Job	Truss	Truss Type	Qty	Ply	
22050129 - Base house	A1	Piggyback Base Supported Gable	1	1	Job Reference (optional)

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Wed May 25 14:19:27 Page: 1

ID:p7SafMqETF1yP1?2bgwmKDzD8Og-T__45B82ZIbeg9hmXgVWRszjUPmKjFPZvoi6V9zD5g_



Job	Truss	Truss Type	Qty	Ply	
22050129 - Base house	A2	Piggyback Base	4	1	Job Reference (optional)

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Wed May 25 14:19:27 Page: 1 ID:xMC3p_njP0XWwQiHMqsq9NzD8Ok-T_45B82ZIbeg9hmXgVWRszYrPbFj77Zvoi6V9zD5g_



Plate Offsets (X, Y): [4:0-6-4,0-2-4], [6:0-6-4,0-2-4], [10:Edge,0-8-2], [18:Edge,0-8-2]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 18.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	IRC20	2-0-0 1.15 1.15 YES 018/TPI2014	CSI TC BC WB Matrix-MSH	0.79 0.78 0.67	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.14 -0.26 0.08	(loc) 16-17 16-17 10	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 265 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she except end verticals (4-4-9 max.): 4-6. Rigid ceiling directly bracing. 1 Row at midpt MiTek recommends required cross brack truss erection, in ad Installation guide.	eathing directly applied, s, and 2-0-0 oc purlins v applied or 10-0-0 oc 2-16, 5-14, 8-12 s that Stabilizers and sing be installed during ccordance with Stabilizer	3)	Wind: ASCE Vasd=103mm II; Exp B; En Exterior(2E) 24-64, Exter to 38-84 zor vertical left a forces & MW DOL=1.60 P TCLL: ASCE Plate DOL= ² DOL=1.15 P Exp.; Ce=0.9 roof snow Io exposed sur accordance	7-16; Vult=130mp bh; TCDL=6.0psf; closed; MWFRS (0-1-12 to 4-0-6, Ir 14-3-12 to 19-9-1 rior(2R) 24-6-4 to ne; cantilever left a und right exposed; /FRS for reactions late grip DOL=1.3; z-16; Pr=20.0 psf late DOL=1.15); Is 2; Cs=1.00; Ct=1.1 ad governs. Rain faces with slopes I with IBC 1608.3.4.	bh (3-sec BCDL=6 envelop hterior (1 1, Interic 30-0-2, I and right C-C for r shown; 3 f (roof LI ; Pf=18.9 =1.0; R 10, Lu=5 surcharg less thar	ond gust) .0psf; h=25fi e) and C-C) 4-0-6 to 14. r (1) 19-9-11 nterior (1) 30 exposed ; ei nembers and Lumber :: Lum DOL= 9 psf (Lum bugh Cat B; I)-0-0; Min. fi ge applied to i 0.500/12 in	t; Cat. -3-12, to -0-2 nd f :1.15 Fully at all					
REACTIONS FORCES TOP CHORD BOT CHORD	(lb/size) 10=1356/ 18=1356/ Max Horiz 18=-197 ((lb) - Max. Comp./M (lb) or less except w 1-19=-2397/72, 2-15 2-20=-1973/133, 3-2 3-4=-1857/175, 4-21 5-21=-1664/188, 6-7 7-23=-1860/156, 8-2 8-24=-2219/99, 9-24 1-18=-1609/87, 9-10 17-18=-178/477, 17 16-25=-58/2024, 15 15_26=0/1582 14-21	Mechanical, (min. 0-1-8 Mechanical, (min. 0-1-8 (LC 11) (LC 25), 18=1725 (LC 2- ax. Ten All forces 250 /hen shown. 9=-2219/99, 20=-1860/156, 1=-1664/188, 22=-1664/188, 22=-1664/188, 23=-1973/133, 4=-2397/72, 0=-1609/87 -25=-58/2024, -16=0/1582, 6=0/1582, 14-27=0/1555), 4) 5) 4) 6) 7) 8) LO	Provide adee * This truss I on the botton 3-06-00 tall I chord and an Refer to gird This truss is International R802.10.2 a Graphical pu or the orients bottom chord AD CASE(S)	quate drainage to has been designed in chord in all area by 2-00-00 wide w hy other members, er(s) for truss to tr designed in accor Residential Code ind referenced star rifin representation ation of the purlin d. Standard	prevent d for a liv is where ill fit betv , with BC uss coni dance w sections ndard AN n does n along the	water pondin e load of 20. a rectangle veen the bot: DL = 10.0ps enctions. ith the 2018 s R502.11.1 a ISI/TPI 1. of depict the e top and/or	g. Opsf tom .f. and size					
WEBS NOTES	10-20=0/1362, 14-2 13-27=0/1555, 12-13 12-28=-13/1921, 11- 10-11=-49/335 2-16=-567/110, 4-16 5-14=-330/83, 6-14= 8-12=-567/110, 1-17 ed roof live loads have	o-ur 1362, 14-27=0/1555 3=0/1555, -28=-13/1921, 3=0/602, 4-14=-104/352, 104/352, 6-12=0/602, 7=-7/1618, 9-11=-5/1618 a been considered for thi	s,										

 Unbalanced roof live loads have been considered for thi design.

Job		Truss		· · · ·	Truss Ty	ре			Qty	Pl	у						
22050129 - house	Base	A3			Piggyba	ack Base			1	1		Job Refe	erence (op	tional)			
Carter Compone	nts - Sanford, S	anford, N	C, user	•			Run: 8.53	S Mar 28	2022 P IE	rint: 8.530 D:xMC3p_1	S Mar 2 njP0XWv	28 2022 MiT wQiHMqsq9	ek Industrie NzD8Ok-x/	s, Inc. V AYTIX8g	Ved May 25 ´ IKcjVIJGy5N	14:19:28 01_3WkI	Page: 1 Npw3SYBi8SRg0bzD5fz
		<u> </u>	7-3-10 7-3-10	+	<u>14-3</u> 7-0	3-12)-2	<u>19-5-</u> 5-1-4		24- 5-1	<u>6-4</u> I-4	ł	<u>31-6-6</u> 7-0-2			<u>38-10-0</u> 7-3-10	\longrightarrow	
- - - -	1 0-11-3 23	10x12=	24 <u>W2</u>	8 ¹² 3x5 = 2 2 W3 22 6x8=	5 5 81 30	2 3 3 2 5 4 3 3 2 3 2 3 2 3 3 2 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3	5-1-4 5-1-4 6= 5-1-4 5-1-4 1-19-31 1-19-31 (8= 3 5x8 x 2 3x0=9-1 16-0-0 5-0-12	3x5= 2627 2627 6 19-9-0 18 x6= 2x4 II 2	2.13 13 13 16 3: 16 3: 2x4⊪ 3x6=	544 55 544 2 13 1: 3x6= 5x8 3; 23-10 23-9-4	x6= 6 5 2 x8= -2	3x6a 7 7	28 3x5 8 9 13 11 6x	B1 8=	29 29 <u>W2</u>	10x1:	9 161-3 2=
Scale = 1:79.1		<u>}</u>	<u>7-3-10</u> 7-3-10		<u>14-</u> 7-1	- <u>5-8</u> -14 0- 0	11-14 / 6-6 1-9-1; -0-14 0-11-4	<u> 21-0-4</u> 3-2-8 2	22-1 1-9	0-024-4 -12 0-6- 0-11-4 0-0-1	-8 -6 4	<u>31-6-6</u> 7-1-14			<u>38-10-0</u> 7-3-10		
Plate Offsets (X, Y): [4:0-4-4	4,0-2-4],	[6:0-4-4,0-2-4	4], [10:Eo	dge,0-8-2	2], [11:0-3-8,0	-3-0], [22:0)-3-8,0-3-(0], [23	Edge,0-	8-2]						
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	18.9/	(psf) 20.0 /20.0 10.0 0.0* 10.0	Spacing Plate Grip D Lumber DOI Rep Stress I Code	OL L Incr	IRC20	2-0-0 1.15 1.15 YES 18/TPI2014	CSI TC BC WB Matrix-MS	бн	0.74 0.87 0.81	DEFL Vert(LL Vert(CT Horz(C) -C ⁻) -C T) C	in (loc).17 16-1).34 16-1).07 1	c) l/defl 8 >999 8 >999 0 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 2		GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS	10.0 Weight: 273 lb FT = 20% ER 10.0 Weight: 273 lb FT = 20% HORD 2x4 SP No.1 *Except* T3:2x4 SP No.2 10.0 Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCD=6.0psf; h=25ft; Cat. ING 11: Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2R) 14-312 to 19-9-11, Interior (1) 40-6 to 14-3-12, Exterior(2R) 14-312 to 19-9-11 to 24-6-4 to 30-0-2, Interior (1) 30-0-2 to 38-84 zone; cantilever left and right exposed; c-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33 TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15) TCLL: ASCE 7-16; Pr=20.0 psf, Pf=18.9 psf (Lum DOL=1.15); Plate DOL=1.15); Pg=20.0 psf, Pf=18.9 psf (Lum DOL=1.15); Pg=20.0 psf, Pf=18.9 psf (Lum DOL=1.15); Plate DOL=1.15); Pg=20.0 psf, Pf=18.9 psf (Lum DOL=1.15); Plate DOL=1.15); Rg=20.0 psf, Pf=18.9 psf (Lum DOL=1.15); Plate DOL=1.15); Pg=20.0 psf, Pf=18.9 psf (Lum DOL=1.15); Plate DOL=1.15); Plate DOL=1.15); Pg=20.0 psf, Pf=18.9 psf (Lum DOL=1.15); Plate DOL=1.15); Plate DOL=1.15); Pg=20.0 psf, Pf=18.9 psf (Lum DOL=1.15); Plate DOL=1.15); Plate DOL=1.15); Plate DOL=1.15); Plate DOL=1.15); Plate DOL=1.15); Pg=20.0 psf, Pf=18.9 psf (Lum DOL=1.15); Plate DOL=1.15); Plate DOL=1.15); Plate DOL=0.0 psf, Pf=18.9 psf (Lum DOL=1.15); Plate DOL=0.0 psf, Pf=18.9 psf (Lum DOL=0.0 p																
REACTIONS	(lb/size) 10 23 Max Horiz 23 Max Grav 10	0=1546/ 3=1546/ 3=-197 (1 0=2013 (Mechanical, (Mechanical, (LC 9) (LC 25), 23=2	(min. 0-1 (min. 0-1 :013 (LC	-8), -8) 4) 24) 5)	exposed sur accordance 200.0lb AC u from left end	faces with with IBC 16 unit load pla , supported	slopes les 508.3.4. aced on th d at two po	ne bott oints, s	om chore 5-0-0 apa	d to an 2 in d, 19-5- art.	-0					
FORCES	(lb) - Max. C	comp./Ma	ax. Ten All f	orces 25	i0 6)	* This truss I	has been d	esigned fo	or a liv	e load of	i 20.0ps	sf					
TOP CHORD	 (b) - Max. Comp./Max. Terr All forces 250 (b) or less except when shown. (b) - Max. Comp./Max. Terr All forces 250 (b) or less except when shown. (c) - Max. Comp./Max. Terr All forces 250 (c) or less except when shown. (c) - Max. Comp./Max. Terr All forces 250 (c) or less except when shown. (c) - Max. Comp./Max. Terr All forces 250 (c) or less except when shown. (c) - Max. Comp./Max. Terr All forces 250 (c) or less except when shown. (c) - Max. Comp./Max. Terr All forces 250 (c) or less except when shown. (c) - Max. Comp./Max. Terr All forces 250 (c) or less except when shown. (c) - Max. Comp./Max. Terr All forces 250 (c) or the bottom chord in all areas where a rectangle (c) - Max. Terr All forces 250 (c) or the bottom chord in all areas where a rectangle (c) - Max. Terr All forces 250 (c) or the bottom chord in all areas where a rectangle (c) - Max. Terr All forces 250 (c) or the bottom chord in all areas where a rectangle (c) - Max. Terr All forces 250 (c) or the bottom chord in all areas where a rectangle (c) - Max. Terr All forces 250 (c) or the bottom chord in all areas where a rectangle (c) - 00 (c) tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. (c) - 2347/0, 7-28=-2349/0, 8-28=-2463/0, 8-28=-2																
BOT CHORD WEBS NOTES	22-23=-163/ 21-30=0/235 18-31=0/225 13-32=0/220 11-33=0/225 20-34=-1530 14-35=-1530 2-21=-521/1 8-12=-521/1 8-12=-521/1 20-21=-634/1 18-20=0/137	(522, 22- 95, 19-2 04, 16-18 04, 12-13 32, 10-11 0/0, 17-3 0/0 34, 4-21 34, 1-22 (0, 5-20= 34, 12-1 78	30=0/2395, 1=0/2204, 19- 3=0/3348, 16- 3=0/2204, 12- 1=-35/379, 44=-1530/0, 5=-1530/0, 5=-1530/0, 6-1: 1-304/134, 4=-634/0, 14-	-31=0/22 -32=0/22 -33=0/22 2=0/103 1=0/1945 -16=0/13	9) 04, 92, LO , 5, 5,	Graphical pu or the orient bottom chore AD CASE(S)	a reference ation of the d. Standard	entation d purlin alo	oes no	of depict	the size /or	e					

Job		Truss			Trus	s Type			Qt	y	Ply								
22050129 - house	Base	A4			Pigg	gyback	Base		1		1	Job	Referer	nce (opt	ional)				
Carter Componer	nts - Sanford, S	anford, N	IC, user					Run: 8.53 S	Mar 28 2022	Print: 8. ID:xMC	530 S Mar 3p niP0XV	r 28 202 WwQiHN	2 MiTek I Jasa9Nz	ndustries D8Ok-xA	, Inc. W YTIX8a	/ed May 25 KciVIJGv5	5 14:19:2 NOL 3W	28 mypxeSXPi8S	Page: 1 Rg0bzD5fz
		ļ	5-7-3	ļ	10-0-10	ļ	14-3-12	19-5-0		24-6-4		3	1-6-6			38-10-0	0		
		I	5-7-3	I	4-5-7	I	4-3-3	5x6=	3x5=	5-1-4	5x6=	-	7-0-2	I		7-3-10)	I	
10-5-11	2	4x8= 1 W1	3 ¹² 24	5x6= 2 W3	25	8 ¹² 3x5 = 3 ²⁶	27 20	4 28 28 40 40 40 40 40 40 40 40 40 40 40 40 40	293053132 T3 T3			33	<8≈ 7 34 ⊕ ₩10	3xt 35 36 W	88 11 B1	37	2	9 9 9	
		2x4॥		5x10=	50		39	3x8= 3x	6= 2	x411 3x	6=		42	63	<8=		1	0x12=	
Scale = 1:79.1		<u> </u>	<u>5-5-7</u> 5-5-7			<u>14-5-8</u> 9-0-1	1	5x8 / 2x 4x7=9-12 16-0-0 15-0-12 4-11-14 	(4 II) (4 2 <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>2</u> <u>3</u> -2-8	×6= 23 22-10-0 	5x8 v 3x8= 23-10-2 3-9-4 0 24-4-8 0-6-6 11-4 0-0-14	<u>3</u> 7	<u>1-6-6</u> -1-14			<u>38-10-(</u> 7-3-10	<u>0</u>)		
Plate Offsets ()	X, Y): [4:0-4-4	4,0-2-4],	[6:0-4-4,0	0-2-4], [1	0:Edge,0	0-8-2],	[11:0-3-8,	0-3-0]										_	
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	18.9	(psf) 20.0 /20.0 10.0 0.0* 10.0	Spacing Plate Gr Lumber Rep Stre Code	j ip DOL DOL ess Incr	IR	C2018	2-0-0 1.15 1.15 YES /TPI2014	CSI TC BC WB Matrix-MSH	0.64 0.77 0.86	DEF Verte Verte Horz	∶L (LL) · (CT) · z(CT)	in -0.23 -0.40 0.07	(loc) 21-22 21-22 10	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight:	s 283 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	10.0 BO' 2x4 SP No.2 *Except* T4,T5:2x4 SP 2400F 2.0E 2x4 SP 2400F 2.0E *Except* B2:2x4 SP No.1 2x4 SP No.3 *Except* W2:2x4 SP No.2 Structural wood sheathing directly applied or 3-1-2 oc puring except and verticals and						T CHORD 22-38=0/2230, 38-39=0/2230, 21-39=0/2230, 9) This truss is designed in accordance with the 2 International Residential Code sections R502. 19-21=0/2215, 19-40=0/2215, 18-40=0/2215, 16-18=0/3280, 16-41=0/2219, 13-41=0/2219, 12-42=-27/2412, 10-11=-83/386, 20-43=-1419/0, 15-41=-1419/0, 15-41=-1419/0, 14-44=-1419/0, 12-21=-1188/201 4-21=0/1130 6-12=0/1040 9) This truss is designed in accordance with the 2 International Residential Code sections R502. R802.10.2 and referenced standard ANSI/TPI 12-13=0/2219, 12-42=-27/2412, 10-11=-83/386, 20-43=-1419/0, 15-44=-1419/0, 15-44=-1419/0, 12-22=-1188/201 4-21=0/1130 6-12=0/1040 10) Graphical purlin representation does not depic or the orientation of the purlin along the top ar bottom chord. LOAD CASE(S) Standard							018 1.1 and 1. the size d/or					
BOT CHORD	2-0-0 oc pur Rigid ceiling bracing. Ex 5-2-0 oc bra	directly cept: cing: 14	9-12 max. / applied c): 4-6. or 10-0-0	oc			8-12=-640/217 3-21=-474/221 5-20=-304/119 12-14=-651/0,	, 9-11=0/20 , 20-21=-6 , 5-14=-31 3-22=-103)69, 1-2)1/0, 2/131, '323, 14	22=-74/25 4-16=0/12	591, 275,							
WEBS	1 Row at mi MiTek recon required cro truss erection Installation	idpt mmends oss brac on, in ac guide.	8-12, 3-2 s that Stat cing be ins ccordance	1, 5-20, s pilizers a stalled du with Sta	nd uring abilizer	NOTE 1) Ur de 2) W	S nbalanceo esign. ind: ASCE	18-20=0/1280 I roof live loads E 7-16; Vult=13	s have beer 0mph (3-s	n consid econd g	dered for gust)	this							
REACTIONS	(Ib/size) 10 23 Max Horiz 23 Max Grav 10	0=1546/ 3=1546/ 3=193 (L 0=2084	Mechanic Mechanic _C 12) (LC 53), 2	cal, (min cal, (min 23=2023	. 0-1-8), . 0-1-8) (LC 3)	Va II; 25 29	asd=103m Exp B; E (terior(2E) 5-3-12, Ex 5-2-6 to 35	ph; TCDL=6.0 nclosed; MWFI) 11-1-12 to 15 terior(2R) 25-3 5-6-4, Exterior(psf; BCDL= RS (envelo -0-6, Interio -12 to 29-2 2R) 35-6-4	6.0psf; be) and r (1) 15 -6, Inte to 39-4	; h=25ft; (I C-C 5-0-6 to rior (1) I-13, Inter	Cat. rior							
FORCES TOP CHORD	(lb) - Max. C (lb) or less e 1-24=-2365/ 2-25=-2852/ 3-26=-2488/ 4-27=-2376/ 28-29=-1998/ 5-30=-1998/ 7-34=-2381/ 35-36=-252! 8-37=-2786/ 9-10=-1960/	comp./M except w (110, 2-2 (217, 3-2 (1150, 26 (179, 4-2 3)(192, 2-3 5)(191, 6-7 (149, 34 5)(126, 8 (143, 9-3 (141, 1-2)	ax. Ten then show 24=-2340/ 25=-2766/ 25=-276247 28=-1998/ 9-30=-1995/ 31=-1995/ 2-33=-1995/ 2-33=-1995/ 7=-2375/1 -35=-2418 36=-2544 37=-2976/ 23=-1960/	All force rn. 118, 234, 2/166, 192, 38/192, 191, 35/191, 568, 3/142, 4/121, 116, 127	s 250	(1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) 39-4-13 posed ; e embers a imber DO CLL: ASC ate DOL= DL=1.15 f posed su icordance ate and posed su icordance sign. 10.01b AC m left enu- ovide ade This truss the bottc 06-00 tall 06-00 tall ord and a efer to gird	to 49-8-4 zone nd vertical left nd forces & MV L=1.60 plate g E 7-16; Pr=20.1 1.15); Pg=20.0 Plate DOL=1.19 9; Cs=1.00; Ct bad governs. F rfaces with sloy with IBC 1608 I snow loads ha unit load place d, supported at quate drainag has been desig m chord in all by 2-00-00 wid iny other memil der(s) for truss	; cantilevei and right e VFRS for n ip DOL=1. 0 psf (roof 0 psf; Pf=18 5); Is=1.0; I =1.10, Lu= Rain surcha pes less th 3.3.4. ave been c d on the bo t two points e to prever gned for a areas wher le will fit be bers, with E	LEft ann kposed actions 33 L: Lurr .9 psf (Sough (50-0-0; rge app an 0.50 ponsider ttom ch , 5-0-0 t water ive load e a rect tween t COL = nnectio	d right ;C-C for s shown; 'Lum Cat B; Fu Min. flat olied to al 0/12 in red for thi nord, 19-t apart. ponding. d of 20.0pt tangle the bottor 10.0psf. ns.	.15 Illy Il 5-0 psf							

