES													
1) Wind: AS	CE 7-16; Vult=115mph	(3-second gust)										~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	100
Vasd=91	mph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft;									OF	MIG	
II; Exp B;	Enclosed; MWFRS (er	nvelope) exterior zoi	ne;									BIE	W Scim
cantileve	r left and right exposed	; end vertical left an	id oo									9 AT	N.S.
right expo	osea; Lumper DOL=1.6	o plate grip DOL=1.	60								Å	SCO'	IT M. VEN
I russ de only Eor	signed for wind loads i	n the plane of the tru) SS								1	SE	VIER \ Y

- oniy as expose d 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) Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely 4)

braced against lateral movement (i.e. diagonal web). Gable studs spaced at 4-0-0 oc. 5)

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. OFFESSIONAL E August 16,2022



NUMBER

PE-2001018807

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V9	Valley	1	1	Job Reference (optional)	153666729

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:22 ID:mbgEsn1opLUkY1KdvUpQ98ynciq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27.9

Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	1-9-0 1.15 1.15 YES	CSI TC BC WB	0.54 0.29 0.00	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 197/144
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood she 6-4-0 oc purlins, ez Rigid ceiling directly bracino.	eathing directly applicept end verticals.	8) This truss is International R802.10.2 a LOAD CASE(S) ed or	designed in accord Residential Code s nd referenced stand Standard	ance w sections dard AN	ith the 2018 R502.11.1 a ISI/TPI 1.	Ind					
REACTIONS	(size) 1=6-3-8, Max Horiz 1=72 (LC Max Uplift 1=-2 (LC Max Grav 1=220 (L	3=6-3-8 5) 8), 3=-21 (LC 8) C 1), 3=220 (LC 1)										
FORCES	(lb) - Maximum Cor	npression/Maximum										
TOP CHORD BOT CHORD	Tension 1-2=-81/61, 2-3=-17 1-3=-25/19	71/50										
NOTES												
 Wind: ASV Vasd=91r II; Exp B; cantilever right expc Truss de: only. For see Stanc or consult 	CE 7-16; Vult=115mpl mph; TCDL=6.0psf; BC Enclosed; MWFRS (e left and right exposed sed; Lumber DOL=1.6 signed for wind loads studs exposed to wind and Industry Gable Er qualified building des	h (3-second gust) CDL=6.0psf; h=25ft; nvelope) exterior zo ; end vertical left ar 30 plate grip DOL=1. n the plane of the trr d (normal to the face d Details as application igner as per ANSI/T	Cat. ne; nd 60 uss e), ble, PI 1.								TE OF	MISSOL
3) Gable reg	uires continuous botto	m chord bearing.								E	SCOT	TT M X
 Gable stu This truck 	ds spaced at 4-0-0 oc	ar a 10.0 pef hottom								A	SEV	TER Y
chord live	load nonconcurrent w	ith any other live loa	ads.							BO	*/	. 8 1 * 1
 6) * This trus on the bot 3-06-00 ta chord and 7) Provide m bearing p¹ and 21 lb 	chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 1 and 21 lb uplift at joint 3.											

August 16,2022



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V10	Valley	1	1	Job Reference (optional)	153666730

3-7-8

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:22 ID:uqRj0P_HI6_I3P0sgelU?Iynciu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