Job	Truss	Truss Type		Qty	Ply		
22050129 - Base house	A5	Piggyback Base		3	1	Job Reference (optional)	
Carter Components - Sanford, Sanford, NC, user			n: 8.53 S Mar 28 2	022 Print: 8.	530 S Mar 2	8 2022 MiTek Industries, Inc. Wed May 25 14:19:29	Page: 1

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Job	Truss	Truss Type	Qty	Ply	
22050129 - Base house	A6	Piggyback Base	1	1	Job Reference (optional)

Scale = 1:69.7



Page: 1 ID:LxuCR0qbixv5ntQs1yPXn?zD8Oh-PM6rWt9J4wrMwTr8f5X_XH3rNClaB4crM6BDZ2zD5fy



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

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) S 20.0 Pl 18.9/20.0 Lu 10.0 Ru 0.0* Cu 10.0	pacing late Grip DOL umber DOL ep Stress Incr ode II	2-0 1. ⁻ 1. ⁻ YE RC2018/TPI20 ⁻	0 CSI 5 TC 5 BC 8 WB 4 Matrix-MSH	0.98 0.66 0.48	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.10 -0.18 0.03	(loc) 9-11 9-11 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 219 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS WEBS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood sheath 1-7-8 oc purlins, excep 2-0-0 oc purlins (6-0-0 Rigid ceiling directly ap bracing. 1 Row at midpt 2-1 2 Rows at 1/3 pts 1-1 MiTek recommends the required cross bracing truss erection, in acco Installation quide	ning directly applied or pt end verticals, and max.): 2-4. oplied or 10-0-0 oc 13, 3-12, 4-12, 6-11 4 at Stabilizers and p be installed during rdance with Stabilizer	 Wind: AS Vasd=100 II; Exp B; Exterior(2 17-3-12, 24-6-4, to cantileven right expo for reacting DOL=1.3 TCLL: AS Plate DO DOL=1.1 Exp.; Ces roof snow exposed accordan 	CE 7-16; Vult=130m mph; TCDL=6.0psf Enclosed; MWFRS E) 12-5-4 to 14-3-12 hterior (1) 17-3-12 t 27-6-4, Interior (1) 2 left and right expos sed;C-C for membe sed;C-C for membe sed;C-C for membe ns shown; Lumber I CE 7-16; Pr=20.0 ps =1.15); Pg=20.0 ps =1.15); Pg=20.0 ps 5 Plate DOL=1.15); 0.9; Cs=1.00; Ct=1. load governs. Rair surfaces with BC 1608 34 with IBC 1608 34	ph (3-sec ; BCDL=6 (envelop 2, Exterio o 24-6-4, 27-6-4 to : ed ; end for DOL=1.6 sf (roof LI sf; Pf=18. is=1.0; R 10, Lu=5 n surcharg less thar	cond gust) .0psf; h=25i and C-C r(2R) 14-3-1 Exterior(2R) 38-8-4 zone; vertical left a cres & MWF D plate grip L: Lum DOL: D psf (Lum bugh Cat B; 0-0-0; Min. f ge applied to h 0.500/12 ir	ft; Cat. 2 to ; ; ind ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;					
REACTIONS	(lb/size) 8=916/ Mech 14=964/0-3-8 Max Horiz 14=-281 (LC Max Grav 8=1248 (LC 4	nanical, (min. 0-1-8), 8, (min. 0-1-8) 13) 49), 14=1229 (LC 44)	 4) Unbalance design. 5) Provide a 6) * This true on the boo 	ed snow loads have dequate drainage to s has been designe tom chord in all are	been co prevent d for a liv	nsidered for water pondii re load of 20 a rectangle	this ng. J.0psf					
FORCES TOP CHORD	(lb) - Max. Comp./Max. (lb) or less except when 1-2=-353/219, 2-15=-64 15-16=-648/197, 16-17 3-17=-648/197, 3-18=-6 4-18=-648/197, 3-18=-6 4-18=-648/197, 4-5=-92 5-19=-937/177, 6-19=-1 6-20=-1464/139, 7-20= 1-44=-1221/148, 7-8=-1 -14=-1221/148, 7-8=-1 -15=-1221/148, 7-8=-128-128-128-128-128-128-128-128-128-128	Ten All forces 250 n shown. 48/197, ==648/197, 648/197, 29/197, 1098/154, 1653/112, 1135/113	 3-06-00 t chord and 7) Refer to g 8) One RT7. truss to b connection forces. 9) This truss Internetion 	all by 2-00-00 wide w any other members irder(s) for truss to 1 A MiTek connectors aaring walls due to U n is for uplift only ar is designed in accord and Rocidential Cod	vill fit betw s, with BC truss cont recomme JPLIFT a d does n ordance w	veen the bot DL = 10.0p: nections. nded to con t jt(s) 14. Th ot consider I ith the 2018	ttom sf. nect is lateral					
BOT CHORD	13-141221/143, 7-51 13-14269/343, 13-21 12-21112/330, 12-22 10-1146/1299, 10-23 9-2346/1299, 8-9-53	=-112/330, =0/803, 11-22=0/803, =-46/1299, 3/302	R802.10. 10) Graphica or the orio	2 and referenced sta purlin representatic entation of the purlin	andard AN n does n along the	SI/TPI 1. SI/TPI 1. ot depict the top and/or	size					
WEBS	1-13=-164/1082, 2-13=- 2-12=-146/942, 3-12=-5 4-12=-553/105, 4-11=-1 6-9=0/280, 7-9=0/1043	:-884/257, 530/98, 15/703, 6-11=-748/144	LOAD CASE	S) Standard								
NOTES	- due of the locate to											

ed roof live loads have been considered for this Unbalai I) design.

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base	A7	Piggyback Base	3	1	lob Reference (optional)
house	, u	1 igg) such Bucc	U U	•	Job Reference (optional)

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	, 5-10-9	14-5-8	ຸ 23-1-0 ໄ	
Scale = 1:65.5	5-10-9	8-7-0	8-7-8 1	

Loading (psf) Spacing 2-0-0 CSI DEFL in (loc) l/defl L/d PLATES GF TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.59 Vert(LL) -0.29 7-8 >956 240 MT20 24 Snow (Pf/Pg) 18.9/20.0 Lumber DOL 1.15 BC 0.99 Vert(CT) -0.44 7-8 >615 180 MT20 24 BCLL 0.0* Rep Stress Incr YES WB 0.58 Matrix-MSH Horz(CT) 0.02 7 n/a n/a BCDL 10.0 IRC2018/TPI2014 Matrix-MSH Matrix-MSH Weight: 178 lb FT LUMBER 0.0* 20 Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. Weight: 178 lb FT TOP CHORD 2x4 SP No.2 II; Exp B; Enclosed; MWFRS (envelope) and C-C II; Exp B; Enclosed; MWFRS (envelope) and C-C Cat	GRIP
BCDL 10.0 Weight: 178 lb FT LUMBER 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. Vasd=103mph; TCDL=6.0psf; bcDL=6.0psf; h=25ft; Cat. BOT CHORD 2x4 SP No.2 II; Exp B; Enclosed; MWFRS (envelope) and C-C	244/190
LUMBER 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 II; Exp B; Enclosed; MWFRS (envelope) and C-C	-T = 20%
WEBS2x4 SP No.3Exterior(2E) 11-10-4 to 14-10-4, Interior (1) 14-10-4 to 26-0-4, Exterior(2R) 26-0-4 to 29-0-4, Interior (1) 29-0-4 to 34-7-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33BOT CHORDRigid ceiling directly applied or 2-2-0 oc bracing.TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in	
Installation guide. accordance with IBC 1608.3.4. 4) Unbalanced snow loads have been considered for this	
 Max Horiz 11=177 (LC 12) Max Grav 7=1107 (LC 45), 11=1014 (LC 3) 	
FORCES (lb) - Max. Comp./Max. Ten All forces 250 chord and any other members, with BCDL = 10.0psf.	
(Ib) or less except when shown. 7) Refer to girder(s) for truss to truss connections. TOP CHORD 1-12=-1071/71, 2-12=-1048/80, 2-13=-1316/167, 13-14=-1243/172, 3-14=-1179/187, 3-15=-796/97, 15-16=-701/110, 4-16=-682/121, 4-17=-592/143, 5-17=-592/143, 8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces. 9) This truss is designed in accordance with the 2018	
1-11=-938/102 International Residential Code sections R502.11.1 and BOT CHORD 10-11=-320/166, 10-20=-251/851, 9-20=-251/851, 8-9=-251/851, 8-21=-98/357, 21-22=-98/357 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 0 Graphical purlin representation does not depict the size cr.the orientation of the orientation of the orientation of the orientation of the orientation along the top and/or	
WEBS 2-12=-574/186, 1-10=-32/1138, bottom chord. 5-8=-120/729, 5-7=-917/251, 3-8=-537/217, 3-10=-122/482 LOAD CASE(S) Standard	

NOTES

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

Job	Truss	Truss Type		Qty	Ply		
22050129 - Base house	A8	Piggyback Base		1	1	Job Reference (optional)	
Carter Components - Sanford, S	anford, NC, user	Run	: 8.53 S Mar 28 2	022 Print: 8.	530 S Mar 2	8 2022 MiTek Industries, Inc. Wed May 25 14:19:30	Page: 1

Carter Components - Sanford, Sanford, NC, user Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Wed May 25 14:19:30

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Job	Tru	ISS	Truss Type		Qty	Ply					
22050129 - E	Base B1		Piggyback Base S	upported Gable	1	1	Job Referen	ce (ontional)			
Carter Component	ts - Sanford, Sanfor	rd, NC, user		Run: 8.53 S Mar 28	2022 Print	: 8.530 S Mar 2	28 2022 MiTek Ir	idustries, Inc. V	Ved May 25 14:19:3	30	Page: 1
					ID:Di	7jHOt6IAPWG\	/kdGoUTyrzD80	Dd-tZgDjDAxrD	zCXdQLDo3D3Ub0)7cklwbw?bmv	m5UzD5fx
	-1-0-0		17-8-13		I	26	6-0-4	1	34-9-8		1
	1-0-0		17-8-13		1	8	-3-8	1	8-9-4		1
								3x5=		3	3x5=
<u> </u>								16 17	1843 19	20 2 ⊠	21
						8	12 15				Ē
5 10							14				
0-5-0						1213	B				
~					3x5= 12	42		ST12	ST12 ST12	ST12 V	V1 _
0-9-0-				3x5= 1	10 11		ST10 M	11			-5-1
=			312 31 6	78 9 12	P	ST9					P
9 9			4 5		STT7	ТВ					
4-1-4		3	TT ST3 ST4	ST5 SI6							
	1 2	ST1	ST2								
0-6 <u>-</u>	J										₹ 22 –
	3x5:	38	37 36 35	34 33 32 3x5	31 3 i=	30 29	28 2 5x6=	/ 26	25 24	23 3	8x5=
Scale = 1:65 1	<u> </u>				34-9-8						4
Plate Offsets (X	Y): [16:0-2-8.0	-1-13] [21·Edge 0-1-8]	[22·Edge 0-1-8] [28·0-	3-0 0-3-01							1
	., 1): [10:0-2-0,0								DI 4750		
TCLL (roof)	(psf 20.0) Spacing) Plate Grip DOL	2-0-0 1.15	TC	0.98 Ve	EFL ert(LL)	n (loc) n/a -	n/a 999	MT20	244/190	
Snow (Pf/Pg) TCDL	18.9/20.0 10.0) Lumber DOL) Rep Stress Incr	1.15 YES	BC WB	0.28 Ve	ert(CT) orz(CT) (n/a -).01 22	n/a 999 n/a n/a			
BCLL	0.0)* Code	IRC2018/TPI2014	Matrix-MSH		()			Waight 252 lb	FT - 200/	
BCDL	10.0	,					<u> </u>		vveight: 252 ib	FT = 20%	
LUMBER	2x4 SP No 2		1) Wind: ASCE Vasd=103m	E 7-16; Vult=130mph ph; TCDL=6.0psf; B0	(3-secon CDL=6.0p	d gust) osf; h=25ft; C	at.				
BOT CHORD	2x4 SP No.2		II; Exp B; E (3E) -0-11-1	nclosed; MWFRS (en	velope) a (2N) 2-5-1	and C-C Corn	er				
OTHERS	2x4 SP No.3 2x4 SP No.3		Corner(3R)	26-0-4 to 29-6-0, Ext	terior(2N)	29-6-0 to					
BRACING TOP CHORD	Structural wood	sheathing directly applie	vertical left	and right exposed;C-	C for mer	nbers and					
	6-0-0 oc purlins, 2-0-0 oc purlins	except end verticals, a	nd DOL=1.60 p	plate grip DOL=1.33	nown; Lui	mber					
BOT CHORD	Rigid ceiling dire	ectly applied or 10-0-0 o	c 2) Truss desig c only. For st	ned for wind loads in uds exposed to wind	n the plan (normal t	e of the truss o the face),					
WEBS	1 Row at midpt	21-22, 20-23, 19-24	see Standa or consult q	rd Industry Gable En ualified building desig	d Details a gner as pe	as applicable er ANSI/TPI ⁻	e, 1.				
	MiTek recomme	18-25, 17-26, 15-27 ends that Stabilizers and	3) TCLL: ASC Plate DOL=	E 7-16; Pr=20.0 psf (1.15): Pa=20.0 psf: F	roof LL: L Pf=18.9 ps	um DOL=1.1 sf (Lum	5				
	required cross l	pracing be installed duri	ng DOL=1.15 F	Plate DOL=1.15); ls=	1.0; Roug	h Cat B; Full	у				
	Installation guid	le.	roof snow lo	ad governs. Rain su	urcharge a	applied to all					
REACTIONS A	Il bearings 34-9-	8. 8 (I C 14) 39=298 (I C 1	accordance	with IBC 1608.3.4.	55 uiaii 0.	500/12 11					
(15) - N N	lax Uplift All upl	ift 100 (lb) or less at join	t(s) 4) Unbalanced	I snow loads have be	en consid	dered for this					
	2, 22, 30, 31	23, 24, 25, 26, 27, 28, 2 , 33, 34, 35, 36, 37, 38,	^{.9,} 5) This truss h 39 load of 12.0	as been designed for psf or 2.00 times flat	r greater o t roof loac	of min roof liv I of 13.9 psf o	re on				
N	/lax Grav All rea (s) 2, 1	actions 250 (lb) or less a 22, 23, 24, 25, 26, 27, 2	t joint overhangs i 8, 29, 6) Provide ade	non-concurrent with c	other live l event wat	loads. er ponding					
	30, 31 excep	, 33, 34, 35, 36, 37, 39 t 38=387 (LC 2)	7) All plates ar	e 2x4 MT20 unless o	otherwise	indicated.					
FORCES	(lb) - Max. Comp	o./Max. Ten All forces 2	250 9) Gable stude	spaced at 2-0-0 oc.							
TOP CHORD	2-3=-477/251, 3	-4=-435/219, 4-5=-425/2	224, on the botto	mas been designed for m chord in all areas	or a live lo where a r	ectangle	ST .				
	o-o=-406/213, 6 8-9=-371/200, 9	- <i>r</i> =-388/202, <i>r</i> -8=-383/2 -10=-349/189,	chord and a	by 2-00-00 wide will ny other members.	tit betwee	n the bottom					
	10-11=-351/189, 12-42=-344/189	11-12=-351/201, , 13-42=-333/202,	11) Provide me bearing plat	chanical connection (e capable of withstar	(by others ndina 100	i) of truss to Ib uplift at io	int				
BOT CHORD	13-14=-283/175 2-38=-306/200		(s) 22, 23, 2 37 38 2 2	24, 25, 26, 27, 28, 29	, 30, 31, 3	33, 34, 35, 36	ö,				
WEBS	3-38=-265/123		12) This truss is	designed in accorda	ance with	the 2018					
NULES			R802.10.2 a	and referenced stand	ard ANSI	7PI 1.					
			13) Graphical p or the orien	urlin representation d tation of the purlin alc	loes not d ong the to	lepict the size p and/or	e				
			bottom choi	d.	-						

LOAD CASE(S) Standard

Job		Truss		Trus	s Typ	be			Qty		Ply							
22050129 - house	Base	B2		Pig	gyba	ck Base			6		1	Jo	b Refere	nce (opt	ional)			
Carter Componer	nts - Sanford, S	anford, N	C, user				Run:	8.53 S Mar	28 2022 F	Print: 8	.530 S N	Mar 28 20	022 MiTek	Industries	, Inc. W	/ed May 25 14:1 X539n2XmWaS	9:31 ci8HL 0wr	Page: 1
	-1-	0-0								5.230						X0000111 X111W20	JOILOWC	Inioqogituw2D3iw
	+		<u> </u>	+	<u>11</u> 5	<u>-10-4</u> -9-4	1	<u>17-8-13</u> 5-10-9		<u>2</u> ^ 4	<u>-11-11</u> -2-14	╘──╁─	<u>26-0-4</u> 4-0-10		<u> </u>	4-0 -12	<u>34-9-8</u> 4-5-8	\longrightarrow
10-6-0 4-11-6 0 4-11-6 5-6-5	-6- <u>3</u> [−	2	21	3 W1 17 2x41	3 3 W2 B1	12 32 22	4 5 W3	5-10-9 W4 15	4x 6 B2 14 4x6	5= 13 3=	23 W6 29	8 ¹² 7 ²⁴	25 13 W/T 8 30	4x5= 8 WB 12 3x8:	4-3- 	26 9 27 ₩9 ₩9	4-5-8 28 № МЛО 8 32	10 W11 E 11 3x6=
	Or	ne RT7A	64.0	T	44	10.4	T	4774	I.			00.0.0				24.0.0		1
Scale = 1:67.1		1	6-1-0	+	5	-10-4 -9-4	1	<u>17-7-1</u> 5-8-13	Ť			<u>26-2-0</u> 8-7-0		ĺ		<u> </u>		
Plate Offsets (>	K, Y): [8:0-2-8	3,0-1-13], [10:Edge,0-1-8	3]														
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	18.9/	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Inco Code	- r IF	RC20 ⁻	2-0-0 1.15 1.15 YES 18/TPI2014	CSI TC BC WB Matri	x-MSH	0.63 0.93 0.70	DEF Vert Vert Hor	=L :(LL) :(CT) z(CT)	in -0.24 -0.38 0.02	(loc) 11-12 11-12 11-12 11	l/defl >999 >729 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 225	GRI 244 Ib FT	P /190 = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural w 5-7-9 oc pur 2-0-0 oc pur Rigid ceiling bracing. 1 Row at mi MiTek recor required cru truss erectin Installation	ood she lins, ex lins (6-0 directly <u>dpt</u> nmends oss brac on, in ac guide.	ot* W11:2x4 SP N athing directly a cept end vertical -0 max.): 8-10. applied or 2-2-0 10-11, 9-11, 7-12 that Stabilizers ing be installed o ccordance with S	No.2 pplied or ls, and) oc 2 and during itabilizer	2)	Wind: ASCE Vasd=103m II; Exp B; Err Exterior(2E) 26-0-4, Exter to 34-7-12 z vertical left a forces & MV DOL=1.60 p TCLL: ASCE Plate DOL= DOL=1.15 F Exp.; Ce=0. exposed sur accordance	7-16; ph; TC nclosed - 0-11- erior(2R cone; ca and righ VFRS f blate gri = 7-16; 1.15); F Plate D0 9; Cs= bad gov rfaces v with IB	Vult=130m DL=6.0psf; I; MWFRS I; MWFRS I3 to 2-5-1! 26-0-4 to antilever lef nt exposed; or reactions ip DOL=1.3 Pr=20.0 ps OL=1.15); I 1.00; Ct=1. 1.00; Ct=1. with slopes GC 1608.3.4	ph (3-see BCDL=6 (envelop 5, Interio 29-6-0, 1 t and rigl (C-C for r s shown; 3 f (roof LI f; Pf=18. s=1.0; R 10, Lu=5 surchar; less than	cond (5.0psf e) and r (1) 2 nt exp memb Lumb L: Lur 9 psf ough 0-0-0 ge ap n 0.50	gust) ; h=251 d C-C 2-5-15 to cr (1) 2 bors an ber n DOL= (Lum Cat B; ; Min. f plied to 00/12 ir	ft; Cat. to 9-6-0 end d =1.15 Fully flat o all						
REACTIONS (FORCES TOP CHORD BOT CHORD WEBS	(lb/size) 2= 11 12 14 15 16 17 16 17 17 17 17 17 17 17 17 17 17	322/0-3 =775/0- =1382/(2298 (LC =298 (LC =-48 (LC =-12 (L) =401 (LC =1767 (omp./M: xcept w 5, 3-21= 81, 4-5= 203, 7-2 23, 8-26 17 68, 16-1 102, 14- 755, 13- 755, 12- 349, 31- 349 90, 9-12 58, 7-12 247, 4 -	 a-8, (min. 0-1-8), 3-8, (min. 0-1-8), 3-8, (min. 0-2-7) 2-3-8, (min. 0-2-7) 2-34, (LC C 15) 2-33), 11=1042 (I (LC 3) ax. Ten All force hen shown. -504/70, 3-22=-7; -848/92, 5-6=-8; 23=-888/218, -5=-659/211, -545/217, 7=-334/468, -15=-608/102, -29=-288/755, -32=-178/349, 2=-99/649, =-408/164, -132/4200), 1) : 12), LC 46), :es 250 293/518, 27/108,	3) 4) 5) 6) 7) 8) 9) 10) LOA	design. This truss hi- load of 12.0 overhangs r Provide ade All plates ar * This truss on the botto 3-06-00 tall chord and a One RT7A M truss to bea 16. This con consider late This truss is Internationa R802.10.2 a Graphical pu or the orient bottom chor	as beer psf or : non-cor quate c e 3x5 N has beer m chor by 2-00 ny othe MiTek c ring was nectior eral forc c design I Resid and refe urlin rep cation o d.) Stand	n designed 2.00 times neurrent wit drainage to AT20 unles en designe d in all area 0-00 wide w er members onnectors r Ills due to L n is for uplif ces. ned in accoo ential Code grenced sta presentation f the purlin	for great flat roof I h other li prevent s otherw d for a li as where vill fit bets , with BC recomme JPLIFT a s section: ndard AH n does n along the	er of 1 oad o ve loa water ise inn re loa a rec ween CDL = ended t jt(s) d doe vith th s R50 NSI/TI ot dep e top	min roo f 13.9 ads. pondii dicatecc tangle the boi 10.0p; to con 11, 2, i s not e 2018 e 2018 P 1. pict the and/or	of live psf on ng. J. J. 0.0psf ttom sf. inect and and e size						
NOTES	3-17=0/252,	3-16=-9	998/169															

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base house	C1	Common Structural Gable	1	1	Job Reference (optional)

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Scale = 1:74.5	X XV. 137:0 2 0 0 2 0		6-9-12 6-9-12	<u>13-5-12</u> 6-8-0	13-7 # 0-1-	-8 12		27-11- 14-3-	03		ł	
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-MSH	0.55 0.33 0.17	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.09 0.01	(loc) 30 30-31 21	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 211 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS JOINTS REACTIONS (Ib) -	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing, Except: 10-0-0 oc bracing: 3 1 Row at midpt 1 Brace at Jt(s): 9, 7, 11 MiTek recommends required cross brac truss erection, in ac Installation guide. All bearings 14-7-0. et Max Horiz 31=202 (L Max Uplift All uplift 1 21, 22, 23 31 Max Grav All reaction (s) 21, 22 except 29 (LC 2)	eathing directly applied o cept end verticals. applied or 6-0-0 oc 0-31. 12-28, 13-27 that Stabilizers and ing be installed during coordance with Stabilizer except 31=0-3-8 .C 12) 00 (lb) or less at joint(s) 8, 24, 25, 26, 27, 28, 29, ns 250 (lb) or less at joint , 23, 24, 25, 26, 27, 28 =540 (LC 25), 31=592	 2) Wind: ASCE Vasd=103my II; Exp B; En Exterior(2E) 13-11-8, Ext 16-11-8 to 2 exposed; er members an Lumber DOI 3) Truss desig only. For stu see Standar or consult qu 4) TCLL: ASCE Plate DOL= DOL=1.15 P 5) This truss ha load of 12.0 overhangs n 6) All plates are 7) Truss to be f braced again 8) Gable studs 9) * This truss I on the botton 3-06-00 tall 1 Chor All and an Chor And an Chor And an Chor And an Chor And And An Chor And And An Chor And And An Chor An Chor An Chor An Chor An Chor An	7-16; Vult=130mp ph; TCDL=6.0psf; E tolosed; MWFRS (e -0-11-8 to 2-0-8, Ir erior(2R) 13-11-8 tr 7-9-4 zone; cantiler d vertical left and 1 d forces & MWFRS _=1.60 plate grip D ned for wind loads uds exposed to wind d Industry Gable E Jalified building des 7-16; Pr=20.0 psf; 1.15); Pg=20.0 psf; 1.20, Pg=20.0 psf; 1.20, Pg=20.0 psf; 1.20, Pg=20.0 psf; 2.20, Ct=1.1 as been designed f psf or 2.00 times fl on-concurrent with e 2x4 MT20 unless fully sheathed from nst lateral moveme spaced at 2-0-0 oc has been designed m chord in all areas by 2-00-00 wide wi y other members.	h (3-sec 3CDL=6 envelope terior (1 o 16-11- ver left a right exp S for rea OL=1.3; in the p d (norm nd Deta signer a: (roof LL Pf=13.; =1.0; Ro 0 or great at roof lu other lii other lii other vii one fac for a liv s where II fit betv	cond gust) .0psf; h=25f a) and C-C) 2-0-8 to 8, Interior (1 and right bosed; C-C for tions show alane of the tr al to the facci ils as applic. s per ANSI/T .: Lum DOL= D psf (Lum bough Cat B; er of min roc boad of 13.9 p ve loads. se indicated te or securel liagonal web re load of 20 a rectangle veen the bot mded to com	t; Cat.) or n; eb, able, FPI 1. =1.15 Fully of live psf on y Opsf tom					
TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance design.	(ib) - Max. Comp./M (lb) or less except w 2-3=-566/143, 2-31= 5-7=-484/90, 7-9=-5 30-31=-182/411 12-28=-253/11, 11-3 11-29=-412/106	ax. ren All forces 250 hen shown. 520/155, 3-5=-476/87, 14/106, 9-11=-556/127 0=-90/433, e been considered for thi	truss to bear 27, 26, 25, 2 uplift only ar 11) This truss is International R802.10.2 a 12) Graphical pu or the orient bottom chore LOAD CASE(S)	ring walls due to UI (4, 23, 22, and 29. Ind does not conside designed in accorr Residential Code nd referenced stan urlin representation ation of the purlin a d. Standard	PLIFT at This cor er latera dance w sections dard AN does no long the	t jt(s) 31, 21, inection is fo l forces. ith the 2018 s R502.11.1 iSI/TPI 1. of depict the e top and/or	, 28, or and size					

Job	Truss	Truss Type	Qty	Ply		
22050129 - Base house	C2	Common	5	1	Job Reference (optional)	
Carter Components - Sanford, S	anford, NC, user	Run: 8.53 S Mar 28 2	022 Print: 8.	.530 S Mar 2	28 2022 MiTek Industries, Inc. Wed May 25 14:19:31	Page: 1

ID:Aqj28FhiHZWfzB5lu9ixrhzD8Os-LIEbwZBZcX539n?XmWaSci8F502pf0o8qQgKdwzD5fw 7-1-8 13-11-8 20-9-8 27-11-0 7-1-8 6-10-0 6-10-0 7-1-8 4x5= 5 3x5、 3x5 🤞 ⁶16 4¹⁵ 8¹² 3x5 -3x5、 3 7 10-2-13 10-3-3 8 W2 Ŵ 0-11-3 V1 9 Ø 13 12 11 10 10x12= 10x12= 4x5= 3x8= 3x5= 4x5= 7-1-8 13-11-8 20-9-8 27-11-0 7-1-8 6-10-0 6-10-0 7-1-8 Plate Offsets (X, Y): [9:Edge,0-8-2], [14:Edge,0-8-2] 2-0-0 CSI DEFL L/d PLATES GRIP (psf) Spacing in (loc)l/defl Plate Grip DOL 20.0 1.15 TC 0.71 Vert(LL) -0.05 12-13 >999 240 MT20 244/190 13.9/20.0 Lumber DOL 1.15 BC 0.42 Vert(CT) -0.12 12-13 >999 180 10.0 Rep Stress Incr YES WB 0.37 Horz(CT) 0.03 9 n/a n/a IRC2018/TPI2014 Matrix-MSH 0.0 Code 10.0 Weight: 169 lb FT = 20% 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 TOP CHORD 2x4 SP No.2 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum 2x4 SP No.2 DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10 2x4 SP No.3 This truss has been designed for greater of min roof live 4) load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on Structural wood sheathing directly applied or overhangs non-concurrent with other live loads. 3-9-5 oc purlins, except end verticals. * This truss has been designed for a live load of 20.0psf 5) Rigid ceiling directly applied or 10-0-0 oc on the bottom chord in all areas where a rectangle bracing. 3-06-00 tall by 2-00-00 wide will fit between the bottom 1 Row at midpt 3-12, 7-12 chord and any other members. MiTek recommends that Stabilizers and One RT7A MiTek connectors recommended to connect 6) required cross bracing be installed during truss to bearing walls due to UPLIFT at jt(s) 14 and 9. truss erection, in accordance with Stabilizer This connection is for uplift only and does not consider Installation guide. lateral forces. This truss is designed in accordance with the 2018 9=934/0-3-8, (min. 0-1-8), 14=989/0-3-8, (min. 0-1-8) REACTIONS (lb/size) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. Max Horiz 14=202 (LC 10) LOAD CASE(S) Standard

Max Grav 9=1104 (LC 2), 14=1172 (LC 2) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1475/142, 3-4=-1072/174, 4-15=-947/177, 5-15=-944/197, 5-6=-928/198, 6-16=-946/178, 7-16=-1074/168, 7-8=-1475/141, 2-14=-1105/154, 8-9=-1036/115 13-14=-189/472, 12-13=-55/1139, BOT CHORD 11-12=-49/1141, 10-11=-49/1141, 9-10=-52/260 WEBS 2-13=0/801, 3-12=-474/129, 5-12=-77/685, 7-12=-483/131, 8-10=0/886

NOTES

Scale = 1:66.2

Loading

TCDL

BCLL

BCDL

LUMBER

WEBS

WEBS

BRACING

BOT CHORD

TOP CHORD

BOT CHORD

TCLL (roof)

Snow (Pf/Pg)

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

Wind: ASCE 7-16; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-8 to 2-0-8, Interior (1) 2-0-8 to 13-11-8, Exterior(2R) 13-11-8 to 16-11-8, Interior (1) 16-11-8 to 27-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

Job		Truss		Truss Ty	ре		Qty	Т	Ply					
22050129 -	Base	СЗ		Commo	n Girder		1		2	Job Refere	nce (opt	tional)		
Carter Compone	nts - Sanford,	Sanford, N	C, user			Run: 8.53 S M	ar 28 2022 P	rint: 8.5	530 S Mar 2	8 2022 MiTek	Industries	s, Inc. V	Ved May 25 14:	19:31 Page: 1
							ID	:2sU_Y	'RxtL0Ag_C	Bnd3btB6zD8	3OX-LIEb	wZBZc)	K539n?XmWaSo	:i8JD00TfwV8qQgKdwzD5fw
			3-0-0	<u>4-10-0</u> 1-10-0	<u>9-5-4</u> 4-7-4	<u>13-11-8</u> 4-6-4	3	<u>18-6-</u> 4-6-1	6 4	<u>23-2-3</u> 4-7-13		<u>27-</u> 4-8	<u>11-0</u> -13	
							5x10ıı							
		<u> </u>												
						4x6 #		12	5x8.	•				
						4x5 ¢		\backslash	\$ 0XC					
					812									
		-13	6	x8ø 3x6	.//		W7				3×5			
		10-2	3x5 ≉	4	T1	W5 W6		X	18 W9	I	1 10			
			3		\sim			9/		/	\gg	$\overline{\ }$	3x5⊾	
			2		W4		$\parallel \parallel /$			W10	W11		11	
		0_11_					NK						Xew/112	
) 19	29	3018 31	32 17 33	16	34 153	5 36	<u>182</u> 14	37	13 <u>⊗</u>	
			10x12= ^{3x}	61	,	10x12=	12x16=		10>	(12=	3x6∎		10x12=	
			THD26	8x10=	THD26 TH	ID26 THD26 T	HD26	8x10	= THC	026 THD26	THD26	THD2	⁶ THD26	
			THD	26 THD2	6		I HD	26 11	HD26					
Scale = 1:68.4			<u> </u>	4-10-0 1-10-0	<u>9-5-4</u> 4-7-4	<u>13-11-8</u> 4-6-4	3	<u>18-6-</u> 4-6-1	6 4	<u>23-2-3</u> 4-7-13	-	<u>27-</u> 4-8	-13	
Plate Offsets (2	X, Y): [1:Edg	je,0-6-1],	[3:0-4-0,0-3-12], [5:0)-1-0,0-1-8	8], [8:0-1-9,0-	2-8], [12:Edge,(0-6-1], [15:0)-3-8,0)-6-4], [17	:0-8-0,0-6-4]	l, [18:0-3	8-8,0-6	-0], [19:0-3-8,	,0-6-0]
Loading	-	(psf)	Spacing		2-0-0	CSI		DEF	L	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) Snow (Pf/Pg)	13.9	20.0 9/20.0	Plate Grip DOL Lumber DOL		1.15 1.15	TC BC	0.51 0.57	Vert(Vert(LL) -0 CT) -0).18 17-18).34 17-18	>999 >961	240 180	MT20	244/190
TCDL		10.0	Rep Stress Incr	IRC20	NO 18/TPI2014	WB Matrix-MSH	0.71	Horz	(CT) (0.11 12	n/a	n/a		
BCDL		10.0	oode		10/11/12/014								Weight: 523	lb FT = 20%
LUMBER				1)	2-ply truss to	be connected	together wi	th 10d	l (0.131"x:	3") 11) Use	MiTek 1	THD26	(With 18-16d	I nails into Girder &
TOP CHORD BOT CHORD	2x6 SP No. 2x8 SP 240	.2 *Excep)0F 2.0E	t* T1:2x6 SP 2400F	2.0E	nails as follo Top chords of	ws: connected as fo	llows: 2x6 -	2 row	s stagger	12-' ed 2-0-	10d x 1-′ ∙0 oc ma	1/2 nai x. star	ls into Truss) ting at 1-0-0 f	or equivalent spaced at rom the left end to 27-0-0
WEBS	2x4 SP No.	3 *Excep	t* W7:2x4 SP 2400F	:	at 0-9-0 oc. Bottom chor	ds connected a	s follows: 2	x8 - 3	rows	to c SP)	onnect t . A4 (1 p	russ(e olv 2x4	s) Ā2 (1 ply 2) SP), A8 (1 pl	k4 SP), A3 (1 ply 2x4 v 2x4 SP), A5 (1 ply 2x4
SLIDER	Left 2x4 SF	P No.3 1	1-6-0, Right 2x4 SP I	No.3	staggered a	0-5-0 oc.	2x4 - 1 row	at 0_0		SP)	, A6 (1 p	ly 2x4	SP), A7 (1 pl	y 2x4 SP) to front face of
BRACING	1-6-0			2)	All loads are	considered equ	ually applie	d to al	l plies,	12) Fill	all nail h	u. oles w	here hanger i	s in contact with lumber.
TOP CHORD	Structural v	wood she	athing directly applie	d or	except if not CASE(S) se	ed as front (F) o ction. Ply to ply	connection	tace ir s have	n the LOA e been	D LOAD (1) De	CASE(S) ad + Sn) Star ow (ba	idard alanced): Lum	ber Increase=1.15, Plate
BOT CHORD	Rigid ceilin	g directly	applied or 10-0-0 oc	;	provided to unless other	distribute only lo wise indicated.	bads noted	as (F)	or (B),	Inc	rease=1	.15 ads (II	o/ft)	
WEBS	bracing. 1 Row at m	nidpt	5-17, 9-17	3)	2x8 SP 2400 attached to 0)F 2.0E bearing each face with	block 12" I 4 rows of 1	ong at 0d (0. ⁻	: jt. 12 131"x3")	0.	Vert: 1-7	=-48,	7-12=-48, 21-	25=-20
REACTIONS	(lb/size) 1	=11120/0)-3-8, (req. 0-5-8),		nails spaced	l 3" o.c. 16 Tota to be SP 2400E	l fasteners	per blo	ock. Beari	ng ,	Vert: 19	ed L03	ads (ib) 5, 14=-817, 20	=-1336, 13=-819,
	(2=9649/(req. 0-4-1	0-3-8 + bearing bloc 10)	к), 4)	Unbalanced	roof live loads l	have been	consid	lered for th	nis	23=-133 32=-171	7, 29= 9, 33=	-1336, 30=-18 -1719, 34=-17	526, 31=-1796, 719, 35=-1719,
	Max Horiz 1 Max Grav 1	=173 (LC =13275 (C 31) [LC 20), 12=11188 (L	.C 5)	Wind: ASCE	7-16; Vult=130	mph (3-sec	ond g	ust)	:	36=-110	1, 37=	-817	
FORCES	2 (lb) - Max (21) Comp /M:	ax Ten - All forces 2	50	Vasd=103m II; Exp B; Er	ph; TCDL=6.0ps closed; MWFR	sf; BCDL=6 S (envelope	.0psf; e); can	h=25ft; C itilever lef	at. t				
	(lb) or less	except w	hen shown.		and right exp Lumber DOI	oosed ; end ver _=1.60 plate gri	tical left and p DOL=1.33	d right 3	exposed;					
TOP CHORD	1-2=-11798 4-5=-14955	5/0, 2-3=- 5/0, 5-6=-	16238/0, 3-4=-17019 11566/0, 6-7=-11556	9/0, 6) 5/0, 6)	TCLL: ASCE	7-16; Pr=20.0	psf (roof LL	: Lum	DOL=1.1	5				
	7-8=-11575 10-11=-152	/0, 8-9=- ?79/0, 11-	11581/0, 9-10=-1428 12=-10776/0	5/0,	DOL=1.15 P	late DOL=1.15)); ls=1.0; Ro	bugh C	Cat B; Full	у				
BOT CHORD	1-20=0/129 19-29=0/14	86, 19-20 594, 29-3	0=0/12986, 30=0/14594.	7)	* This truss	has been desigi	ned for a liv	e load	l of 20.0ps	sf				
	18-30=0/14 31-32=0/12	594, 18-3 469 17-4	31=0/12469, 32=0/12469		on the botto 3-06-00 tall	m chord in all ai	reas where will fit betv	a rect veen t	angle he bottom	I				
	17-33=0/11	915, 16-3	33=0/11915,	8)	chord and a WARNING:	ny other membe Required bearir	ers. ng size at jo	int(s)	1 greater					
	16-34=0/11915, 15-34=0/11915, tt 15-35=0/12403, 35-36=0/12403, tt 14-35=0/12403, 4-37=0/12403, 9) C					earing size. IiTek connector	s recomme	nded t	-	t				
	14-36=0/12403, 14-37=0/12403, 9) 01 13-37=0/12403, 12-13=0/12403 true Table 1					ing walls due to	UPLIFT at	jt(s) 1	and 12.					
WEBS	7-17=0/12389, 5-17=-4973/0, 4-19=0/2072, 4-18=-2690/0, 5-18=0/5849, 9-17=-4119/0,					dooignod in -		-co 110	2019					
	9-15=0/464 3-19=0/264	3, 10-15 4, 3-20=-	=-712/0, 10-14=0/128 -1098/0	80, 10)	International	Residential Co	de sections	R502	2018 2.11.1 and					
NOTES		, - - 0			R802.10.2 a	nd referenced s	standard AN	ISI/TP	'I 1.					