ra





Scale -	- 1.20 4
ocale -	- 1.20.4

3-7-8	

Loading	(psf)	Spacing	1-9-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	197/144
	10.0	Lumber DOL	1.15		BC	0.07	Vert(IL)	n/a	-	n/a	999		
	0.0^	Rep Stress Incr	YES	/TDI004.4	VVB	0.00	Horiz(IL)	0.00	3	n/a	n/a	Mainht Olk	FT 400/
BCDL	10.0	Code	IRC2018	/1912014	Matrix-P							weight: 9 lb	FI = 10%
LUMBER			8)	This truss is	designed in accord	lance w	ith the 2018						
TOP CHORD	2x4 SPF No.2			International	Residential Code s	sections	R502.11.1 a	nd					
BOT CHORD	2x4 SPF No.2			R802.10.2 ai	nd referenced stand	dard AN	ISI/TPI 1.						
WEBS	2x3 SPF No.2		LO	AD CASE(S)	Standard								
	Other attacks and all a	a the inclusion of the second in											
IOP CHORD	2 8 0 oc purling	eatning directly applie	ed or										
	Rigid ceiling directly	applied or 10-0-0 or											
Set energy	bracing.		•										
REACTIONS	(size) 1=3-7-8, 3	3=3-7-8											
	Max Horiz 1=38 (LC	7)											
	Max Uplift 1=-1 (LC	8), 3=-11 (LC 8)											
	Max Grav 1=115 (L0	C 1), 3=115 (LC 1)											
ORCES	(Ib) - Maximum Con	npression/Maximum											
	1-2=-42/32 2-3=-90)/26											
BOT CHORD	1-3=-13/10	<i>"</i> 20											
NOTES													
1) Wind: ASC	CE 7-16: Vult=115mph	(3-second aust)											
Vasd=91m	ph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; C	Cat.										
II; Exp B; E	Enclosed; MWFRS (er	nvelope) exterior zon	e;										
cantilever l	left and right exposed	; end vertical left and	b										
right expos	sed; Lumber DOL=1.6	0 plate grip DOL=1.6	50										
 I russ des only For s 	igned for wind loads li	n the plane of the tru	SS									000	m
see Standa	ard Industry Gable En	d Details as applicat	, Ne									OF	MISC
or consult	qualified building desi	igner as per ANSI/TF	911.									ASE	-20 M
3) Gable requ	uires continuous botto	m chord bearing.									E	7.55/ 500	M AV MTT
4) Gable stud	ls spaced at 2-0-0 oc.										B		
5) This truss	has been designed fo	r a 10.0 psf bottom									R.	A SE	
chord live l	load nonconcurrent w	ith any other live load	JS.								8		
on the hott	s has been designed t	where a rectangle	psr								X	Low?	Eny h)
3-06-00 tal	ll by 2-00-00 wide will	fit between the botto	m							•	- W	MUN /	ABER
chord and	any other members.										V.	ON PE-200	1018807
7) Provide me	echanical connection	(by others) of truss to	D									A B	158
bearing pla	ate capable of withsta	nding 1 lb uplift at joi	nt 1									W SIGN	IL EN
and 11 lb u	uplift at joint 3.											O'N	AL
												na na	101

August 16,2022



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V11	Valley	1	1	Job Reference (optional)	153666731

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:22 ID:qDYTR5?XHkE0JjAFn3ny4jyncis-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale =	1:55.8
---------	--------

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

-													
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.48	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.35	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-R							Weight: 58 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood shea 6-0-0 oc purlins, exc Rigid ceiling directly bracing. 1 Row at midpt (size) 7=15-2-8, 10=15-2-8 Max Horiz 11=265 (L Max Uplift 7=-24 (LC (LC 8), 10 Max Grav 7=179 (LC 9=400 (LC 11=335 (L	athing directly applie cept end verticals. applied or 10-0-0 oc 6-7 8=15-2-8, 9=15-2-8 3, 11=15-2-8 .C 5) 5, 8=-54 (LC 8), 9= =-132 (LC 8) C 15), 8=474 (LC 2), C 1, 10=336 (LC 15) .C 16)	4) 5) 6) 7) ed or 5 8) , 9) =-31 LO	Truss to be f braced again Gable studs This truss ha chord live loa * This truss f on the bottor 3-06-00 tall b chord and ar Provide mec bearing plate 7, 54 lb uplift uplift at joint This truss is International R802.10.2 ar	Matrix-R e fully sheathed from one face or securely ainst lateral movement (i.e. diagonal web). Is spaced at 4-0-0 oc. has been designed for a 10.0 psf bottom load nonconcurrent with any other live loads. Is has been designed for a live load of 20.0psf om chord in all areas where a rectangle I by 2-00-00 wide will fit between the bottom any other members, with BCDL = 10.0psf. echanical connection (by others) of truss to ate capable of withstanding 24 lb uplift at joint lift at joint 8, 31 lb uplift at joint 9 and 132 lb nt 10. is designed in accordance with the 2018 al Residential Code sections R502.11.1 and and referenced standard ANSI/TPI 1. S) Standard								
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	2-11=-262/15, 1-2=0 3-4=-160/76, 4-5=-1 6-7=-110/27)/57, 2-3=-221/62, 50/76, 5-6=-132/66,										Contraction of the second	April 1
BOT CHORD	10-11=-88/67, 9-10= 7-8=-88/67	-88/67, 8-9=-88/67,									J.	TEOT	MISSOL
WEBS	5-8=-305/84, 4-9=-28	85/92, 3-10=-228/13	3								A	SCO.	TT M. YEN
NOTES											U	SEV	TER Y
 Wind: AS Vasd=91r II; Exp B; cantilever right expo Truss det only. For see Stand or consult Gable req 	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BCI Enclosed; MWFRS (en left and right exposed bsed; Lumber DOL=1.60 signed for wind loads in studs exposed to wind dard Industry Gable End t qualified building desig quires continuous bottor	(3-second gust) DL=6.0psf; h=25ff; C ivelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 h the plane of the tru (normal to the face) d Details as applicat gner as per ANSI/TP m chord bearing.	Cat. d 60 ss , ple, Pl 1.									NUN PE-200	IBER 1018807 E

- 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) Gable requires continuous bottom chord bearing.