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base house	D1	Common Supported Gable	1	1	Job Reference (optional)

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Wed May 25 14:19:32 Page: 1 ID:Aqj28FhiHZWfzB5lu9ixrhzD8Os-pxnz8uBBNrDwnwajKD5h8vhYfQSaOTWI34Pt9NzD5fv



20-7-0

Scale = 1:68.3

Loading	(psf) S	pacing	2	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0 PI	late Grip DOL		1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0 Lu	umber DOL		1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0 R	Rep Stress Incr		YES	WB	0.34	Horz(CT)	0.00	14	n/a	n/a		
BCLL	0.0* C	ode	IRC2018/TPI2	2014	Matrix-MR								
BCDL	10.0											Weight: 167 lb	FT = 20%
LUMBER			3) Truss	design	ed for wind lo	ads in the p	lane of the t	uss					
TOP CHORD	2x4 SP No.2		only. F	or stud	ds exposed to	wind (norm	nal to the fac	e),					
BOT CHORD	2x4 SP No.2		see St	andard	I Industry Gab	le End Deta	ails as applic	able,					
WEBS	2x4 SP No.3		or con	sult qua	alified building	designer a	is per ANSI/1	PI 1.					
OTHERS	2x4 SP No.3		4) TCLL:	ASCE	7-16; Pr=20.0) pst (root L	L: Lum DOL=	=1.15					
BRACING			Plate L	OL=1.	.15); Pg=20.0	pst; Pt=13.	9 pst (Lum	-					
TOP CHORD	Structural wood sheath	ning directly applied o	r Evp. (ate DOL=1.15); IS=1.0; R −1 10	ougn Cat B;	Fully					
	6-0-0 oc purlins, excep	pt end verticals.	5) This tri	100.9,	, CS-1.00, Cl- s been design	- 1.10 ed for great	ter of min roc	of live					
BOT CHORD	Rigid ceiling directly ap	oplied or 6-0-0 oc	load of	135 Has 12 0 n	s been design	es flat roof l	ler of 13 9	n live hsf on					
	bracing.		overha	nas no	on-concurrent	with other li	ive loads	551 011					
WEBS	1 Row at midpt 8-2	20, 7-21, 9-19	— 6) All plat	es are	2x4 MT20 un	less otherw	ise indicated						
	MiTek recommends the	nat Stabilizers and	7) Gable	reauire	es continuous	bottom cho	rd bearing.	-					
	required cross bracing	g be installed during	8) Truss t	o be fu	ally sheathed f	from one fac	ce or securel	y					
	truss erection, in acco	ordance with Stabilizer	braced	agains	st lateral move	ement (i.e. o	diagonal web).					
	Installation guide.		9) Gable	studs s	spaced at 2-0-	-0 oc.							
REACTIONS	All bearings 20-7-0		10) * This	russ ha	as been desig	ned for a liv	ve load of 20	.0psf					
(lb) -	Max Horiz 25=233 (I C	10)	on the	bottom	n chord in all a	areas where	a rectangle						
()	Max Uplift All uplift 100	(lb) or less at joint(s)	3-06-0	U tall b	y 2-00-00 wid	e will fit bety	ween the bot	tom					
	14. 16. 17. 19	9. 21. 22. 23 except	chord a	and any	y other memb	ers.	are) of truco	ta					
	15=-120 (LC	14), 24=-136 (LC 10)), Provid	e mecn	capable of wi	thetanding	100 lb uplift of	10 nt ioint					
	25=-132 (LC	9)	(e) 1/	21 22	23 10 17 1	6 excent (it	=lb) 25=132	at joint					
	Max Grav All reactions	250 (lb) or less at joir	1t 24=13i	21, 22 3 15=1	, 20, 10, 17, 1 110	o except (ji	-10) 20-102,						
	(s) 14, 16, 17	7, 19, 21, 22, 23, 24	12) This tr	uss is c	designed in ac	cordance w	vith the 2018						
	except 15=25	57 (LC 26), 20=320	Interna	tional I	Residential Co	ode section	s R502.11.1	and					
	(LC 14), 25=	258 (LC 26)	R802.1	10.2 an	d referenced	standard Al	NSI/TPI 1.						
FORCES	(lb) - Max. Comp./Max. (lb) or less except when	. Ten All forces 250 n shown.	LOAD CAS	SE(S)	Standard								
TOP CHORD	5-6=-189/338. 6-7=-173	3/344. 7-8=-237/434.											
	8-9=-237/434, 9-10=-18	89/344											
WEBS	8-20=-533/229												
NOTES													
1) Unbalanc	ed roof live loads have be	een considered for thi	s										
, design.													
2) Wind: AS	CE 7-16; Vult=130mph (3	3-second gust)											
Vacd-103	mph TCDI -6 Opef BCD	$1 - 6 0 \text{ pcf} + 25 \text{ ft} \cdot C \text{ of}$											

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Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -0-11-4 to 2-3-8, Exterior(2N) 2-3-8 to 10-3-8, Corner(3R) 10-3-8 to 13-3-8, Exterior(2N) 13-3-8 to 20-5-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base house	D2	Common	5	1	Job Reference (optional)

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	Į 5-3-8	10-3-8	15-3-8	լ 20-7-0	L
Scale = 1:71.5	1 5-3-8	1 5-0-0	5-0-0	1 5-3-8	1
Plate Offsets (X, Y): [2:0-3-7,0-1-8], [7:0-3-7,Edge]					

	()) [, ,											-	
Loading		(psf)	Spacing		2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (ro	of)	20.0	Plate Grip DOL		1.15	тс	0.34	Vert(LL)	-0.02	11	>999	240	MT20	244/190
Snow (Pl	/Pg) 13.	.9/20.0	Lumber DOL		1.15	BC	0.21	Vert(CT)	-0.04	11-12	>999	180		
TCDL		10.0	Rep Stress Incr		YES	WB	0.42	Horz(CT)	0.01	8	n/a	n/a		
BCDI		10.0	Code	IRC20	118/1912014	Matrix-MSH							Weight: 151 lb	FT = 20%
		10.0											Weight. 101 lb	
LUMBER	R			4)	This truss ha	as been designed f	or great	er of min roo	of live					
TOP CHO	ORD 2x4 SP No	o.2		-	load of 12.0	psf or 2.00 times fl	at roof l	oad of 13.9 p	osf on					
BOT CH	ORD 2x4 SP No	o.2			overhangs r	on-concurrent with	other li	ve loads.						
WEBS	2x4 SP No	o.3		5)	* This truss	has been designed	for a liv	/e load of 20.	.0psf					
BRACIN	G				on the botto	m chord in all areas	s where	a rectangle	tom					
TOP CHO	ORD Structural	wood she	eathing directly applied	or	chord and a	by 2-00-00 wide wi	ii iii beli		loni					
DOTOU	5-11-11 oc	c purlins,	except end verticals.	6)	One RT7A M	liTek connectors re	comme	ended to conr	nect					
BOT CH		ng airectiy	y applied or 10-0-0 oc	,	truss to bea	ing walls due to UI	PLIFT a	t jt(s) 13 and	8.					
			- that Otabilizana and		This connec	tion is for uplift only	/ and do	pes not consi	ider					
	required	cross brac	s that Stabilizers and	-	lateral force	S.		"the the 2010						
	truss erec	ction. in a	ccordance with Stabilize	er ')	Internationa	Residential Code	section	R502 11 1	and					
	Installatio	n guide.			R802.10.2 a	nd referenced stan	dard Al	NSI/TPI 1.	unu					
DEACT		0-000/0	0.0 (AD CASE(S)	Standard								
REACTION	JNS (ID/SIZE)	0-000/0-	3-6, (11111. $0-1-6$), 3-3-8 (min $0-1-8$)		- (-)									
	Max Horiz	13=233 (I C 12)											
	Max Grav	8=810 (L	C 2), 13=879 (LC 2)											
FORCES	(lb) - Max.	Comp./M	lax. Ten All forces 250)										
	(lb) or less	s except w	vhen shown.											
TOP CHO	ORD 2-3=-852/	115, 3-4=-	-648/171, 4-5=-531/209	,										
	5-14=-531	/210, 6-14	4=-649/172, - 000/400 7 0- 704/00											
	//0-7=-85U	110, 2-13	=-829/130, 7-8=-761/92											
DOT CH	10-11=-15	/533_9-10	0=-15/533											
WEBS	3-11=-292	/155. 5-11	1=-173/525.											
	6-11=-299	/156, 2-12	2=0/437, 7-9=0/456											
NOTES														
1) Unba	lanced roof live l	oads have	e been considered for th	nis										
		t-120mpl	h (2 accord quat)											
2) Wind Vasd	=103mph: TCDI :	=6 Onsf: F	RCDI =6 0nsf: h=25ft: C:	at										
II: Ex	p B: Enclosed: M	IWFRS (e	envelope) and C-C											
Exter	ior(2E) -0-11-4 to	o 2-0-12, I	nterior (1) 2-0-12 to											
10-3-	8, Exterior(2R) 1	0-3-8 to 1	3-3-8, Interior (1) 13-3-	В										
to 20	-5-4 zone; cantile	ever left a	nd right exposed ; end											
force	s & MWFRS for r	eactions	shown: Lumber											
DOL	=1.60 plate arip D	OOL=1.33	chown, Lumbor											
3) TCLL	: ASCE 7-16; Pr	=20.0 psf	(roof LL: Lum DOL=1.1	5										
Plate	DOL=1.15); Pg=	20.0 psf;	Pf=13.9 psf (Lum											
DOL	=1.15 Plate DOL=	=1.15); ls:	=1.0; Rough Cat B; Full	у										
Exp.;	Ce=0.9; Cs=1.00	0; Ct=1.10	D											

Job	Truss	Truss Type	Qty	Ply		
22050129 - Base house	D3	Common	6	1	Job Reference (optional)	
Carter Components - Sanford, S	anford, NC, user	Run: 8.53 S Mar 28 2	022 Print: 8.	530 S Mar 2	8 2022 MiTek Industries, Inc. Wed May 25 14:19:32	Page: 1



			5-3-8	I	10-3-8	15-3-	8 1	2	0-7-0	1		
Scale = 1:68.9			5-3-8	ſ	5-0-0	5-0-0	<u> </u>		5-3-8			
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL	(psf) 20.0 13.9/20.0 10.0 0.0*	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-MSH	0.34 0.21 0.42	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.04 0.01	(loc) 9 9-10 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0										Weight: 149 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 5-11-9 oc purlins, e Rigid ceiling directly bracing. MiTek recommende required cross brac truss erection, in au Installation guide.	eathing directly applied of except end verticals. / applied or 10-0-0 oc s that Stabilizers and ing be installed during ccordance with Stabilize	 4) * This truss on the botto 3-06-00 tall chord and a 5) One RT7A I truss to bea This connec lateral force 6) This truss is Internationa R802.10.2 a LOAD CASE(S) 	has been des m chord in all by 2-00-00 wi ny other mem diTek connect ring walls due tion is for upli s. designed in a l Residential (ind referenced Standard	igned for a liv areas where de will fit betw bers. ors recomme to UPLIFT a ft only and do accordance w Code sections d standard AN	re load of 20 a rectangle veen the bot nded to conin t jt(s) 11 and ves not cons ith the 2018 s R502.11.1 ISI/TPI 1.	.0psf tom nect 6. ider and					
REACTIONS	(lb/size) 6=687/0-3 11=687/0 Max Horiz 11=-219 (3-8, (min. 0-1-8), -3-8, (min. 0-1-8) L C 11)										
	Max Grav 6=812 (L0	C 2), 11=812 (LC 2)										
FORCES TOP CHORD	(lb) - Max. Comp./M (lb) or less except w 1-2=-852/110, 2-12= 3-13=-533/211, 4-13 1-11=-763/92, 5-6=-	ax. Ten All forces 250 /hen shown. =-652/172, 3-12=-533/2 ⁻¹ 3=-652/172, 4-5=-852/11 763/92	11, 10,									
BOT CHORD	10-11=-214/267, 9-1 7-8=-15/534	10=-46/594, 8-9=-15/534	4,									
WEBS	1-10=0/457, 5-7=0/4	457, 2-9=-299/157,										
NOTES 1) Unbalanc design. 2) Wind: AS Vasd=103 II; Exp B; Exterior(2) 10-3-8, E: to 20-5-4	ed roof live loads have CE 7-16; Vult=130mpt mph; TCDL=6.0psf; E Enclosed; MWFRS (e (E) 0-1-12 to 3-1-12, Ir xterior(2R) 10-3-8 to 1 zone: carliever left at	e been considered for th n (3-second gust) CDL=6.0psf; h=25ft; Ca nvelope) and C-C tterior (1) 3-1-12 to 3-3-8, Interior (1) 13-3-5 dright exposed - end	is at.									
vertical le forces & M DOL=1.60 3) TCLL: AS Plate DOI DOL=1.15 Exp.; Ce=	ft and right exposed;C WFRS for reactions : 0 plate grip DOL=1.33 CE 7-16; Pr=20.0 psf; L=1.15); Pg=20.0 psf; 5 Plate DOL=1.15); Is= :0.9; Cs=1.00; Ct=1.10	C for members and shown; Lumber (roof LL: Lum DOL=1.1{ Pf=13.9 psf (Lum =1.0; Rough Cat B; Fully)	5									

Job	Truss	Truss Type	Qty	Ply		
22050129 - Base house	D4	Common	2	1	Job Reference (optional)	
Carter Components - Sanford, S	Run: 8.53 S Mar 28 2	022 Print: 8.	530 S Mar 2	8 2022 MiTek Industries, Inc. Wed May 25 14:19:32	Page: 1	

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6 Ø

			2x4∎		4x5=		3x8=	= 3x5=	3x5=		2x4∎			
Scale = 1:67.1			}—	<u>5-3-14</u> 5-3-14	+	<u>10-3-8</u> 4-11-10		<u>14-1-6</u> 3-9-14	18	<u>3-3-8</u> -2-2	\rightarrow			
Loading TCLL (roof) Snow (Pf/Pg) TCDL	(psf) 20.0 13.9/20.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr		2-0-0 1.15 1.15 YES	CSI TC BC WB		0.34 0.20 0.50	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.03 0.01	(loc) 9 9-10 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0*	Code	IRC2	018/TPI2014	Matrix	x-MSH							Weight: 146 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. 1 Row at midpt	eathing directly applied cept end verticals. / applied or 10-0-0 oc 4-9	3) 4) or 5)	TCLL: ASCI Plate DOL= DOL=1.15 F Exp.; Ce=0. * This truss on the botto 3-06-00 tall chord and a One RT7A N truss to bea	E 7-16; 1.15); F Plate DC 9; Cs=1 has bee m chore by 2-00 ny othe MiTek co ring wa	Pr=20.0 psf Pg=20.0 psf; DL=1.15); ls 1.00; Ct=1.1 en designed d in all area: 0-00 wide wi r members. onnectors re lls due to UI lls due to UI	(roof LI Pf=13.9 =1.0; Ro for a liv s where Il fit betw ecomme PLIFT a	.: Lum DOL 9 psf (Lum ough Cat B; re load of 2(a rectangle veen the bc nded to cor t jt(s) 11 and	=1.15 ; Fully 0.0psf bittom nnect d 6.					
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.			er 6)	lateral forces.) 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.										
REACTIONS	(Ib/size) 6=609/0-3 11=609/0- Max Horiz 11=243 (L Max Gray, 6=720 (L	3-8, (min. 0-1-8), -3-8, (min. 0-1-8) -C 10) C 2), 11=720 (I C 2)		OAD CASE(S)	Stand	lard								
FORCES	(lb) - Max. Comp./M	ax. Ten All forces 250)											
(lb) or less except when shown. TOP CHORD 1-12=-745/88, 2-12=-581/112, 2-13=-534/178, 3-13=-413/216, 3-14=-423/220, 4-14=-501/191, 4-15=-374/128, 5-6=-682/101, 1.11=-672/04, 5-6=-682/101														
BOT CHORD	10-11=-238/263, 9-1 8-9=-64/322, 7-8=-6	10=-125/522, 54/322												
WEBS	1-10=0/383, 3-9=-20 5-7=-35/400	06/436, 2-9=-314/172,												
NOTES 1) Unbalance design. 2) Wind: ASG Vasd=103 II; Exp B; Exterior(2 10-3-8, Ex to 18-1-12 vertical lef forces & M	ed roof live loads have CE 7-16; Vult=130mpf imph; TCDL=6.0psf; B Enclosed; MWFRS (e E) 0-1-12 to 3-1-12, Ir derior(2R) 10-3-8 to 1 2 zone; cantilever left a ft and right exposed;C MWFRS for reactions of	e been considered for th (3-second gust) CCL=6.0psf; h=25ft; C nvelope) and C-C nterior (1) 3-1-12 to 3-3-8, Interior (1) 13-3- and right exposed; end -C for members and shown: Lumber	nis at. 8											

DOL=1.60 plate grip DOL=1.33

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base house	E1	Common Supported Gable	1	1	Job Reference (optional)

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One RT7A 12-4-8

Scale = 1	:55.6
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see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

			ļ						1			
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0*	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-MR	0.14 0.09 0.32	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. MiTek recommends required cross brac truss erection, in ad	eathing directly applied or ccept end verticals. / applied or 6-0-0 oc s that Stabilizers and cing be installed during ccordance with Stabilizer	 4) TCLL: ASCE Plate DOL= DOL=1.15 F Exp.; Ce=0. 5) This truss ha load of 12.0 overhangs r 6) All plates ar 7) Gable requit 8) Truss to be braced agai 9) Gable studs 10) * This truss on the botto 	E 7-16; Pr=20.0 1.15); Pg=20.0 Plate DOL=1.15) 9; Cs=1.00; Ct= as been designe psf or 2.00 time psf or 2.00 time psf or 2.00 time ton-concurrent v e 2x4 MT20 unluters fully sheathed fr nst lateral move spaced at 2-0-0 has been design m chord in all ar	psf (roof LL osf; Pf=13.9); Is=1.0; Ro 1.10 ed for great es flat roof Ik with other lin ess otherwi bottom chor om one fac ment (i.e. c 0 oc. ned for a liv reas where	.: Lum DOL= 9 psf (Lum ough Cat B; oad of 13.9 g ve loads. se indicated d bearing. ve or securel liagonal web e load of 20. a rectande	=1.15 Fully of live posf on y .).				weignt: 84 ib	F1 = 20%
REACTIONS (lb) -	All bearings 12-4-8. Max Horiz 15=161 (I Max Uplift All uplift 1 9, 10, 11, (LC 10) Max Grav All reactio (s) 9, 10,	LC 10) 00 (lb) or less at joint(s) 13, 15 except 14=-102 ons 250 (lb) or less at joir 11, 12, 13, 14, 15	3-06-00 tall chord and a 11) One RT7A M truss to beau 13, 14, 11, a does not cor 12) This truss is Internationa R802.10.2 a	by 2-00-00 wide ny other member diTek connector: ring walls due to nd 10. This con sider lateral for designed in acc Residential Co nd referenced s	e will fit betw ers. s recomme o UPLIFT at nection is f rces. cordance w de sections standard AN	veen the bot nded to con ; jt(s) 15, 9, 1 or uplift only ith the 2018 ; R502.11.1 ; ISI/TPI 1.	tom nect 12, and and					
 FORCES TOP CHORD WEBS NOTES 1) Unbalance design. 2) Wind: ASC Vasd=103r II; Exp B; E (3E) -0-11. Corner(3R 12-2-12 zc vertical left forces & M DOL=1.60 3) Truss des only Ecc 	(ID) - Max. Comp./M (Ib) or less except w 4-5=-231/283, 5-6=- 5-12=-329/203 ed roof live loads have CE 7-16; Vult=130mpf mph; TCDL=6.0psf; E Enclosed; MWFRS (e 4 to 2-3-12, Exterior() 6-3-12 to 9-3-12, E) one; cantilever left and cant cant right exposed; C IWFRS for reactions s plate grip DOL=1.33 igned for wind loads i stude exposed to wind	lax. Ien All forces 250 when shown. -231/283 e been considered for this in (3-second gust) GCDL=6.0psf; h=25ft; Cat invelope) and C-C Corne 2N) 2-3-12 to 6-3-12, where the two shown; Lumber in the plane of the truss d (normal to the face)	LOAD CASE(S)	Standard								

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base	E2	Common	2	1	Job Reference (optional)

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	One RT7A		
	6-3-12	12-4-8	
Scale = 1:54.6	6-3-12	6-0-12	1
Plate Offsets (X, Y): [2:Edge.0-3-9]. [4:0-1-12.0-1-8]			