August 16,2022

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V12	Valley	1	1	Job Reference (optional)	153666732

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:22 ID:qDYTR5?XHkE0JjAFn3ny4jyncis-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Sca	le = '	1.48.5	

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

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15		тс	0.34	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.13	Horiz(TL)	0.00	12	n/a	n/a		
BCDL		10.0	Code	IRC201	3/TPI2014	Matrix-S							Weight: 66 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SPF 2x4 SPF 2x3 SPF 2x3 SPF Structura 6-0-0 oc Rigid ceil bracing.	No.2 No.2 No.2 No.2 I wood shea purlins, exi ing directly	athing directly applie cept end verticals. applied or 6-0-0 oc	1) 2) d or 3)	 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. All plates are 2x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing. Gable studs spaced at 2-0-0 oc. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 12, 45 lb uplift at joint 13, 30 lb uplift at joint 12, 45 lb uplift at joint 14, 22 lb uplift at joint 15, 25 lb uplift at joint 12, 45 lb uplift at joint 16, 20 lb uplift at joint 									
REACTIONS	(size) Max Horiz Max Uplift Max Grav	1=15-2-8, 14=15-2-8 17=15-2-8 1=217 (LC 12=-57 (L 14=-30 (L 16=-25 (L 18=-36 (L 1=135 (LC 13=62 (LC 15=178 (L	12=15-2-8, 13=15-2 3, 15=15-2-8, 16=15- 3, 18=15-2-8 C 5), 13=-45 (LC 4), C 8), 15=-22 (LC 8), C 8), 15=-20 (LC 8), C 8), 17=-20 (LC 1), C 10, 12=256 (LC 1), C 1), 14=184 (LC 1), C 1), 16=188 (LC 1), C 1), 18=270 (LC 1), C 1), 18=2	(-8, 5) 2-8, 6) 7) , 8)										
FORCES	(lb) - Max Tension	timum Com	pression/Maximum	9)	17 and 36 lb This truss is	uplift at joint 18. designed in accor	dance wi	th the 2018	nd					alle
TOP CHORD	1-2=-188/ 4-5=-128/ 8-9=-102/	/64, 2-3=-1 /47, 5-6=-1 /68, 9-10=-	60/41, 3-4=-142/49, 17/47, 6-8=-110/58, 70/41, 10-11=-34/30	LC	R802.10.2 and referenced standard ANSI/TPI 1.									MISSOL
BOT CHORD	1-18=-74, 15-16=-7- 12-13=-7-	/56, 17-18= 4/56, 14-15 4/56, 11-12	-74/56, 16-17=-74/5 =-74/56, 13-14=-74/ =-74/56	6, 56,								B	★ SCO	/IER
WEBS 9-12=-116/68, 8-13=-70/41, 6-14=-138/56, 5-15=-140/46, 4-16=-145/49, 3-17=-119/41, 2-18=-202/67											ł	Forther	IBER VILLE	
NATES												v	C TE-200	

NOTES

August 16,2022

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



BSSIONAL ET

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V13	Valley	1	1	Job Reference (optional)	153666733

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:23 ID:qDYTR5?XHkE0JjAFn3ny4jyncis-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.7

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15		TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.13	Horiz(TL)	0.00	5	n/a	n/a		
BCDL		10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 40 lb	FT = 10%
LUMBER				6)	* This truss I	nas been designe	ed for a liv	e load of 20.	0psf					
TOP CHORD	2x4 SPF	No.2			on the bottor	n chord in all are	eas where	a rectangle						
BOT CHORD	2x4 SPF	No.2			3-06-00 tall I	by 2-00-00 wide	will fit bety	veen the bott	om					
WEBS	2x3 SPF	No.2			chord and ar	ny other member	s, with BC	DL = 10.0ps	f.					
OTHERS	2x3 SPF	No.2		7)	Provide med	hanical connecti	on (by oth	ers) of truss	to					
BRACING					bearing plate	e capable of with	standing 1	5 lb uplift at	joint					
TOP CHORD	Structura	al wood she	athing directly applie	ed or	5, 50 lb uplif	t at joint 6 and 55	b lb uplift a	t joint 7.						
	6-0-0 oc	purlins, ex	cept end verticals.	8)	This truss is	designed in acco	ordance w	ith the 2018						
BOT CHORD	 Rigid cei bracing. 	ling directly	applied or 10-0-0 o	с	R802.10.2 a	Residential Cod nd referenced st	e sections andard AN	SR502.11.1 a ISI/TPI 1.	and					
REACTIONS	(size)	1=12-10-0 7=12-10-0	0, 5=12-10-0, 6=12- 0	10-0, LC	DAD CASE(S)	Standard								
	Max Horiz	1=178 (1 (- C 5)											
	Max Uplift	5=-15 (LC	C 5), 6=-50 (LC 8), 7	=-55										
	Max Grav	1=189 (L0 6=424 (L0	C 16), 5=182 (LC 15 C 2), 7=423 (LC 2)	5),										
FORCES	(lb) - Ma: Tension	ximum Corr	pression/Maximum											
TOP CHORD) 1-2=-150 4-5=-111)/77, 2-3=-1 /27	31/63, 3-4=-115/48,											
BOT CHORD WEBS) 1-7=-60/- 3-6=-296	47, 6-7=-60 6/92, 2-7=-3	/47, 5-6=-60/47 15/107											
NOTES														
1) Wind AS	CF 7-16. VI	ult=115mph	(3-second aust)										600	man
Vasd=91	mph: TCDI :	=6 0psf [·] BC	DI = 6.0 psf h = 25 ft	Cat									A OF	MISC
II: Exp B:	Enclosed: I	MWFRS (er	velope) exterior zor	ne:									ASU	W.O.
cantilever	r left and rig	ht exposed	; end vertical left an	id .								F	7.51 000	West I
right expo	osed; Lumbe	er DOL=1.6	0 plate grip DOL=1.	60								4	s/ sco	
2) Truss de	signed for v	vind loads in	n the plane of the tru	JSS								B	. / SE	VIEK $/ N$
only. For	studs expo	sed to wind	(normal to the face),								R a	★/	S \★Ν
see Stand	dard Industr	y Gable En	d Details as applical	ble,									Att	Valor II. A

Gable studs spaced at 4-0-0 oc. 4) 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

or consult qualified building designer as per ANSI/TPI 1.

Gable requires continuous bottom chord bearing.

3)

MiTek° 16023 Swingley Ridge Rd Chesterfield, MO 63017

NUMBER

PE-2001018807

August 16,2022

PE-

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V14	Valley	1	1	Job Reference (optional)	153666734

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:23 ID:qDYTR5?XHkE0JjAFn3ny4jyncis-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:37.1

		-											
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.39	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.10	Horiz(TL)	0.00	4	n/a	n/a		
3CDL	10.0	Code	IRC2018/	TPI2014	Matrix-S							Weight: 30 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS DTHERS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing.	athing directly applie cept end verticals. applied or 10-0-0 or	7) 8) ed or LOA	Provide mecl bearing plate 4 and 72 lb u This truss is International R802.10.2 ar AD CASE(S)	hanical connec e capable of wit iplift at joint 5. designed in ac Residential Co nd referenced s Standard	tion (by oth hstanding 1 cordance w de sections standard AN	ers) of truss i 2 lb uplift at j th the 2018 R502.11.1 a ISI/TPI 1.	to joint and					
REACTIONS	(size) 1=10-2-0,	4=10-2-0, 5=10-2-0)										
	Max 1012 1=139 (LC	5) 5–-72 (I C 8)											
	111ax Opint 4=-12 (LC	$J_{J_1}, J_{-12} (LO 0)$											

10-2-0

Max Grav 1=203 (LC 1), 4=106 (LC 1), 5=544 (LC 1) FORCES (Ib) - Maximum Compression/Maximum Tension

 TOP CHORD
 1-2=-115/99, 2-3=-112/38, 3-4=-85/23

 BOT CHORD
 1-5=-47/36, 4-5=-47/36

 WEBS
 2-5=-410/131

- NOTES
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 4-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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.





Page: 1

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V15	Valley	1	1	Job Reference (optional)	153666735

Run: 8,43 S Jan 6 2022 Print: 8,430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:23 ID:qDYTR5?XHkE0JjAFn3ny4jyncis-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



S

WEBS

OTHERS

BRACING

TOP CHORD

BOT CHORD

FORCES

WEBS

NOTES

TOP CHORD

BOT CHORD

REACTIONS (size)

Scale = 1:29									I			
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 21 lb	FT = 10%
LUMBER			7) Provide me	chanical connec	ction (by oth	ers) of truss	to					
TOP CHORD	2x4 SPF No.2		bearing pla	te capable of wit	thstanding 7	lb uplift at jo	oint 4					
BOT CHORD	2x4 SPF No.2		and 51 lb u	plift at joint 5.								