	<, i). [z.Luge,0-3-9],	[4.0-1-12,0-1-0]										
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-MSH	0.70 0.23 0.11	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.03 0.00	(loc) 6 6-7 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 78 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. MiTek recommends required cross brac truss erection, in at Installation guide.	eathing directly applied coept end verticals. / applied or 10-0-0 oc s that Stabilizers and cing be installed during ccordance with Stabiliz	5) * This truss on the botto 3-06-00 tall chord and a 6) Refer to gird 7) One RT7A M truss to beau connection i forces. 8) This truss is International R802.10.2 a LOAD CASE(S)	has been designe m chord in all area by 2-00-00 wide w hy other members er(s) for truss to t liTek connectors r ing walls due to L s for uplift only an designed in accoo Residential Code nd referenced sta Standard	d for a liv as where vill fit betv s. russ com recomme JPLIFT a d does n rdance w e sections indard AN	re load of 20. a rectangle veen the bott nections. nded to conr t jt(s) 7. This ot consider la ith the 2018 s R502.11.1 a ISI/TPI 1.	Opsf tom nect ateral					
REACTIONS ((Ib/size) 5=407/ M 7=463/0-3 Max Horiz 7=161 (LC Max Grav 5=480 (LC	echanical, (min. 0-1-8) 3-8, (min. 0-1-8) C 10) C 2), 7=551 (LC 2)	,									
FORCES TOP CHORD BOT CHORD NOTES 1) Unbalance design. 2) Wind: ASC Vasd=103n II; Exp B; E Exterior(2E 6-3-12, Ext to 12-2-12 vertical left forces & M DOL=1.60 3) TCLL: ASC Plate DOL= DOL=1.15 Exp.; Ce=0 4) This truss f load of 12.0 overhangs	(lb) - Max. Comp./M (lb) or less except w 2-3=-459/104, 3-4=- 4-5=-428/93 6-7=-209/316 d roof live loads have E 7-16; Vult=130mph nph; TCDL=6.0psf; B Enclosed; MWFRS (e c) -0-11-4 to 2-0-12, li terior(2R) 6-3-12 to 9 Zone; cantilever left and right exposed; C WFRS for reactions s plate grip DOL=1.33 E 7-16; Pr=20.0 psf = 1.15); Pg=20.0 psf; Plate DOL=1.15); Is= .9; Cs=1.00; Ct=1.16 op sf or 2.00 times fla non-concurrent with	ax. Ten All forces 25 then shown. .443/99, 2-7=-496/116, .443/99,	0 his Cat. 12 d 15 Iy ve on									

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base house	E3	Common	3	1	Job Reference (optional)

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-1-0-0 <u>6-3-12</u> 6-3-12 <u>12-7-8</u> 6-3-12 **∤** 1-0-0 4x5= 3 12 12 7-6-15 7-7-4 5x8= 5x8= 2 4 1-3-3 7 **B1** 5 2x4 ∎ 6 2x4 II 4x8=

Scale = 1:54.6	6-3-12	12-7-8	,
	6-3-12	6-3-12	
Plate Offsets (X, Y): [2:Edge,0-3-9], [4:Edge,0-3-9]			

late Offsets	(X, Y):	[2:Edge,0-3-9],	[4:Edge,0-3-9]
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Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-MSH	0.69 0.24 0.10	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.03 0.00	(loc) 6 5-6 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 79 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. MiTek recommend: required cross brack truss erection, in at Installation guide. (lb/size) 5=415/0-1 7=472/0-1 Max Horiz 7=158 (L0 Max Grav 5=490 (L1 Max Grav 5=490 (L1)	eathing directly applied of ccept end verticals. y applied or 10-0-0 oc s that Stabilizers and cing be installed during ccordance with Stabilize 3-8, (min. 0-1-8), 3-8, (min. 0-1-8), C 10) C 2), 7=561 (LC 2)	 5) * This truss on the botto 3-06-00 tall chord and a 6) One RT7A N truss to beau connection i forces. 7) This truss is International R802.10.2 a LOAD CASE(S) 	has been designed m chord in all areas by 2-00-00 wide wil ny other members. MiTek connectors re ing walls due to UF s for uplift only and designed in accord Residential Code nd referenced stan Standard	for a liv s where Il fit betv comme PLIFT a does n dance w sections dard AN	e load of 20. a rectangle veen the bott nded to conr t jt(s) 7 and 5 ot consider la ith the 2018 s R502.11.1 a ISI/TPI 1.	Opsf tom hect 5. This ateral				Weight. 79 D	
TOP CHORD	(lb) or less except w 2-3=-471/104, 3-4=- 4-5=-436/94	when shown. -463/97, 2-7=-506/117,	,									
 BOT CHORD NOTES 1) Unbalance design. 2) Wind: ASC Vasd=103i II; Exp B; E Exterior(2) Exterior(2) Exterior(2) Exterior(2) Exterior(2) OL=5.12 vertical left forces & M DOL=1.60 3) TCLL: ASC Plate DOL DOL=1.15 Exp.; Ce=(4) This truss load of 12. overhangs 	6-7=-207/312 ed roof live loads have CE 7-16; Vult=130mpl mph; TCDL=6.0psf; E Enclosed; MWFRS (e E) -0-11-4 to 20-12, 1 terior(2R) 6-3-12 to 9 zone; cantilever left t and right exposed;C IWFRS for reactions : plate grip DOL=1.33 CE 7-16; Pr=20.0 psf; Plate DOL=1.15); Is: 0.9; CS=1.00; Ct=1.10 has been designed ft has been designed ft o psf or 2.00 times ft a non-concurrent with	e been considered for th h (3-second gust) 3CDL=6.0psf; h=25ft; Ca nvelope) and C-C nterior (1) 2-0-12 to I-3-12, Interior (1) 9-3-1; and right exposed ; end C for members and shown; Lumber (roof LL: Lum DOL=1.1 Pf=13.9 psf (Lum =1.0; Rough Cat B; Full; o or greater of min roof liv at roof load of 13.9 psf o other live loads.	nis at. 2 5 y e									

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base	E4	Common Girder	1	2	Job Reference (optional)

Page: 1

Carter Components - Sanford, Sanford, NC, user

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Wed May 25 14:19:33 ID:W22MInyV6JIXcamzBm66kKzD8OW-I8LMLECp88MnO49vuxcwh7Db6qkH7qDRHk9RipzD5fu 6-3-12 12-7-8 6-3-12 6-3-12 4x8∎ 2 12 12 7-6-15 MT20HS 8x12 " MT20HS 8x12 II 3 1 W2 ₩5 W ∏B1 'n'n ΠГ 4 X Š 6 10 11 5 12 8 9 8x10= 8x10=

THD26 THD26 THD26 THD26 THD26 THD26

	, 4-3-1	9-0-0	L 12-7-8	
Scale = 1:56.2	4-3-1	4-8-15	3-7-8	

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.06	5-6	>999	240	MT20	244/190
Snow (Pf/P	'g) 13.9/20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.11	5-6	>999	180	M120HS	187/143
TODL	10.0	Rep Stress Incr			0.76	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0 10.0	Code	IRC2018/1PI2014	Matrix-MSH							Weight: 182 lb	FT = 20%
	10.0										Weight. 102 lb	1 1 - 20 %
LUMBER			5) TCLL: ASC	E 7-16; Pr=20.0 p	sf (roof L	.: Lum DOL:	=1.15					
TOP CHOP	RD 2x4 SP No.1		Plate DOL=	1.15); Pg=20.0 ps	sf; Pf=13.	9 psf (Lum						
BOT CHOP	RD 2x6 SP 2400F 2.0E		DOL=1.15	Plate DOL=1.15);	ls=1.0; R	ough Cat B;	Fully					
WEBS	2x4 SP No.3 *Exce	pt* W1:2x4 SP No.1	Exp.; Ce=0.	9; Cs=1.00; Ct=1	.10							
BRACING			b) All plates ar 7) * This truck	e MT20 plates un	iless othe	rwise indicat	ed. Onof					
TOP CHOP	RD Structural wood she	eathing directly applied,	on the botto	m chord in all are	as where	a rectangle	.opsi					
	except end verticals	S	3-06-00 tall	by 2-00-00 wide	will fit bet	veen the bot	tom					
BOT CHOP	Rigid ceiling directly	y applied or 10-0-0 oc	chord and a	chord and any other members.								
	bracing.		8) One RT7A I	8) One RT7A MiTek connectors recommended to connect								
REACTION	IS (lb/size) 4=4640/0	-3-8, (min. 0-2-6),	truss to bea	ring walls due to	UPLIFTa	t jt(s) 7 and 4	4. This					
	/=4/22/0	-3-8, (min. 0-2-7)	forces	forces.								
	Max Gray 4=5730 (I	LC 3) 7-5031 (LC 21)	9) This truss is designed in accordance with the 2018									
	(h) Max Camp (M	LC 3), 7 - 5931 (LC 21)	Internationa	I Residential Cod	e section	s R502.11.1	and					
FURCES	(Ib) - Max. Comp./M	lax. Ten All forces 250 /hen shown	R802.10.2 a	and referenced sta	andard Al	ISI/TPI 1.						
TOP CHOP	RD 1-2=-5012/0, 2-3=-5	5306/0, 1-7=-4300/0,	10) Use MiTek	THD26 (With 18-1	6d nails i	nto Girder &						
	3-4=-4726/0		12-10d x 1-	1/2 nails into Trus	s) or equi	valent space	ed at					
BOT CHOF	RD 7-8=-63/712, 8-9=-6	63/712, 6-9=-63/712,	to connect t	russ(es) A2 (1 plv	2x4 SP).	A3 (1 plv 2x	:4					
	6-10=0/2478, 10-11	=0/2478, 5-11=0/2478,	SP), A4 (1 p	ly 2x4 SP) to bac	k face of	bottom chore	d.					
WERS	0-12=0/400, 4-12=0 1 6=0/3026 3 5=0/	1/400 3/03 2 6-0/3608	11) Fill all nail h	oles where hange	er is in co	ntact with lur	nber.					
WEDS	2-5=0/3526	3403, 2-0-0/3090,	LOAD CASE(S	Standard								
NOTES	2 0 0/0020		1) Dead + Sn	ow (balanced): Lu	umber Inc	rease=1.15,	Plate					
1) 2-ply tr	uss to be connected toge	ether with 10d (0.131"x	3") Increase=	.15								
nails as	s follows:	,	' Uniform Lo	ads (Ib/ft)	7- 00							
Top cho	ords connected as follow	s: 2x4 - 1 row at 0-9-0	Concontra	=-40, 2-3=-40, 4-	7=-20							
oc.			Vort: 5=	1526 8=1337 0	-1336 1	0=-1336						
Bottom	chords connected as to	llows: 2x6 - 2 rows	11=-133	6. 12=-1655	1550, 1	01000,						
Web co	nected as follows: 2x4	- 1 row at 0-9-0 oc		0, 12 1000								
2) All load	s are considered equally	applied to all plies										
except	if noted as front (F) or ba	ack (B) face in the LOA	D									
CASE(S) section. Ply to ply con	nections have been										
provide	d to distribute only loads	s noted as (F) or (B),										
unless	otherwise indicated.											
 Unbala 	nced root live loads have	e been considered for t	is									

- 3)
- Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33 4)

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base house	G1	Common Supported Gable	1	1	Job Reference (optional)

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Wed May 25 14:19:33 Page: 1 ID:6CroYxjypAnMCVE70alQw6zD8Oq-I8LMLECp88MnO49vuxcwh7DlpqqD7__RHk9RipzD5fu



Scale = 1:39.5

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 77 lb	FT = 20%

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Т	n	Þ	C	ш	n	E

- OP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 WEBS OTHERS 2x4 SP No.3 BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS All bearings 13-7-8.

- (lb) Max Horiz 20=113 (LC 12)
 - Max Uplift All uplift 100 (lb) or less at joint(s) 12, 13, 14, 15, 17, 18, 19, 20 Max Grav All reactions 250 (lb) or less at joint
 - (s) 12, 13, 14, 15, 16, 17, 18, 19, 20 (lb) - Max. Comp./Max. Ten. - All forces 250

FORCES (lb) or less except when shown.

NOTES

- Unbalanced roof live loads have been considered for this 1) design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -0-11-8 to 2-0-8, Exterior(2N) 2-0-8 to 6-9-12, Corner(3R) 6-9-12 to 9-9-12, Exterior(2N) 9-9-12 to 14-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 4) Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated. 6)
- Gable requires continuous bottom chord bearing. 7)

- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2-0-0 oc.
- 10) * 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 20, 12, 17, 18, 19, 15, 14, 13.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base	G2	Common	1	1	leb Deference (entionel)
house					Job Relefence (optional)

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

chord and any other members.

Scale = 1:46.6

Loading TCLL (roof Snow (Pf/F TCDL BCLL BCDL	(psf) 20.0 g) 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-11-4 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-MSH	0.76 0.29 0.07	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.04 0.01	(loc) 7 7-8 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 76 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHOP BOT CHOP WEBS BRACING TOP CHOP BOT CHOP	 RD 2x4 SP No.2 RD 2x4 SP No.2 2x4 SP No.3 RD Structural wood she 6-0-0 oc purlins, ex RD Rigid ceiling directly bracing. 	eathing directly applied ccept end verticals. / applied or 10-0-0 oc	 6) One RT7A N truss to bear connection i forces. 7) This truss is International R802.10.2 a LOAD CASE(S) 	liTek connectors ing walls due to l s for uplift only ar designed in accc Residential Cod nd referenced sta Standard	recomme UPLIFT at nd does no ordance w e sections andard AN	nded to coni jt(s) 8 and 6 ot consider la ith the 2018 i R502.11.1 ISI/TPI 1.	nect 5. This ateral and					
REACTION	IS (lb/size) 6=488/0-3 8=488/0-3 Max Horiz 8=113 (LC Max Grav 6=581 (LC	3-8, (min. 0-1-8), 3-8, (min. 0-1-8) C 12) C 2), 8=581 (LC 2)										
FORCES	(lb) - Max. Comp./M (lb) or less except w 2-9=-558/88, 3-9=-4 4-10=-558/88, 2-8=-	lax. Ten All forces 250 /hen shown. !40/108, 3-10=-440/108 -524/155, 4-6=-524/155)									
NOTES 1) Unbala design 2) Wind: / Vasd=' II; Exp Exterio 14-7-0 vertical forces DOL=1 3) TCLL:. Plate D DOL=1 Exp.; C 4) This tru load of	ACC 7-16; Vult=130mpl 03mph; TCDL=6.0psf; B B; Enclosed; MWFRS (e (2E) -0-11-8 to 2-0-8, In r(2R) 6-9-12 to 9-9-12, Ir zone; cantilever left and left and right exposed; C & MWFRS for reactions : .60 plate grip DOL=1.33 ASCE 7-16; Pr=20.0 psf OL=1.15); Pg=20.0 psf OL=1.15); Fg=e0.0 psf cl=1.15); S = e-0.9; Cs=1.00; Ct=1.10 ss has been designed fo 12.0 psf or 2.00 times fia	e been considered for th a Gasecond gust) SCDL=6.0psf; h=25ft; C: nvelope) and C-C terior (1) 2-0-8 to 6-9-12 interior (1) 9-9-12 to right exposed ; end i-C for members and shown; Lumber (roof LL: Lum DOL=1.1 Pf=13.9 psf (Lum =1.0; Rough Cat B; Full) or greater of min roof liv at roof load of 13.9 psf of	nis at. 2, 5 y e									
overha 5) * This t on the 3-06-00	ngs non-concurrent with russ has been designed pottom chord in all areas) tall by 2-00-00 wide wil	other live loads. for a live load of 20.0ps where a rectangle I fit between the bottom	of									

Job	Truss	Truss Type	Qty	Ply		
22050129 - Base house	H1	Monopitch Girder	1	2	Job Reference (optional)	
Carter Components - Sanford, Sanford, NC, user Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Wed May 25 14:19:33						

ID:_Fckz7z7tdQODjLAkUdLGXzD8OV-I8LMLECp88MnO49vuxcwh7Di9qjA7?4RHk9RipzD5fu



THD26

THD26

5-3-8

```
One RT7A
```

Scale = 1.32 1

Scale = 1:32.1			1				1						
Loading TCLL (roof) Snow (Pf/Pg) 1 TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-11-4 1.15 1.15 NO IRC2018/TPI2014	CSI TC BC WB Matrix-MP	0.29 0.49 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.03 -0.06 0.00	(loc) 3-6 3-6 1	l/defl >999 >965 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 44 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD 2x4 SP I BOT CHORD 2x4 SP I WEBS 2x4 SP I BRACING TOP CHORD Structur 5-3-8 oc BOT CHORD Rigid ce bracing. REACTIONS (Ib/size) Max Hori: Max Grav FORCES (Ib) - Ma (Ib) or le TOP CHORD 1-2=-31' BOT CHORD 1-2=-31' BOT CHORD 1-7=-15/ NOTES 1) 2-ply truss to be cor Top chords connect follows: 2x6 - 2 rows 2) All loads are consid except if noted as fn CASE(S) section. Pl provided to distribut unless otherwise ind 3) Wind: ASCE 7-16; V Vasd=103mph; TCD II; Exp B; Enclosed; and right exposed ; Lumber DOL=1.60 p Plate DOL=1.15); Pl DOL=1.15 Plate DOL Exp.; Ce=0.9; Cs=1. governs. 5) Unbalanced snow Ic design. 6) * This truss has bee on the bottom chord 3-06-00 tall by 2-00- chord and any other	No.2 No.2 No.3 al wood she purlins, ex purlins, ex 1=492/0-3 3=621/0-3 z 1=39 (LC / 1=584 (LC x. Comp./M ss except w 1/32 /323 anected toge ed with 10d at 0-9-0 oc. tected with 1 dat 0-9-0 oc. tected with 10d at 0-9-0 o	eathing directly applied iccept end verticals. ' applied or 10-0-0 oc 3-8, (min. 0-1-8), 3-8, (min. 0-1-8), 10) C 2), 3=737 (LC 2) ax. Ten All forces 25 then shown. ether as follows: (0.131"x3") nails as 10d (0.131"x3") nails as 10d (0.13	 7) One RT7A I truss to bea connection forces. 8) This truss is Internationa R802.10.2 a 9) Use MiTek 1 12-10d x 1-2-0-0 oc ma to connect t bottom chor 10) Fill all nail h LOAD CASE(S) 10 1) Dead + Sn Increase=1 Uniform Loc Vert: 1-2 Concentral Vert: 7=- s AD Cat. ft; 15 Illy bad ssf n 	AiTek connectors i ring walls due to L s for uplift only an designed in acco l Residential Code ind referenced sta THD26 (With 18-11 1/2 nails into Truss x. starting at 2-0- russ(es) E2 (1 ply d. oles where hange Standard ow (balanced): Lu .15 ads (lb/ft) =-46, 3-4=-19 ed Loads (lb) 387, 8=-387	recomme JPLIFT a d does n rdance w e section: indard At 6d nails i s) or equi) from the 2x4 SP) r is in co mber Inc	Inded to com t jt(s) 1 and 3 ot consider I ith the 2018 s R502.11.1 nto Girder & valent space a left end to 4 to back face Intact with Iur rease=1.15,	nect 3. This ateral and ed at 4-0-0 of nber. Plate						

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base house	PB1	Piggyback	1	1	Job Reference (optional)

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8-7-13





											-	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC 0	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDI	13.9/20.0	Rep Stress Incr	YES	WB 0	0.04	Horz(CT)	0.00	- 6	n/a n/a	999 n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP			0.00	Ũ				
BCDL	10.0										Weight: 39 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3		 6) Gable requir 7) Gable studs 8) * This truss I on the bottor 3-06-00 tall I 	es continuous bottom spaced at 2-0-0 oc. nas been designed for n chord in all areas w ny 2-00-00 wide will fit	chor r a liv here	d bearing. e load of 20.0 a rectangle)psf					
BRACING TOP CHORD	Structural wood she	athing directly applied o	chord and ar	y other members.			ot					
BOT CHORD	6-0-0 oc purlins. Rigid ceiling directly	applied or 10-0-0 oc	9) One RT/A MUTER connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 6, 9, 10, and 8. This connection is for uplift only and does not									
	MiTek recommends required cross brac truss erection, in ac Installation guide.	s that Stabilizers and sing be installed during ccordance with Stabilizer	consider late 10) This truss is International R802.10.2 a 11) See Standar	aral forces. designed in accordan Residential Code sec nd referenced standar d Industry Piggyback	ice w ctions rd AN Trus:	ith the 2018 R502.11.1 a ISI/TPI 1. s Connection	nd					
REACTIONS	All bearings 8-7-13		Detail for Co	nnection to base truss	s as a	applicable, or						
(lb) -	Max Horiz 2=60 (LC	12), 11=60 (LC 12)		fied building designer.	-							
	Max Uplift All uplift 1	00 (lb) or less at joint(s)	LOAD CASE(S)	Stanuaru								
	Max Grav All reaction	ons 250 (lb) or less at ioi	nt									
	(s) 2, 6, 8	, 9, 10, 11, 15										
FORCES	(lb) - Max. Comp./M (lb) or less except w	ax. Ten All forces 250 /hen shown.										
NOTES	d roof live loads have	boon considered for thi	c									
design.			5									
2) Wind: ASC Vasd=103 II; Exp B; I Exterior(2) Exterior(2) zone; cant and right e MWFRS f	CE 7-16; Vult=130mph mph; TCDL=6.0psf; B Enclosed; MWFRS (e E) 0-3-7 to 3-1-4, Inte E) 5-1-4 to 8-1-4, Inte tillever left and right ex exposed;C-C for mem or reactions shown; L	n (3-second gust) GDL=6.0psf; h=25ft; Ca nvelope) and C-C rior (1) 3-1-4 to 5-1-4, rior (1) 8-1-4 to 9-11-0 yoosed ; end vertical left bers and forces & umber DOL=1.60 plate	t.									
3) Truss des	inso	in the plane of the truss										
only. For see Stand	studs exposed to wind ard Industry Gable Er	d (normal to the face), d Details as applicable,										
4) TCLL: ASC Plate DOL DOL=1.15	qualified building des CE 7-16; Pr=20.0 psf =1.15); Pg=20.0 psf; Plate DOL=1.15); Is=	igner as per ANSI/TPI 1. (roof LL: Lum DOL=1.15 Pf=13.9 psf (Lum =1.0; Rough Cat B; Fully										
5) This truss load of 12 overhangs	has been designed fo 0.9, CS=1.00; Ct=1.10 has been designed fo 0 psf or 2.00 times fla 5 non-concurrent with	or greater of min roof live at roof load of 13.9 psf or other live loads.	n									