7-6-0

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

Gable requires continuous bottom chord bearing. 3)

2x3 SPF No.2

2x3 SPF No.2

Max Horiz 1=100 (LC 5)

(LC 1)

1-5=-34/26, 4-5=-34/26

bracing.

Max Grav

Tension

2-5=-302/103

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

1=7-6-0, 4=7-6-0, 5=7-6-0

1=89 (LC 16), 4=140 (LC 1), 5=389

Rigid ceiling directly applied or 10-0-0 oc

Max Uplift 4=-7 (LC 5), 5=-51 (LC 8)

(lb) - Maximum Compression/Maximum

1-2=-84/62, 2-3=-95/40, 3-4=-109/25

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

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 6) 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.

OF MISSO TE SCOTT M. SEVIER NUMBER NORRESSIONAL PE-2001018807 F August 16,2022



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V16	Valley	1	1	Job Reference (optional)	153666736

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:23 ID:IP6rfR0921MtwtlRLmIBcxyncir-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale	- 1	.55	

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

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15		TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.42	Horiz(TL)	0.00	8	n/a	n/a		
BCDL		10.0	Code	IRC20	18/TPI2014	Matrix-S							Weight: 70 lb	FT = 10%
LUMBER				3) All plates are	2x4 MT20 unless	otherwi	se indicated.						
TOP CHORD	2x4 SPF N	0.2		4) Gable requir	es continuous bott	om chor	d bearing.						
BOT CHORD	2x4 SPF N	0.2		5) Gable studs	spaced at 4-0-0 oc) .							
WEBS	2x4 SPF N	0.2		6) This truss ha	s been designed f	or a 10.0	0 psf bottom						
OTHERS	2x3 SPF N	0.2		_	chord live loa	ad nonconcurrent v	with any	other live loa	ids.					
BRACING				7) * This truss h	as been designed	for a liv	e load of 20.0	Opsf					
TOP CHORD	Structural v 6-0-0 oc pu	wood shea urlins, exc	athing directly applie cept end verticals.	ed or	on the bottor 3-06-00 tall b	n chord in all areas by 2-00-00 wide wi	s where Il fit betv	a rectangle	om					
BOT CHORD	Rigid ceilin bracing.	g directly	applied or 10-0-0 or	c e	chord and ar) Provide mec	y other members, hanical connection	with BC toy oth	DL = 10.0pst ers) of truss t	f. tO					
WEBS	1 Row at m	nidpt	7-8		earing plate	capable of withsta	anding 2	to ib upilit at j	oint					
REACTIONS	(size)	1=19-6-0, 10=19-6-0	8=19-6-0, 9=19-6-0 11=19-6-0, 12=19), I-6-0	at joint 11 an	d 46 lb uplift at join	nt 12.	111 10, 40 ID U	ipiin					
	Max Horiz	1=275 (LC	2 5)) I his truss is	designed in accord	dance w	ith the 2018						
	Max Uplift 8	8=-25 (LC	5), 9=-52 (LC 8), 10	0=-46	International	Residential Code	sections	S R502.11.1 a	ina					
	((LC 8), 11 8)	=-48 (LC 8), 12=-46	^{6 (LC}	OAD CASE(S)	Standard	iuaru Ar	NSI/TFTT.						
	Max Grav	1=158 (LC 9=464 (LC 11=397 (L	C 16), 8=182 (LC 15 C 2), 10=424 (LC 2), LC 2), 12=350 (LC 2)), ,)										
FORCES	(lb) - Maxin Tension	num Com	pression/Maximum											
TOP CHORD	1-2=-240/7 4-6=-156/7	0, 2-3=-20 7, 6-7=-13	08/75, 3-4=-174/73, 37/72, 7-8=-110/29											Jone
BOT CHORD	1-12=-93/7 9-10=-93/7	2, 11-12= 2, 8-9=-93	-93/72, 10-11=-93/7 3/72	72,									TE OF	MISSO
WEBS	6-9=-303/8 2-12=-264/	3, 4-10=-2 90	274/99, 3-11=-285/9	96,								A	S SCO	TT M. T
NOTES												U	SEV	
1) Wind: AS(CE 7-16: Vult	=115mph	(3-second gust)									Na	×	
Vasd=91n	nph; TCDL=6	.0psf; BCI	DL=6.0psf; h=25ft; 0	Cat.									ants	SOM
II; Exp B; I	Enclosed; MV	VFRS (en	velope) exterior zon	ne;								and the	NUN	IBER A
cantilever	left and right	exposed ;	; end vertical left and	d								N	PE-200	1018807
right expo	sed; Lumber	DOL=1.60	0 plate grip DOL=1.6	60								X	A may	A A
Truss des	signed for win	nd loads in	the plane of the tru	ISS									NºSe.	O'H
only. For	studs expose	ed to wind	(normal to the face)),									VON.	ALES
see Stand	and industry (Gable End		טופ, ז וכ									an	TOTO
or consult	quaimed buil	ung desig	gner as per ANSI/TF	-11.									Augus	t 16,2022



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V17	Valley	1	1	Job Reference (optional)	153666737

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:23 ID:IP6rfR0921MtwtIRLmIBcxyncir-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:54.5

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.49 0.25 0.37	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 6	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 62 lb	GRIP 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood sh 6-0-0 oc purlins, e Rigid ceiling direct bracing. 1 Row at midpt (size) 1=18-4- 8=18-4- Max Horiz 1=258 (Max Uplift 6=-23 ((LC 8), 5 Max Grav 1=260 (7=490 ((LC 2))	teathing directly appli except end verticals. ly applied or 10-0-0 c 5-6 0, 6=18-4-0, 7=18-4-0 0, 9=18-4-0 LC 5) LC 5), 7=-54 (LC 8), 8 3=-71 (LC 8) LC 16), 6=177 (LC 19 LC 2), 8=353 (LC 2),	5; ied or 7; oc 8; 0, L 3=-38 5), 9=558	 This truss ha chord live loa * This truss h on the bottor 3-06-00 tall chord and ar Provide mec bearing plate 6, 54 lb uplift uplift at joint This truss is International R802.10.2 ar OAD CASE(S) 	s been designed fr ad nonconcurrent v has been designed n chord in all areas by 2-00-00 wide will by other members, hanical connection a capable of withsta at joint 7, 38 lb up 9. designed in accord Residential Code and referenced stan Standard	or a 10.0 with any for a liv s where Il fit betw with BC ((by oth- anding 2 lift at joi dance with sections dard AN) psf bottom other live loa e load of 20.0 a rectangle veen the botth DL = 10.0psf ers) of truss t 3 lb uplift at j nt 8 and 71 lt ith the 2018 R502.11.1 a ISI/TPI 1.	ids. Dpsf om f. io oint o nd						
FORCES	(lb) - Maximum Co Tension	mpression/Maximum	1											
TOP CHORD	1-2=-219/108, 2-3= 4-5=-133/67, 5-6=-	=-176/61, 3-4=-149/8 ·108/27	1,									~	~	
BOT CHORD	1-9=-88/67, 8-9=-8 6-7=-88/67	8/67, 7-8=-88/67,										G OF	MISS	
WEBS	4-7=-318/87, 3-8=-	231/86, 2-9=-403/13	2									A AL	N'SOC	
NOTES 1) Wind: ASC Vasd=91m II; Exp B; E cantilever right expos 2) Truss des only. For see Stand. or consult 3) Gable requ 4) Gable students	CE 7-16; Vult=115mp ph; TCDL=6.0psf; B Enclosed; MWFRS (i left and right expose sed; Lumber DCL=1. signed for wind loads studs exposed to wir ard Industry Gable E qualified building de: uires continuous bott ds spaced at 4-0-0 of	th (3-second gust) CDL=6.0psf; h=25ft; envelope) exterior zo d; end vertical left ar 60 plate grip DDL=1. in the plane of the tr rd (normal to the face nd Details as applica signer as per ANSI/T om chord bearing. C.	Cat. ne; nd .60 uss e), bble, PI 1.									SEV SEV NUM PE-200 August	TT M. TER 1018807 AL ENGL 16,2022	



Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V18	Valley	1	1	Job Reference (optional)	153666738

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:24 ID:IP6rfR0921MtwtlRLmIBcxyncir-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:48.6