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base house	PB2	Piggyback	11	1	Job Reference (optional)

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Scale = 1:32.6

Plate Offsets	(X, Y):	[2:0-2-11,0-1-8],	[4:0-2-11,0-1-8]
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Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code I	2-0-0 1.15 1.15 YES RC2018/TPI2014	CSI TC C BC C WB 0 Matrix-MP	0.25 0.25 0.02	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 2	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 35 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS ((b) -	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. MiTek recommendi required cross brac truss erection, in at Installation guide. All bearings 8-7-13. Max Horiz 2-60 (LC	eathing directly applied or y applied or 10-0-0 oc s that Stabilizers and cing be installed during ccordance with Stabilizer C 11), 7=-60 (LC 11)	 5) This truss ha load of 12.0 overhangs n 6) Gable requir 7) Gable studs 8) * This truss I on the bottoo 3-06-00 tall chord and a 9) One RTTA M truss to bear This connec lateral forces 10) This truss is International R802.10.2 a 11) See Standar 	as been designed for g psf or 2.00 times flat r on-concurrent with oth es continuous bottom spaced at 4-0-0 oc. has been designed for m chord in all areas w by 2-00-00 wide will fit ny other members. IITek connectors recon ing walls due to UPLII tion is for uplift only ar s. designed in accordan Residential Code sec nd referenced standar d Industry Piggyback	greate roof lo her live chore r a live where t betw IFT at nd do nce wi ctions rd AN	e load of 13.9 ps re loads. d bearing. e load of 20.0 a rectangle reen the botto nded to conne jt(s) 2, 4, anc es not consid ith the 2018 : R502.11.1 ai IS/TPI 1. s Connection	live sf on Dpsf om ect d 6. ler nd					
FORCES	Max Uplift All uplift 1 2, 4, 7, 11 Max Grav All reactic (s) 2, 4, 7 (lb) - Max. Comp./M	UU (Ib) or less at joint(s) ons 250 (Ib) or less at join r, 11 except 6=263 (LC 2) lax. Ten All forces 250 dren shown	Detail for Cc consult qual t LOAD CASE(S)	nnection to base truss fied building designer Standard	s as a r.	pplicable, or						
NOTES 1) Unbalance design.	(ID) or less except w ed roof live loads have	nen snown. e been considered for this	5									
 Wind: ASC Vasd=103 II; Exp B; I Exterior(2I Zone; cant and right e MWFRS fi grip DOL= Truss des only. For see Stand or consult TCLL: ASC Plate DOL DOL=1.15 Exp.; Ce= 	CE 7-16; Vult=130mpf mph; TCDL=6.0psf; E Enclosed; MWFRS (e E) 0-3-7 to 3-3-7, Inte R) 5-1-4 to 8-1-4, Inte tilever left and right ex exposed;C-C for mem or reactions shown; L :1.33 igned for wind loads i studs exposed to wind ard Industry Gable Er qualified building des CE 7-16; Pr=20.0 psf; =1.15); Pg=20.0 psf; i Plate DOL=1.15); Is 0.9; Cs=1.00; Ct=1.10	n (3-second gust) CDL=6.0psf; h=25ft; Cat. nvelope) and C-C rior (1) 3-3-7 to 5-1-4, rior (1) 8-1-4 to 9-11-0 cposed ; end vertical left bers and forces & umber DOL=1.60 plate in the plane of the truss d (normal to the face), nd Details as applicable, igner as per ANSI/TPI 1. (roof LL: Lum DOL=1.15, pf=13.9 psf (Lum =1.0; Rough Cat B; Fully D										

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base house	PB3	Piggyback	9	1	Job Reference (optional)

2

2x4 =

Carter Components - Sanford, Sanford, NC, user

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Wed May 25 14:19:34 Page: 1 ID:2bzZzdkCLn14RpOW7_nu?XzD8Oo-mKvkZaDRvSUe0Ej6Se79DKmuqD9CsSPbWOu_EFzD5ft

0-9-14







Scale = 1:34.2

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

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code If	2-0-0 1.15 1.15 YES RC2018/TPI2014	CSI TC BC WB Matrix-MP	0.23 0.12 0.06	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 2	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 32 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. MiTek recommends required cross brac truss erection, in ad Installation quide	eathing directly applied or cept end verticals. r applied or 10-0-0 oc s that Stabilizers and cing be installed during coordance with Stabilizer	 4) TCLL: ASCE Plate DOL=: DOL=1.15 F Exp.; Ce=0. 5) This truss ha load of 12.0 overhangs n 6) Gable requin 7) Gable studs 8) * This truss I on the botton 3-06-00 tall chord and ai 9) One RTTA M trues to hoose 	7-16; Pr=20.0 psf 1.15); Pg=20.0 psf; late DOL=1.15); Is 2; Cs=1.00; Ct=1.11 as been designed for psf or 2.00 times fit on-concurrent with es continuous botto spaced at 4-0-0 oc nas been designed n chord in all areas by 2-00-00 wide with y other members. Nitek connectors re time welle due to UK	(roof LL Pf=13.9 =1.0; Re or great at roof I other li om chor : for a liv s where I fit betw	: Lum DOL= 9 psf (Lum ough Cat B; F er of min roof pad of 13.9 p ve loads. d bearing. e load of 20.0 a rectangle veen the botto nded to conn	1.15 Fully f live sf on Opsf om ect					
REACTIONS (lb) -	All bearings 7-11-15. Max Horiz 2=65 (LC Max Uplift All uplift 1 2, 6, 8 Max Grav All reactic (s) 2, 6, 8	12), 8=65 (LC 12) 00 (lb) or less at joint(s) ons 250 (lb) or less at joint except 7=382 (LC 2)	 truss to bear This connec lateral force: 10) This truss is International R802.10.2 a 11) See Standar Detail for Cc 	ing walls due to UF tion is for uplift only s. designed in accord Residential Code : nd referenced stan d Industry Piggyba inpection to base tr	And do and do sections dard An ock Trus	It(s) 6, 2, and es not consid th the 2018 STO2.11.1 a ISI/TPI 1. S Connection	d 7. der ind					
FORCES WEBS NOTES 1) Unbalance design. 2) Wind: ASC Vasd=1030 II; Exp B; f Exterior(2f Zone; cant and right e MWFRS for grip DOL= 3) Truss des only. For s see Stand or consult	(lb) - Max. Comp./M (lb) or less except w 3-7=-273/79 ed roof live loads have CE 7-16; Vult=130mpf mph; TCDL=6.0psf; B Enclosed; MWFRS (e E) 0-3-7 to 3-3-7, Inte R) 5-1-4 to 8-1-4, Inte exposed; C-C for mem or reactions shown; Li 1.33 igned for wind loads i studs exposed to wind ard Industry Gable Er qualified building des	ax. Ten All forces 250 then shown. e been considered for this n (3-second gust) CDL=6.0psf; h=25ft; Cat. nvelope) and C-C rior (1) 3-3-7 to 5-1-4, rior (1) 8-1-4 to 8-7-8 posed ; end vertical left bers and forces & umber DOL=1.60 plate n the plane of the truss d (normal to the face), nd Details as applicable, igner as per ANSI/TPI 1.	consult qual	fied building design Standard	ner.	approasie, of						

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base house	PB4	Piggyback	1	1	Job Reference (optional)

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Wed May 25 14:19:34 Page: 1 ID:2bzZzdkCLn14RpOW7_nu?XzD8Oo-mKvkZaDRvSUe0Ej6Se79DKmwKDASsSjbWOu_EFzD5ft



7-11-15





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Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-MP	0.07 0.04 0.04	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a n/a	(loc) - - -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 36 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. MiTek recommends required cross brac truss erection, in ac Installation guide. All bearings 7-11-15. Max Horiz 2=65 (LC	eathing directly applied of coept end verticals. <i>y</i> applied or 10-0-0 oc s that Stabilizers and cing be installed during coordance with Stabilizer 12), 11=65 (LC 12)	 5) This truss h load of 12.0 overhangs r 6) Gable requi 7) Gable studs 8) * This truss on the botto 3-06-00 tall chord and a 9) One RT7A h truss to bea and 8. This consider lat 10) This truss is Internationa R802.10.2 a 11) See Standa Detail for Communicationa consider later and be standa and be the standa and and be the standa and be the standa and and be the standard and be the standard and and be the standard and and be the standard and and and and and and and and and an	as been designed psf or 2.00 times ion-concurrent with res continuous bot spaced at 2-0-0 c has been designe m chord in all area by 2-00-00 wide w ny other members diTek connectors r ring walls due to L connection is for u eral forces. designed in accord l Residential Code and referenced sta rd Industry Piggyb onnection to base	for great flat roof I h other I it tom choi tom choi tom choi tom choi as where as where ill fit betw ecomme IPLIFT a plift only rdance w s sections ndard AN ack Trus truss as s	er of min roof oad of 13.9 ps ve loads. rd bearing. rd bearing. a rectangle ween the botto inded to conne t jt(s) 7, 2, 9, 1 and does not vith the 2018 s R502.11.1 a NSI/TPI 1. s Connection applicable, or	live sf on ppsf pm ect I0, nd					
l	2, 7, 8, 10 Max Grav All reactio (s) 2, 7, 8	00 (lb) of less at joint(s)), 11 ons 250 (lb) or less at jo , 9, 10, 11	consult qual int LOAD CASE(S)	ified building desig Standard	gner.							
FORCES	(lb) - Max. Comp./M	ax. Ten All forces 250										
NOTES	(ib) of less except w	ilen silowii.										
1) Unbalance	d roof live loads have	e been considered for th	is									
 Wind: ASC Vasd=103r II; Exp B; E Exterior(2E Exterior(2F zone; canti and right e MWFRS fc grip DOL=i Truss design only For s 	E 7-16; Vult=130mph mph; TCDL=6.0psf; B Enclosed; MWFRS (e E) 0-3-7 to 3-1-4, Inte R) 5-1-4 to 8-1-4, Inte liever left and right ex xposed;C-C for mem or reactions shown; Li 1.33 igned for wind loads is studs exposed to wind	n (3-second gust) iCDL=6.0psf; h=25ft; Ca nvelope) and C-C rior (1) 3-1-4 to 5-1-4, rior (1) 8-1-4 to 8-7-8 yoosed ; end vertical left bers and forces & umber DOL=1.60 plate in the plane of the truss d (normal to the face).	at.									

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. TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10 4)





Job	_	Truss		Tru	uss Type		Qty		Ply						
22050129 - house	Base	VL3		Va	lley		1		1	Job R	eferen	ce (opt	ional)		
Carter Compone	nts - Sanford, S	anford, N	IC, user			Run: 8.53 S Mar 28	2022 Prii	nt: 8.5	530 S Mar 2	28 2022	MiTek In	dustries	, Inc. V	/ed May 25 14:19:3	5 Page: 1
								ID:SA	Aencen5eiP	/fiG/50/	Kbd9ZD	80I-EW	TOMWE	-3gmcVeOII?LeOm	Y 13ad I Hbtjki2eXmizD5fs
				1	7	11 10		I			15.6	1		15-11-4	
				1	7-	-11-10		1			7-6-	7			
														0-5-3	
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Scale = 1:41.7				<u></u>			15	-11-4	•						
														I 	
Loading TCLL (roof)		(psf) 20.0	Spacing Plate Grip DOL		2-0-0 1.15	CSI TC	0.23	DEFI Vert(L LL)	in n/a	(loc) -	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190
Snow (Pf/Pg)	13.9	/20.0	Lumber DOL Rep Stress Incr		1.15 VES	BC	0.13	Vert(TL)	n/a	-	n/a n/a	999 n/a		
BCLL		0.0*	Code	I	IRC2018/TPI2014	Matrix-MSH	0.12	110112	.(12) 0		0	n/a	n/a		FT 000/
BCDL		10.0				-								Weight: 64 lb	F1 = 20%
	2x4 SP No 3	2			 Provide mec bearing plate 	hanical connection (e capable of withstar	by othe dina 10	rs) of 00 lb	f truss to uplift at io	int					
BOT CHORD	2x4 SP No.2	2			(s) 8, 6.		noo witi	h tho	2010						
BRACING	2x4 SP No.3	3			International	Residential Code se	ections I	R502	2018 11.1 and						
TOP CHORD	Structural w	ood she	eathing directly app	olied or	LOAD CASE(S)	nd referenced stand	ard ANS	5I/TP	11.						
BOT CHORD	Rigid ceiling	directly	applied or 6-0-0 c	С											
	MiTek reco	mmends	s that Stabilizers a	nd	7										
	required cr truss erecti	oss brac on, in ac	cing be installed du ccordance with Sta	ıring abilizer											
	Installation	guide.													
REACTIONS	All bearings 1	15-11-4. -97 (I C	10)												
(10) -	Max Uplift A	ll uplift 1	00 (lb) or less at jo	oint(s)											
	Max Grav A	, o Il reactio	ons 250 (lb) or less	at join	nt										
	(s 7:	s) 1, 5 ex =302 (L0	<pre><cept (lc="" 2)="" 2),="" 2)<="" 6="366" 8="385" c="" pre=""></cept></pre>	5), I)											
FORCES	(lb) - Max. C	Comp./M	ax. Ten All forces	s 250											
WEBS	2-8=-277/14	3, 4-6=-	267/143												
1) Unbalance	d roof live loa	ads have	e been considered	for this	5										
design. 2) Wind: ASC	E 7-16: Vult=	:130mph	n (3-second aust)												
Vasd=103r	mph; TCDL=6 =nclosed: MV).0psf; B	CDL=6.0psf; h=25	oft; Cat	. <u>.</u>										
Exterior(2E	E) 0-0-6 to 3-0	0.0 Inter	rior (1) $3-0-6$ to $8-0$)-0, 15.6.4											
zone; cant	ilever left and	right ex	posed ; end vertic	al left											
and right e MWFRS fo	exposed;C-C i or reactions s	for mem hown; Li	bers and forces & umber DOL=1.60 p	olate											
grip DOL= 3) TCLL: ASC	1.33 CE 7-16; Pr=2	20.0 psf	(roof LL: Lum DOL	.=1.15											
Plate DOL	=1.15); Pg=2 Plate DOI =1	0.0 psf; .15): Is=	Pf=13.9 psf (Lum =1.0: Rough Cat B	Fully											
Exp.; Ce=(0.9; Cs=1.00;	Ct=1.10) m chord bearing	, . uny											
5) * This truss	s has been de	esigned	for a live load of 20	0.0psf											
on the bott 3-06-00 tal	tom chord in a Il by 2-00-00	all areas wide will	where a rectangle I fit between the bo	e ottom											
chord and	any other me	mbers.													

Job		Truss		Truss Ty	pe		Qty	Pl	у					
22050129 - E house	Base	VL4		Valley			1	1		Job Referer	nce (opt	ional)		
Carter Component	ts - Sanford, S	anford, N	IC, user	•		Run: 8.53 S Mar 28	2022 Pr	int: 8.530	S Mar 28	3 2022 MiTek I	Industries	s, Inc. V	/ed May 25 14:19:3	5 Page: 1
							I	D:SAehce	en5eiPflG	375o7Kbd9zD8	BOI-EWT	6mwE3	gmcVeOII?LeOmYI	4MdUubuokl2eXmizD5fs
				×		5-11-10 5-11-10				<u>11-6-</u> 5-6-7	1		11-11-4 0-5-3	
		<u> </u>	<u> </u>					4x5= 3						
	0-0-4		о Ф С	8	1 <u>2</u> 2 St	2x4 II TH		ST2		IT	14 2 513	«4 II 4		
		<u> </u>	0-0 -4 \	1			×××		B1	*****			5	
					3x5 💋	2x4 II		2x4 II			2:	к4 ш	3x5 👟	
Scale = 1:36.4				ł				11-11-4						
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL	13.9/	(psf) 20.0 20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	IRC20	2-0-0 1.15 1.15 YES 018/TPI2014	CSI TC BC WB Matrix-MSH	0.18 0.09 0.05	DEFL Vert(LL Vert(TL Horiz(T)) L) 0	in (loc) n/a - n/a - .00 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCDL		10.0											Weight: 45 lb	FT = 20%
TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS A	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural w 6-0-0 oc pur Rigid ceiling bracing. MiTek recon required cru truss erectii Installation	ood she lins. directly mmends oss brac on, in ac guide. 1-11-4.	eathing directly applie r applied or 10-0-0 or s that Stabilizers and ing be installed durin coordance with Stabi	7) ed or LO c ng lizer	bearing plate (s) 1, 8, 6. This truss is International R802.10.2 a AD CASE(S)	e capable of withstar designed in accorda Residential Code so nd referenced stand Standard	nding 1 ance wi ections ard AN	00 lb up th the 20 R502.1 [:] SI/TPI 1	lift at joi 018 1.1 and	nt				
(lb) - N N	/lax Horiz 1= /lax Uplift Al 1,	⊧72 (LC l uplift 1 6, 8	12) 00 (lb) or less at join	t(s)										
FORCES WEBS NOTES 1) Unbalanced design. 2) Wind: ASCE Vasd=103m II; Exp B; Er	(s 7= (lb) - Max. C (lb) or less e 2-8=-260/18 d roof live loa 5 7-16; Vult= ph; TCDL=6 nclosed; MW) 1, 5 ex 260 (LC omp./M. xcept w 2, 4-6=- ds have 130mph .0psf; B (FRS (et	ccept 6=305 (LC 25), C 2), 8=309 (LC 24) ax. Ten All forces 2 hen shown. 251/176 been considered for (3-second gust) CDL=6.0psf; h=25ft; nvelope) and C-C	250 r this Cat.										
Exterior(2E) Exterior(2R) zone; cantili and right ex MWFRS for grip DOL=1 3) TCLL: ASCI Plate DOL= DOL=1.15 F Exp.; Ce=0. 4) Gable requi 5) * This truss on the botto 3-06-00 tall chord and a) 0-0-6 to 3-0) 6-0-0 to 9-0 ever left and posed;C-C f reactions sł .33 E 7-16; Pr=22 11.15); Pg=20 Plate DOL=1 .9; Cs=1.00; res continuo has been de by 2-00-00 v any other me	 a) -6, Interright exponential contract of the contrac	rior (1) 3-0-6 to 6-0-0 rior (1) 9-0-0 to 11-1 posed ; end vertical bers and forces & umber DOL=1.60 pla (roof LL: Lum DOL= Pf=13.9 psf (Lum =1.0; Rough Cat B; F) m chord bearing. for a live load of 20.0 where a rectangle fit between the botto), I-10 left ite 1.15 iully Opsf										

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base house	VL5	Valley	1	1	Job Reference (optional)

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Wed May 25 14:19:35 Page: 1 ID:SAehcen5eiPfIG75o7Kbd9zD8OI-EWT6mwE3gmcVeOII?LeOmYI32dTLbtAkl2eXmizD5fs