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20 ²	8/TPI2014	CSI TC BC WB Matrix-S	0.36 0.17 0.23	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 6	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 51 lb	GRIP 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF 1 2x3 SPF 1 2x3 SPF 1 2x3 SPF 1 Structural 6-0-0 oc p Rigid ceili bracing. (size) Max Horiz Max Uplift Max Grav	No.2 No.2 No.2 No.2 No.2 No.2 No.2 No.2	athing directly applie sept end verticals. applied or 10-0-0 oc 9=15-8-0, 7=15-8-0 9=15-8-0 ; 7) 5), 7=-52 (LC 8), 8= -47 (LC 8) ; 16), 6=178 (LC 15) ; 2), 8=384 (LC 2), 9	6 7 d or 8 ; , 9 47 L , ,	 This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and an Provide mech bearing plate 6, 52 lb uplift uplift at joint 1 This truss is International R802.10.2 ar DAD CASE(S) 	s been designed fo d nonconcurrent w as been designed n chord in all areas y 2-00-00 wide wil y other members, nanical connection capable of withsta at joint 7, 47 lb up 9. designed in accord Residential Code s nd referenced stand Standard	or a 10.0 vith any for a liv where I fit betw with BC (by oth unding 1 lift at joi lance w sections dard AN) psf bottom other live load e load of 20.0 a rectangle reen the botto DL = 10.0psf ers) of truss t 9 lb uplift at ju tt 8 and 47 lb th the 2018 R502.11.1 a SI/TPI 1.	ds.)psf om o oint o nd					
FORCES	(lb) - Max Tension	imum Com	pression/Maximum											
TOP CHORD	1-2=-191/ 4-5=-124/	68, 2-3=-15 58, 5-6=-11	57/70, 3-4=-139/72, 10/27											
BOT CHORD	1-9=-75/5 6-7=-75/5	7, 8-9=-75/ 7	57, 7-8=-75/57,											
WEBS	4-7=-307/	89, 3-8=-27	76/98, 2-9=-272/91										000	Jone
NOTES													FEOF	MISS
 Wind: ASC Vasd=91m II; Exp B; I cantilever right exposi- only. For see Stand or consult All plates a Gable reqi Gable studies 	CE 7-16; Vu nph; TCDL= Enclosed; M left and righ sed; Lumbe igned for wi studs expos ard Industry qualified bu are 2x4 MT2 uires continu ds spaced a	It=115mph 6.0psf; BCI WFRS (en: t exposed ; r DOL=1.60 ind loads in ed to wind Gable Enc ilding desig 20 unless o uous botton t 4-0-0 oc.	(3-second gust) DL=6.0psf; h=25ft; C velope) exterior zon; end vertical left and plate grip DOL=1.6 the plane of the tru (normal to the face) d Details as applicat gner as per ANSI/TP therwise indicated. n chord bearing.	Cat. e; d 50 ss , le, l 1.							,		SCOT SEV SEV NUM PE-2001	TT M. TER BBER 1018807

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



August 16,2022

Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V19	Valley	1	1	Job Reference (optional)	153666739

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:24 ID:IP6rfR0921MtwtIRLmIBcxyncir-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

i ug



Scale = 1:43

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15		TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.13	Horiz(TL)	0.00	5	n/a	n/a		
BCDL		10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 40 lb	FT = 10%
LUMBER				6)	* This truss h	nas been designe	d for a liv	e load of 20.0	0psf					
TOP CHORD	2x4 SPF	No.2			on the bottor	n chord in all area	as where	a rectangle						
BOT CHORD	2x4 SPF	No.2			3-06-00 tall b	oy 2-00-00 wide w	/ill fit betv	veen the bott	om					
WEBS	2x3 SPF	No.2			chord and ar	ny other members	s, with BC	DL = 10.0pst	f.					
OTHERS	2x3 SPF	No.2		Provide mec	ers) of truss t	to								
BRACING					bearing plate	e capable of withs	tanding 1	5 lb uplift at j	joint					
TOP CHORD	Structura	al wood she	athing directly applie	ed or	5, 49 lb uplif	t at joint 6 and 57	lb uplift a	it joint 7.						
	6-0-0 oc	purlins, ex	cept end verticals.	8)	I NIS TRUSS IS	designed in accol	rdance w	Ith the 2018	ام مر د					
BOT CHORD	Rigid cei bracing.	ling directly	applied or 10-0-0 o	C	R802.10.2 a	nd referenced sta	ndard AN	ISI/TPI 1.	and					
REACTIONS	(size)	1=13-0-0,	5=13-0-0, 6=13-0-0	_{),} LO	DAD CASE(S)	Standard								
		7=13-0-0												
	Max Horiz	1=180 (LC	C 5)											
	Max Uplift	5=-15 (LC	C 5), 6=-49 (LC 8), 7	=-57										
		(LC 8)												
	Max Grav	1=196 (LC 6=420 (LC	C 16), 5=183 (LC 15 C 2), 7=434 (LC 2)),										
FORCES	(lb) - Max Tension	kimum Com	pression/Maximum											
TOP CHORD	1-2=-152 4-5=-112	/79, 2-3=-1 /27	32/63, 3-4=-115/49,											
BOT CHORD	1-7=-61/4	47, 6-7=-61	/47, 5-6=-61/47											
WEBS	3-6=-294	/91, 2-7=-3	23/110											
NOTES														111
1) Wind: AS	CE 7-16; Vu	ult=115mph	(3-second gust)										O DE	MIL
Vasd=91	mph; TCDL=	=6.0psf; BC	DL=6.0psf; h=25ft; 0	Cat.									RE OF	MISS
II; Exp B;	Enclosed; N	//WFRS (er	velope) exterior zor	ne;									HAN	N.S.
cantilever	r left and rig	ht exposed	; end vertical left an	d								E	SCO	TT M YPY
right expo	osed; Lumbe	er DOL=1.6	0 plate grip DOL=1.	60								. 8	SE	VIED V
Truss de	signed for w	ind loads ir	n the plane of the tru	ISS								R.		
only. For	studs expo	sed to wind	(normal to the face)),								N N	×	178