2x4 II

7-11-4



2x4 🍫



2x4 💊

Scale = 1:30.5

			1								I	
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-MP	0.20 0.19 0.09	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: 27 lb	GRIP 244/190 FT = 20%
EVENT LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD CHORD CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 7-11-4 oc purlins. Rigid ceiling directly bracing. MiTek recommends required cross brac truss erection, in ar Installation guide. (Ib/size) 1=31/7-11 3=34/7-17 4=472/7- Max Horiz 1=-47 (LC (Max Uplift 1=-12 (LC Max Uplift 1=-12 (LC Max Grav 1=67 (LC (LC 2) (Ib) - Max. Comp./M (Ib) or less except w 2-4=-401/188 ed roof live loads have CE 7-16; Vult=130mpf mph; TCDL=6.0psf; E Enclosed; MWFRS (e E) 0-0-6 to 3-0-6, Inte R) 4-0-0 to 7-0-7, Inte illever left and right ex exposed;C-C for mem or reactions shown; L 1:33 CE 7-16; Pr=20.0 psf; i Plate DOL=1.15); Is= 0.9; Cs=1.00; Ct=1.10	eathing directly applied o y applied or 6-0-0 oc is that Stabilizers and cing be installed during ccordance with Stabilizer 1-4, (min. 0-1-8), 1-4, (min. 0-1-8), 1-4, (min. 0-1-8), 1-4, (min. 0-1-8), 2 31), 3=-9 (LC 30) 30), 3=70 (LC 31), 4=55 (ax. Ten All forces 250 yhen shown. e been considered for thi in (3-second gust) 3CDL=6.0psf; h=25ft; Ca nvelope) and C-C rior (1) 3-0-6 to 4-0-0, rior (1) 3-0-6 to 4-0-0, rior (1) 7-0-7 to 7-11-10 (posed ; end vertical left bers and forces & umber DOL=1.60 plate (roof LL: Lum DOL=1.15 Pf=13.9 psf (Lum =1.0; Rough Cat B; Fully) om chord bearing. for a live load of 20 0pf	6) Provide mec bearing plate 1 and 9 lb up 7) This truss is International R802.10.2 a r LOAD CASE(S)	hanical connectic e capable of withs blift at joint 3. designed in acco Residential Code nd referenced sta Standard	on (by oth standing 1 ordance w e sections andard AN	ers) of truss 12 lb uplift at ith the 2018 s R502.11.1 a ISI/TPI 1.	to joint and				weight. 27 ID	
on the bot 3-06-00 ta chord and	tom chord in all areas Il by 2-00-00 wide wil any other members.	where a rectangle I fit between the bottom										

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base house	VL6	Valley	1	1	Job Reference (optional)

Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Wed May 25 14:19:35 Page: 1 ID:SAehcen5eiPfIG75o7Kbd9zD8OI-EWT6mwE3gmcVeOII?LeOmYI5TdUkbuakl2eXmizD5fs



0-0-4-



3-6-1

1-6-7



3-11-4

2x4 。

2x4 🤣

Scale = 1:30.4

Plate Offsets	(X,	Y):	[2:0-2-8,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999	1	
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 11 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2

BOT CHORD	2x4 SP No.2
DDACING	

BRACING	
TOP CHORD	Structural wood sheathing directly applied or

3-11-4 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

- REACTIONS
 (lb/size)
 1=133/3-11-4, (min. 0-1-8), 3=133/3-11-4, (min. 0-1-8)

 Max Horiz
 1=22 (LC 12)

 Max Grav
 1=158 (LC 2), 3=158 (LC 2)
- FORCES (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply		
22050129 - Base house	VL7	Valley	1	1	Job Reference (optional)	
Carter Components - Sanford, S	rter Components - Sanford, Sanford, NC, user Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Wed May 25 14:19:35					

ID:SAehcen5eiPfIG75o7Kbd9zD8OI-EWT6mwE3gmcVeOII?LeOmYIw?dlibuakl2eXmizD5fs

2x4 II





3x5 =

	7-4-3											
Scale = 1:22.5			1									
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDI	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-MP	0.78 0.87 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.02	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190 ET = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. MiTek recommends required cross brack truss erection, in ac Installation guide.	eathing directly applied ccept end verticals. / applied or 7-6-0 oc s that Stabilizers and cing be installed during ccordance with Stabiliz	 6) Provide medbearing plate and 4 lb upli 7) This truss is International R802.10.2 a or LOAD CASE(S) 	L chanical connect e capable of with ft at joint 1. designed in acc I Residential Co nd referenced s Standard	tion (by oth hstanding & cordance w de sections tandard AN	ers) of truss 8 lb uplift at jc ith the 2018 s R502.11.1 a ISI/TPI 1.	to bint 3 and					
REACTIONS	(lb/size) 1=244/7-4 3=244/7-4 Max Horiz 1=47 (LC Max Uplift 1=-4 (LC	4-3, (min. 0-1-8), 4-3, (min. 0-1-8) 12) 11), 3=-8 (LC 15) 221) 3=317 (LC 21)										
FORCES	(lb) - Max. Comp./M (lb) or less except w	lax. Ten All forces 250 /hen shown.)									
IOP CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=103i II; Exp B; E Exterior(2E zone; cant and right e MWFRS fc grip DOL= 2) TCLL: ASC Plate DOL DOL=1.15 Exp.; Ce=(1-6=-936/293, 1-6=- 1-3=-396/901 CE 7-16; Vult=130mpf mph; TCDL=6.0psf; E Enclosed; MWFRS (e E) 0-1-0 to 3-1-0, Inte illever left and right ey- xeposed;C-C for mem or reactions shown; L 1.33 CE 7-16; Pr=20.0 psf =1.15); Pg=20.0 psf; Plate DOL=1.15); Is= 0.9; Cs=1.00; Ct=1.10	-918/296 h (3-second gust) BCDL=6.0psf; h=25ft; C invelope) and C-C rior (1) 3-1-0 to 7-3-7 kposed ; end vertical lei bers and forces & umber DOL=1.60 plate (roof LL: Lum DOL=1.1 Pf=13.9 psf (Lum =1.0; Rough Cat B; Full 0; Min. flat roof snow lo	at. t 5 y ad									

- governs.3) Unbalanced snow loads have been considered for this design.
- 4)
- Gable requires continuous bottom chord bearing. * 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.

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base house	VL8	Valley	1	1	Job Reference (optional)

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3x5 =

1



-0

2x4 II

			/			5-3-0					/	
Scale = 1:20.5			1									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.41	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0					1					Weight: 15 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 5-3-0 oc purlins, ex Rigid ceiling directly bracing.	eathing directly applied o ccept end verticals. / applied or 10-0-0 oc	 6) Provide mea bearing plat and 3 lb upli 7) This truss is Internationa R802.10.2 a r LOAD CASE(S) 	chanical connect e capable of wi ft at joint 1. designed in ac Residential Co nd referenced Standard	ction (by oth thstanding s coordance w ode sections standard AN	ners) of truss 5 lb uplift at ju vith the 2018 s R502.11.1 i NSI/TPI 1.	to oint 3 and					

required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. **REACTIONS** (lb/size) 1=173/5-3-0, (min. 0-1-8), 3=173/5-3-0, (min. 0-1-8) Max Horiz 1=32 (LC 12) Max Uplift 1=-3 (LC 11), 3=-5 (LC 15) Max Grav 1=225 (LC 21), 3=225 (LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-6=-588/267, 1-6=-572/269

BOT CHORD 1-3=-354/562 NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-0 to 3-1-0, Interior (1) 3-1-0 to 5-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 2) Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- Unbalanced snow loads have been considered for this 3) design.
- Gable requires continuous bottom chord bearing. 4)
- * 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.

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base house	VL9	Valley	1	1	Job Reference (optional)

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9-11-4

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Plate Offsets	(X, Y):	[3:0-2-8,Edge],	[5:Edge,0-3-8]
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Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-MSH	0.30 0.22 0.19	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 44 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. MiTek recommendar required cross brack truss erection, in ar Installation guide.	eathing directly applied of coept end verticals. / applied or 6-0-0 oc s that Stabilizers and cing be installed during ccordance with Stabilize	 4) Gable requir 5) * This truss on the botto 3-06-00 tall chord and a 6) Provide mee bearing plate (s) 1 except 7) This truss is International R802.10.2 a LOAD CASE(S) 	es continuous bott has been designed m chord in all area by 2-00-00 wide w hy other members thanical connection e capable of withst (jt=lb) 5=181, 7=1 designed in accor Residential Code nd referenced star Standard	tom chor I for a liv s where ill fit betv n (by oth anding 1 21, 6=13 dance w sections ndard AN	d bearing. e load of 20.0 a rectangle veen the botto ers) of truss t lo0 lb uplift at 77. ith the 2018 s R502.11.1 a ISI/TPI 1.	Dpsf om : joint nd					
REACTIONS (lb) -	All bearings 9-11-4. Max Horiz 1=96 (LC Max Uplift All uplift 1 except 5= 14), 7=-1: Max Grav All reactio (s) 1, 5 e; 7=597 (L0	10) 00 (lb) or less at joint(s 182 (LC 30), 6=-138 (l 21 (LC 13) ons 250 (lb) or less at jo ccept 6=326 (LC 25), C 24)) 1 _C int									
FORCES TOP CHORD WEBS NOTES 1) Unbalance design. 2) Wind: ASC Vasd=1030 II; Exp B; E Exterior(2E Exterior(2E Exterior(2E Zone; cant and right e MWFRS fc grip DOL= 3) TCLL: ASC Plate DOL DOL=1.15 Exp; Ce=((lb) - Max. Comp./M (lb) or less except w 1-2=-145/265, 4-5=- 2-7=-461/224, 4-6=- d roof live loads have E 7-16; Vult=130mpl mph; TCDL=6.0psf; E Enclosed; MWFRS (e E) 0-0-4 to 3-0-4, Inte R) 5-4-0 to 8-4-0, Inte R) 5-4-0 to 8-4-0, Inte liever left and right ex xposed; C-C for mem or reactions shown; L 1.33):E 7-16; Pr=20.0 psf =1.15); Pg=20.0 psf =1.15); Is= 0.9; Cs=1.00; Ct=1.10;	lax. Ten All forces 250 /hen shown. -324/435 -418/295 e been considered for th n (3-second gust) CDL=6.0psf; h=25ft; Ca nvelope) and C-C rior (1) 3-0-4 to 5-4-0, rior (1) 8-4-0 to 9-9-12 (posed ; end vertical left bers and forces & umber DOL=1.60 plate (roof LL: Lum DOL=1.1: Pf=13.9 psf (Lum =1.0; Rough Cat B; Fully)) nis at. t 5									

Job	Truss	Truss Type	Qty	Ply		
22050129 - Base house	VL10	Valley	1	1	Job Reference (optional)	
Carter Components - Sanford, S	Run: 8.53 S Mar 28 2	2022 Print: 8	.530 S Mar 2	28 2022 MiTek Industries, Inc. Wed May 25 14:19:35	Page: 1	

ID:WnXxBzIr659x3yzihiI7YkzD8On-EWT6mwE3gmcVeOII?LeOmYI3IdS1bsEkl2eXmizD5fs

2x4 💸



2x4 II

7-11-8





Scale = 1:35.6

4-0-0

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC 0 BC 0 WB 0 Matrix-MP	.22 .21 .15	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: 32 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 7-11-8 oc purlins. Rigid ceiling directly bracing. MiTek recommend: required cross brac truss erection, in ac Installation guide.	eathing directly applied o y applied or 6-0-0 oc s that Stabilizers and cing be installed during ccordance with Stabilize	 5) * This truss on the botto 3-06-00 tall chord and a 6) Provide mean bearing plat. r (s) 1, 3, 3. 7) This truss is International R802.10.2 a LOAD CASE(S) 	has been designed for or chord in all areas w by 2-00-00 wide will fit by other members. hanical connection (by capable of withstand designed in accordan Residential Code sec nd referenced standar Standard	a live here a betwo y othe ling 10 ce with tions l	e load of 20.0 a rectangle een the botto ors) of truss to 20 Ib uplift at h the 2018 R502.11.1 at SI/TPI 1.)psf om joint nd					
REACTIONS (lb) -	All bearings 7-11-8. Max Horiz 1=-71 (LC Max Uplift All uplift 1, 3, 9 Max Grav All reactio (s) 1, 3, 9	C 9) 100 (lb) or less at joint(s) ons 250 (lb) or less at join except 4=641 (LC 2)	nt									
FORCES TOP CHORD WEBS NOTES 1) Unbalance design. 2) Wind: ASC Vasd=103 II; Exp B; I Exterior(2I zone; cant and right e MWFRS fc grip DOL= 3) TCLL: ASC Plate DOL DOL=1.15 Exp.; Ce=I 4) Gable requ	(lb) - Max. Comp./M (lb) or less except w 1-2=-52/274, 2-3=-2 2-4=-493/84 ed roof live loads have CE 7-16; Vult=130mpl mph; TCDL=6.0psf; E Enclosed; MWFRS (e E) 0-0-4 to 3-0-4, Inte R) 4-0-0 to 7-3-9, Inte tilever left and right e) exposed;C-C for mem or reactions shown; L :1.33 CE 7-16; Pr=20.0 psf; Flate DOL=1.15); Is: 0.9; Cs=1.00; Ct=1.10 uires continuous botto	lax. Ten All forces 250 yhen shown. 27/278 e been considered for thi h (3-second gust) 3CDL=6.0psf; h=25ft; Ca invelope) and C-C rior (1) 3-0-4 to 4-0-0, rior (1) 7-3-9 to 7-11-12 (posed ; end vertical left ibers and forces & umber DOL=1.60 plate (roof LL: Lum DOL=1.15 Pf=13.9 psf (Lum =1.0; Rough Cat B; Fully om chord bearing.	is t.									

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base house	VL11	Valley	1	1	Job Reference (optional)

2-7-12

Carter Components - Sanford, Sanford, NC, user

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2x4 💊

5-3-8 5-0-1 2-7-12

2-4-5



2x4 🍬



5-3-8

Scale = 1:30.9

				-								
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof	20.0	Plate Grip DOL	1.15	тс	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/P	g) 13.9/20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 21 lb	FT = 20%
LUMBER TOP CHOF BOT CHOF OTHERS	2X4 SP No.2 2X4 SP No.2 2X4 SP No.3		6) Provide med bearing plat4.7) This truss is	chanical connec e capable of wit designed in ac	tion (by oth hstanding 1 cordance w	ers) of truss I0 lb uplift at ith the 2018	to joint					
BRACING TOP CHOF	CD Structural wood st	neathing directly applied	Internationa R802.10.2 a LOAD CASE(S)	I Residential Co and referenced s Standard	ode sections standard AN	s R502.11.1 a ISI/TPI 1.	and					
BOT CHOP	Rigid ceiling direct bracing.	ly applied or 6-0-0 oc										
	MiTek recomment required cross bract truss erection, in a Installation guide.	ds that Stabilizers and acing be installed during accordance with Stabiliz	l zer									
REACTION	IS (lb/size) 1=43/5- 3=45/5- 4=271/5 Max Horiz 1=-46 (L Max Uplift 4=-10 (L Max Grav 1=64 (LC 2)	3-8, (min. 0-1-8), 3-8, (min. 0-1-8), -3-8, (min. 0-1-8) C 9) C 13) C 30), 3=66 (LC 31), 4=	319									
FORCES	(lb) - Max. Comp./l	Max. Ten All forces 25	0									
	(lb) or less except	when shown.										
NOTES												
1) Unbala design.	nced roof live loads hav	ve been considered for	this									
 Wind: A Vasd=1 II; Exp Exterio vertical forces a DOL=1 TCLL: A Plate D DOL=1 Exp: C 	SCE 7-16; Vult=130m; 03mph; TCDL=6.0psf; 3; Enclosed; MWFRS ((2E) zone; cantilever le left and right exposed; & MWFRS for reactions 60 plate grip DOL=1.3 ASCE 7-16; Pr=20.0 psf 0L=1.15); Pg=20.0 psf 15 Plate DOL=1.15); li =0 9: Cs=1.00: Ct=1	bh (3-second gust) BCDL=6.0psf; h=25ft; C envelope) and C-C eft and right exposed ; e C-C for members and C-C for members and s shown; Lumber 3 f (roof LL: Lum DOL=1. ; Pf=13.9 psf (Lum s=1.0; Rough Cat B; Fu I0	Cat. and 15									

- 4) Gable requires continuous bottom chord bearing.
 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.

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base house	VL12	Valley	1	1	Job Reference (optional)

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0-0-4-



2-7-8



Scale = 1:29.9

Plate Offsets (X, Y):	[2:0-2-8,	Edge
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	2.0-2-0,Eugej												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999	1		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	1		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP									
BCDL	10.0										Weight: 8 lb	FT = 20%	

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No 2

BOI	CHORD	2x4 SP	No

BRACING TOP CHORD Structural wood sheathing directly applied or

2-7-8 oc purlins. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

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

- **REACTIONS** (lb/size) 1=89/2-7-8, (min. 0-1-8), 3=89/2-7-8, (min. 0-1-8) Max Horiz 1=21 (LC 12) Max Grav 1=105 (LC 2), 3=105 (LC 2)
- FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C 2) Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 3) Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing. 4)
- * 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.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply		
22050129 - Base house	VL13	Valley	1	1	Job Reference (optional)	
Carter Components - Sanford, S	Run: 8.53 S Mar 28 2	2022 Print: 8	.530 S Mar 2	28 2022 MiTek Industries, Inc. Wed May 25 14:19:36	Page: 1	

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chord and any other members.

			Ι						I			
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-MP	0.54 0.41 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 1	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 19 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 5-8-8 oc purlins, ex Rigid ceiling directly bracing. MiTek recommende required cross brac truss erection, in ar Installation guide.	eathing directly applied kcept end verticals. y applied or 10-0-0 oc s that Stabilizers and cing be installed during ccordance with Stabiliz	 6) One RT7A M truss to bear connection i forces. 7) This truss is Internationa R802.10.2 a LOAD CASE(S) 	liTek connectors ring walls due to s for uplift only a designed in acc I Residential Coc nd referenced st Standard	s recomme UPLIFT a Ind does n ordance w de sections tandard AN	nded to coni t jt(s) 1 and 3 ot consider la ith the 2018 s R502.11.1 ISI/TPI 1.	nect 3. This ateral					
REACTIONS	(Ib/size) 1=188/6- 3=191/6-2 4=188/6-2 Max Horiz 1=44 (LC Max Uplift 1=-2 (LC (LC 11) Max Grav 1=245 (LC 4=245 (LC (Ib) - Max. Comp./M	2-9, (min. 0-1-8), 2-9, (min. 0-1-8), 2-9, (min. 0-1-8) 14), 4=44 (LC 14) 11), 3=-5 (LC 15), 4=-2 C 21), 3=248 (LC 21), C 21) 1ax. Ten All forces 25	2									
NOTES 1) Wind: ASI Vasd=103 II; Exp B; Exterior(2 zone; can and right 4 MWFRS f grip DOL= 2) TCLL: AS Plate DOI DOL=1.1{ Exp.; Ce= governs. 3) Unbalanc design. 4) Gable req 5) * This trus on the bol 3-06-00 tz	(lb) or less except w CE 7-16; Vult=130mpt Smph; TCDL=6.0psf; E Enclosed; MWFRS (e E) 0-0-0 to 3-0-0, Inte tilever left and right ex exposed;C-C for mem for reactions shown; L =1.33 CE 7-16; Pr=20.0 psf; 5 Plate DOL=1.15); Is: 60.9; Cs=1.00; Ct=1.10 ed snow loads have b uires continuous botto ss has been designed thom chord in all areas bl by 2-00-00 wide wil	when shown. h (3-second gust) 3CDL=6.0psf; h=25ft; C envelope) and C-C strior (1) 3-0-0 to 5-6-12 xposed ; end vertical le abers and forces & umber DOL=1.60 plate (roof LL: Lum DOL=1.10; Pf=13.9 psf (Lum =1.0; Rough Cat B; Full 0; Min. flat roof snow lo been considered for this pom chord bearing. for a live load of 20.0p is where a rectangle I fit between the hotron	at. ft 15 ly ad sf									

5-8-8

Job		Truss			Truss	Туре		Qty	P	Ply					
22050129 - E	Base	VL14			Valle	у		1	1		Job Referer	ice (opti	onal)		
Carter Componen	ts - Sanford, S	anford, N	IC, user	I			Run: 8.53 S Mar 28	3 2022 Pri	nt: 8.53	0 S Mar 2	3 2022 MiTek I	ndustries	, Inc. V	Ved May 25 14:19:3	6 Page: 1
									10	D:WnXxBz	lr659x3yzihil7	YkzD8Or	n-ii1U_(GFiR3kMFYtUZ39d	Jlr631e5KIPtziN5J8zD5fr
						10	<u>-11-3</u>		_		17-7-8 6-8-5				
				I		10	-11-5		I		0-0-5		27	4	
												2	2 2.4 u	+ 11	
		_ \ _										2		<u> </u>	
		ľ									_12	5	P		
											81				
										2x4	16 72				
		o.							0	4		S	₩1 3	ņ	
		7-2					2×	< 4 n	3 /					7-2-	
							2		I	ST2					
				.12 3⊡		15	T1								
				4	_	14									
			-0 -4 \		- <u>D-</u>	 ```````````````````````````````	<u></u> В1[] ХХХХХХХХХХХХХХХХ		****		B	2		7	
					~~~~~	~~~~~~~~~~	11	1		10 9	******		8		
					3x5 =		2×	<4 u		3x5=		2	2x4 u		
										2x4	·II		2x4	4 u	
Scale = 1:50.2				∤			17-	7-8					$\rightarrow$		
Loading		(psf)	Spacing			2-0-0	CSI		DEFL		in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	12.0	20.0	Plate Grip	DOL		1.15	TC	0.76	Vert(Ll	L)	n/a -	n/a	999	MT20	244/190
TCDL	13.9/	10.0	Rep Stress	Incr		YES	WB	0.80	Horiz(	L) TL) 0	.02 7	n/a	999 n/a		
BCLL BCDL		0.0* 10.0	Code		IRC	2018/TPI2014	Matrix-MSH							Weight: 80 lb	FT = 20%
						<ol> <li>All slata a su</li> </ol>	- 04 MT00	- 41						0	
TOP CHORD	2x4 SP No.2	2			į	5) Gable requi	res continuous botto	om chord	bearir	ng.					
BOT CHORD WEBS	2x4 SP No.2 2x4 SP No.3	2			(	<ol> <li>This truss on the botto</li> </ol>	has been designed m chord in all areas	for a live where a	load c rectar	of 20.0ps ngle	f				
OTHERS	2x4 SP No.3	3				3-06-00 tall chord and a	by 2-00-00 wide will ny other members.	fit betwe with BCE	en the	e bottom 0.0psf.					
BRACING TOP CHORD	Structural w	ood she	athing direct	tly applie	d or	<ol> <li>Provide me</li> </ol>	chanical connection	(by othe	rs) of t	truss to	at				
BOT CHORD	6-0-0 oc pur Rigid ceiling	lins, ex directly	cept end ver	ticals. 3-0-0 oc		(s) 1, 11, 9,	8 except (jt=lb) 7=21	18.			it.				
	bracing.					<ol> <li>This truss is International</li> </ol>	designed in accord I Residential Code s	ance wit sections l	n the 2 R502.1	2018 11.1 and					
	MiTek recor required cro	mmends oss brac	s that Stabiliz ;ing be instal	zers and led durin	g	R802.10.2 a	nd referenced stand	dard ANS	SI/TPI	1.					
	truss erection	on, in ac auide.	cordance wi	ith Stabil	izer		Olandara								
REACTIONS A	Il bearings 1	7-7-8.													
(lb) - N	/ax Horiz 1=	=201 (LC	C 12) 00 (lb) or log	o ot ioint	t(a)										
N	1,	8, 9, 11	except 7=-2	219 (LC 2	29)										
N	/lax Grav Al (s	l reactio ) 7, 9 ex	ons 250 (lb) c cept 1=285	or less at (LC 2),	joint										
FORCES	8= (lb) - Max_C	=530 (LC	28), 11=76 av. Ten - All	6 (LC 5)	50										
	(lb) or less e	xcept w	then shown.	101003 2											
TOP CHORD	1-14=-860/1 2-15=-288/1	ວ8, 14-1 86, 2-3=	15=-291/164 =-252/133	,											
BOT CHORD WEBS	1-11=-232/8 2-11=-493/1	13 52, 5-8=	-291/278												
NOTES	= 7 46.14.4	120	(2	110 ⁴ )											
Vasd=103m	ph; TCDL=6	.0psf; B	CDL=6.0psf	; h=25ft;	Cat.										
II; Exp B; E Exterior(2E	nclosed; MW ) 0-1-0 to 3-1	/FRS (ei -0, Inter	nvelope) and rior (1) 3-1-0	to 17-6-	12										
zone; cantil and right ex	ever left and posed;C-C f	right ex or mem	posed ; end bers and for	vertical l ces &	left										
MWFRS for	reactions sh	nown; Li	umber DOL=	1.60 plat	te										
2) TCLL: ASC	E 7-16; Pr=2	0.0 psf	(roof LL: Lun	n DOL=1	.15										
DOL=1.15 F	Plate DOL=1	.0 psr; l .15); ls=	=1.0; Rough	Lum Cat B; Fi	ully										
Exp.; Ce=0. governs.	.9; Cs=1.00;	Ct=1.10	); Min. flat ro	of snow l	load										
<ol> <li>Unbalanced design</li> </ol>	l snow loads	have be	een consider	red for th	is										
acoign.															



Job	Truss	Truss Type	Qty	Ply		
22050129 - Base house	VL16	Valley	2	1	Job Reference (optional)	
Carter Components - Sanford, Sanford, NC, user Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Wed May 25 14:19:36				8 2022 MiTek Industries, Inc. Wed May 25 14:19:36	Page: 1	

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Scale = 1:39.9

Loading TCLL (roof) Snow (Pf/Pg) TCDL	(psf) 20.0 13.9/20.0 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.52 0.23 0.12	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCLL BCDL	0.0* 10.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 48 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing.	eathing directly applied o ccept end verticals. / applied or 10-0-0 oc	<ol> <li>5) Provide med bearing plat 5 and 51 lb i</li> <li>6) This truss is International R802.10.2 a</li> <li>r LOAD CASE(S)</li> </ol>	hanical connectior e capable of withst uplift at joint 6. designed in accorr Residential Code nd referenced star Standard	n (by oth anding 2 dance w sections ndard AN	viers) of truss 29 Ib uplift at ith the 2018 s R502.11.1 a ISI/TPI 1.	to joint and					
	MiTek recommender required cross brack truss erection, in ac Installation guide.	s that Stabilizers and cing be installed during ccordance with Stabilize	r									
REACTIONS	(lb/size) 1=124/8- 5=121/8- 6=352/8- Max Horiz 1=165 (L0 Max Uplift 5=-29 (L0 Max Grav 1=174 (L0 6=521 (L0	11-10, (min. 0-1-8), 11-10, (min. 0-1-8), 11-10, (min. 0-1-8) C 10) C 10), 6=-51 (LC 13) C 25), 5=199 (LC 24), C 24)										
FORCES TOP CHORD WEBS NOTES 1) Wind: ASC Vasd=1030 II; Exp B; E Exterior(2E zone; cant and right e MWFRS fc grip DOL=	(lb) - Max. Comp./M (lb) or less except w 1-9=-282/176, 2-9=- 2-6=-294/197 CE 7-16; Vult=130mpf mph; TCDL=6.0psf; E Enclosed; MWFRS (e E) 0-0-6 to 3-0-6, Inte illever left and right ex exposed;C-C for mem or reactions shown; L 1.33	n (3-second gust) 3CDL=6.0psf; h=25ft; Ca nvelope) and C-C rior (1) 3-0-6 to 8-10-4 cposed ; end vertical left bers and forces & umber DOL=1.60 plate	t.									
2) TCLL: ASC Plate DOL	9) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum POL=1.45 Plate DOL=4.45); lact 0 is plaueb Oct Di Fallin											

- DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) 4) Gable requires continuous bottom chord bearing. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Job	Truss	Truss Type	Qty	Ply		
22050129 - Base house	VL17	Valley	2	1	Job Reference (optional)	
Carter Components - Sanford, Sanford, NC, user Run: 8.53 S Mar 28 2022 Print: 8.530 S Mar 28 2022 MiTek Industries, Inc. Wed May 25 14:19:36					8 2022 MiTek Industries, Inc. Wed May 25 14:19:36	Page: 1

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5-11-10

Scale = 1:30.6

												_
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 26 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3		6) This truss is International R802.10.2 a LOAD CASE(S)	designed in accord Residential Code s nd referenced stan Standard	lance w sections dard AN	ith the 2018 8 R502.11.1 a ISI/TPI 1.	and					
BRACING TOP CHORD	Structural wood she	eathing directly applied o	or									
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc										
	MiTek recommende	s that Stabilizers and	7									
	required cross brac	cing be installed during										
	truss erection, in a	ccordance with Stabilize	er									
	Installation guide.											
REACTIONS	(Ib/size) 1=76/5-11 4=73/5-11											
	5=245/5-1	11-10, (min. 0-1-8)										
	Max Holiz $I = 107$ (LC)	(10)										
	Max Grav 1=102 (LC	C(25) = 4 = 94 (1 C 24)										
	5=296 (L0	C 24)										
FORCES	(lb) - Max. Comp./M (lb) or less except w	ax. Ten All forces 250 /hen shown.										
NOTES												
1) Wind: ASC Vasd=103r II; Exp B; E Exterior(2E 5-10-4 zon	E 7-16; Vult=130mpl mph; TCDL=6.0psf; B Enclosed; MWFRS (e E) 0-0-6 to 2-11-13, In e; cantilever left and	at.										
forces & M	and right exposed;C	-C for members and										
DOL=1.60	plate grip DOL=1.33	Shown, Edinber										
2) TCLL: ASC	CE 7-16; Pr=20.0 psf	(roof LL: Lum DOL=1.15	5									
Plate DOL	=1.15); Pg=20.0 psf;	Pf=13.9 psf (Lum										
DOL=1.15	Plate DOL=1.15); Is=	=1.0; Rough Cat B; Fully	/									
<ol> <li>Gable regi</li> </ol>	EXp., Ce=0.37, CS=1.00, Cl=1.10 3) Cable requires continuous bottom chord bearing											
<ol> <li>4) * This truss</li> </ol>	s has been designed	for a live load of 20.0ps	f									
on the bott	n the bottom chord in all areas where a rectangle											
3-06-00 tal	any other members	i fit between the bottom										
5) Provide m	any other members.	(by others) of truss to										
bearing pla	ate capable of withsta	inding 16 lb uplift at joint	t									
4 and 39 lt	o uplift at joint 5.											

Job	Truss	Truss Type	Qty	Ply	
22050129 - Base house	VL18	Valley	2	1	Job Reference (optional)

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GRIP

244/190

FT = 20%







2x4 🖌

2x4 II

1

Scale =	= 1:22.9
ocaic -	- 1.22.0

Loading

TCLL (roof)

		1	2-11-	-10						
Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	
Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	
Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
Don Strong Inor	VEC	\A/D	0.00	Horiz(TL)	0.00	2	nla	nla	1	

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				-							
BCDL	10.0										Weight: 11 lb
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999	l.

### LUMBER

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

### BRACING

TOP CHORD	Structural wood sheathing directly applied or
	2-11-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc

(psf)

20.0

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

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

#### Installation guide. **REACTIONS** (lb/size) 1=96/2-11-10, (min. 0-1-8), 3=96/2-11-10, (min. 0-1-8)

Max Horiz 1=49 (LC 10) Max Uplift 3=-8 (LC 13) Max Grav 1=113 (LC 2), 3=118 (LC 24)

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

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 2) Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- * This truss has been designed for a live load of 20.0psf 4) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply		
22050129 - Base house	VL19	Valley	1	1	Job Reference (optional)	
Carter Components - Sanford, S	Run: 8.53 S Mar 28 2	022 Print: 8	.530 S Mar 2	28 2022 MiTek Industries, Inc. Wed May 25 14:19:36	Page: 1	

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15-0-6

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Scale = 1:55.2

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

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-MSH	0.94 0.27 0.13	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 10	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 108 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. 1 Row at midpt MiTek recommenda required cross brac truss erection, in ac Installation guide.	eathing directly applied of coept end verticals. <i>v</i> applied or 10-0-0 oc <u>9-10, 8-11</u> s that Stabilizers and cing be installed during ccordance with Stabilize	<ul> <li>3) TCLL: ASCE Plate DOL= DOL=1.15 F Exp.; Ce=0.</li> <li>4) All plates ar</li> <li>5) Gable requi</li> <li>6) Gable studs</li> <li>7) * This truss on the botto 3-06-00 tall chord and a</li> <li>8) Provide mee bearing plat (s) 1, 10, 14</li> <li>9) This truss is Internationa</li> </ul>	7-16; Pr=20.0 psf 1.15); Pg=20.0 psf; late DOL=1.15); Is 9; Cs=1.00; Ct=1.19 e 2x4 MT20 unless res continuous bott spaced at 2-0-0 oc nas been designed m chord in all areas by 2-00-00 wide wil ny other members. hanical connection e capable of withsta 15, 16, 13, 12, 11. designed in accord Residential Code	(roof LL Pf=13.9 =1.0; Ro o otherwin om chor : for a liv s where I fit betw (by oth anding 1 dance w sections	: Lum DOL= 9 psf (Lum ough Cat B; I se indicated. d bearing. e load of 20. a rectangle veen the bott ers) of truss 100 lb uplift a ith the 2018 s R502.11.1 a	:1.15 Fully Opsf to t joint					
REACTIONS A (Ib) - N N	All bearings 15-0-6. Max Horiz 1=282 (L0 Max Uplift All uplift 1 1, 10, 11, Max Grav All reactio (s) 1, 10, 16=284 (L	C 10) 00 (lb) or less at joint(s 12, 13, 14, 15, 16 ons 250 (lb) or less at jo 11, 12, 13, 14, 15 excej C 24)	LOAD CASE(S)	nd referenced stan Standard	dard An	ISI/TPT1.						
F <b>ORCES</b> TOP CHORD	(lb) - Max. Comp./M (lb) or less except w 1-2=-448/371, 2-3=-	ax. Ten All forces 250 /hen shown. :387/311, 3-4=-337/286										
NOTES 1) Wind: ASCI Vasd=103n II; Exp B; E Exterior(2E zone; cantil and right ex MWFRS for grip DOL=1 2) Truss desi; only. For si see Standa or consult c	4-5=-285/250 E 7-16; Vult=130mph nph; TCDL=6.0psf; B nclosed; MWFRS (e ) 0-0-6 to 3-0-6, Inte lever left and right ex kposed;C-C for mem r reactions shown; Li .33 gned for wind loads i tuds exposed to wind tuds exposed to wind rd Industry Gable Er qualified building des	n (3-second gust) CDL=6.0psf; h=25ft; Ca nvelope) and C-C rior (1) 3-0-6 to 14-11-0 tposed ; end vertical left bers and forces & umber DOL=1.60 plate in the plane of the truss d (normal to the face), nd Details as applicable igner as per ANSI/TPI 1	at. t									

Job	Truss	Truss Type	Qty	Ply		
22050129 - Base house	VL20	Valley	1	1	Job Reference (optional)	
Carter Components - Sanford, S	Run: 8.53 S Mar 28 2	022 Print: 8	.530 S Mar 2	8 2022 MiTek Industries, Inc. Wed May 25 14:19:36	Page: 1	

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Scale = 1:51.1

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDI	(psf) 20.0 13.9/20.0 10.0 0.0*	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-MSH	0.80 0.22 0.21	<b>DEFL</b> 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	<b>GRIP</b> 244/190
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. 1 Row at midpt MiTek recommends required cross brac truss erection, in ac Installation guide.	athing directly applied o cept end verticals. applied or 10-0-0 oc 5-6 that Stabilizers and ing be installed during cordance with Stabilizer	<ul> <li>4) * This truss h on the bottor 3-06-00 tall t chord and ar</li> <li>5) Provide mec bearing plate (s) 6, 1, 8, 9,</li> <li>6) This truss is International R802.10.2 a</li> <li>LOAD CASE(S)</li> </ul>	has been designe in chord in all area by 2-00-00 wide w by other members hanical connectio capable of withs 7. designed in accoo Residential Code and referenced sta Standard	d for a liv as where vill fit betv s, with BC n (by oth standing 1 rdance w e sections ndard AN	re load of 20. a rectangle veen the bott CDL = 10.0ps ers) of truss 100 lb uplift a ith the 2018 s R502.11.1 a ISI/TPI 1.	Opsf om f. to t joint					
REACTIONS (lb) -	Reactions         All bearings 13-6-6.           (lb) - Max Horiz         1=253 (LC 10)           Max Uplift         All uplift 100 (lb) or less at joint(s)           1, 6, 7, 8, 9         1, 6, 7, 8, 9           Max Grav         All reactions 250 (lb) or less at joint           (s) 1, 6 except 7=412 (LC 24),           2         2											
FORCES TOP CHORD WEBS NOTES 1) Wind: ASC Vasd=103i II; Exp B; f Exterior(21 zone; can and right e MWFRS fc grip DOL= 2) TCLL: ASC Plate DOL DOL=1.15 Exp.; Ce=( 3) Gable requ	(lb) - Max. Comp./M. (lb) or less except w 1-2=-442/355, 2-3=- 3-8=-261/174 E 7-16; Vult=130mph mph; TCDL=6.0psf; B Enclosed; MWFRS (et ) 0-0-6 to 2-9-3, Inter ilever left and right ex xeposed; C-C for memior or reactions shown; Lu 1.33 E 7-16; Pr=20.0 psf; =1.15); Pg=20.0 psf; Plate DOL=1.15); Is= 0.9; Cs=1.00; Ct=1.10 uires continuous botto	ax. Ten All forces 250 hen shown. 361/298 (GJ-second gust) CDL=6.0psf; h=25ft; Ca nvelope) and C-C ior (1) 2-9-3 to 13-5-0 posed ; end vertical left bers and forces & umber DOL=1.60 plate (roof LL: Lum DOL=1.15 Pf=13.9 psf (Lum :1.0; Rough Cat B; Fully m chord bearing.	t.									

Job	Truss	Truss Type	Qty	Ply		
22050129 - Base house	VL21	Valley	1	1	Job Reference (optional)	
Carter Components - Sanford, S	Run: 8.53 S Mar 28 2	2022 Print: 8	530 S Mar 2	8 2022 MiTek Industries, Inc. Wed May 25 14:19:37	Page: 1	

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11-11-10

2x4 **I** 

Scale = 1:50

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.60	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/P	g) 13.9/20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	RC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 65 lb	FT = 20%
LUMBER TOP CHOF BOT CHOF WEBS OTHERS BRACING TOP CHOF BOT CHOF WEBS	<ul> <li>2x4 SP No.2</li> <li>2x4 SP No.2</li> <li>2x4 SP No.3</li> <li>2x4 SP No.3</li> <li>Structural wood she 6-0-0 oc purlins, ex</li> <li>Rigid ceiling directly bracing.</li> <li>1 Row at midpt</li> <li>MiTek recommendar required cross braat truss erection, in ar Installation quide</li> </ul>	eathing directly applied or ccept end verticals. y applied or 6-0-0 oc 5-6 s that Stabilizers and cing be installed during ccordance with Stabilizer	<ul> <li>4) * This truss I on the botton 3-06-00 tall chord and at 5) Provide mec bearing plate (s) 6, 1, 8, 9</li> <li>6) This truss is International R802.10.2 a</li> <li>LOAD CASE(S)</li> </ul>	has been designed in chord in all areas by 2-00-00 wide wil by other members, hanical connection e capable of withsta 7. designed in accord Residential Code and referenced stan Standard	for a lives s where Il fit betw with BC (by oth anding f dance w sections idard AN	re load of 20. a rectangle ween the bott CDL = 10.0ps lers) of truss 100 lb uplift a ith the 2018 s R502.11.1 a USI/TPI 1.	Opsf com f. to t joint and					
REACTION	IS All bearings 11-11-10	). C 10)										
(ID	) - Max Horiz 1=223 (Li Max Liplift All uplift 1	U 10)										
	Max Grav All reaction	ons 250 (lb) or less at ioir	nt									
	(s) 1, 6 ex	xcept 7=363 (LC 24),										
	8=450 (L	C 24), 9=310 (LC 24)										
FORCES	(lb) - Max. Comp./M	lax. Ten All forces 250										
	(lb) or less except w	/hen shown.										
TOP CHOR	LD 1-2=-404/280, 2-12	=-339/208, 3-12=-315/24	1									
WEBS	3-8=-266/152											
NOIES		· (0										
1) Wind: A Vasd=1	SCE 7-16; Vult=130mpl 03mph: TCDI =6 0psf: F	n (3-second gust) RCDI =6 0psf: b=25ft: Cat										
II: Exp	B: Enclosed: MWFRS (e	envelope) and C-C										
Exterio	r(2E) 0-0-6 to 3-0-6, Inte	rior (1) 3-0-6 to 11-10-4										
zone; c	antilever left and right ex	cposed ; end vertical left										
and rig	nt exposed;C-C for mem	bers and forces &										
MWFR	S for reactions shown; L	umber DOL=1.60 plate										
grip DC	0L=1.33											
2) IULL: A Plate D	$130 \pm 7 - 10; Pr=20.0 pst$ OI = 1.15); Pr=20.0 pst	(1001 LL: LUM DOL=1.15 Pf=13.9 nsf (Lum										
	15  Plate DOI = 1.15, Fy=20.0  psi, 15  Plate DOI = 1.15	=1.0: Rough Cat B: Fully										
Exp.: C	e=0.9: Cs=1.00: Ct=1.10	)										
3) Gable r	equires continuous botto	om chord bearing.										
	,											