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 10.0 psf bottom chord live load nonconcurrent with any other live loads.





Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V20	Valley	1	1	Job Reference (optional)	153666740

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:24 ID:IP6rfR0921MtwtlRLmIBcxyncir-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:37.4

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.42	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.22	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.11	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 30 lb	FT = 10%
			7)	Provide me	chanical connec	tion (by oth	ers) of truss	to					
TOP CHORD	2x4 SPF No.2			4 and 72 lb	e capable of will	instanding i	2 ID UPIIIT at	joint					
BOT CHORD	2x4 SPF No.2 4 and 73 lb uplift at joint 5.												
WEBS	2x3 SPF No.28)This truss is designed in accordance with the 2018												
OTHERS	2x3 SPF No.2			Internationa	Residential Co	ode sections	R502.11.1 a	and					
BRACING				R802.10.2 a	and referenced	standard AN	ISI/TPI 1.						
TOP CHORD	Structural wood sheat 6-0-0 oc purlins, exc	athing directly applice the second seco	ed or LC	DAD CASE(S)	Standard								
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	С										
REACTIONS	(size) 1=10-4-0, Max Horiz 1=141 (LC Max Uplift 4=-12 (LC Max Grav 1=209 (LC (LC 1)	4=10-4-0, 5=10-4-0 5) 5), 5=-73 (LC 8) C 1), 4=102 (LC 1),) 5=557										
FORCES	(lb) - Maximum Com	pression/Maximum											

10-4-0

FORCES (ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-118/102, 2-3=-113/39, 3-4=-83/23 BOT CHORD 1-5=-48/37, 4-5=-48/37 WEBS 2-5=-419/134

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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.





Job	Truss	Truss Type	Qty	Ply	Lot 141 HM	
B220118	V21	Valley	1	1	Job Reference (optional)	153666741

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Mon Aug 15 13:48:24 ID:IP6rfR0921MtwtlRLmlBcxyncir-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



7-8-0

Scale = 1:29.3

Loading	(ps	sf)	Spacing	2-	0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25	i.0	Plate Grip DOL	1.	15		TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144	
TCDL	10	0.0	Lumber DOL	1.	15		BC	0.11	Vert(TL)	n/a	-	n/a	999			
BCLL	0	.0*	Rep Stress Incr	YI	S		WB	0.06	Horiz(TL)	0.00	4	n/a	n/a			
BCDL	10	0.0	Code	IR	C201	8/TPI2014	Matrix-P							Weight: 21 lb	FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood 6-0-0 oc purlins Rigid ceiling dir bracing.	d shea s, exc rectly a	thing directly app ept end verticals. applied or 10-0-0	blied or oc	7) 8) LC	Provide mec bearing plate and 52 lb up This truss is International R802.10.2 a OAD CASE(S)	chanical conne e capable of w lift at joint 5. designed in a Residential C nd referenced Standard	ection (by oth vithstanding 7 ccordance w Code sections I standard Al	vers) of truss 7 lb uplift at j vith the 2018 s R502.11.1 NSI/TPI 1.	to oint 4 and						
REACTIONS	(size) 1=7-4 Max Horiz 1=10 Max Uplift 4=-7 Max Grav 1=96 (LC 2	8-0, 4⊧)2 (LC (LC 5 6 (LC 1 1)	=7-8-0, 5=7-8-0 5)), 5=-52 (LC 8) 16), 4=139 (LC 1)), 5=39	6											
FORCES	(lb) - Maximum	Comp	pression/Maximur	m												

Top CHORD 1-2=-85/64, 2-3=-96/40, 3-4=-108/26 BOT CHORD 1-5=-35/26, 4-5=-35/26 WEBS 2-5=-308/105

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 4-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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.





