

RE: 3883097-106

MiTek, Inc. 16023 Swinalev Ridae Rd. Chesterfield, MO 63017 314.434.1200

Site Information: Customer: DREAM FINDERS Project Name: 3883097-106 Lot/Block: 210 Model: 2235 B 1 Model: 2235 B 150 Address: 200 EAGLESTON LANE Subdivision: LAKEWOOD RANCH BUNGALOW WALK AT WATERSIDE City: Sarasota State: FL

## General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2023/TPI2014 Wind Code: ASCE 7-22

Roof Load: 37.0 psf

Design Program: MiTek 20/20 8.7 Wind Speed: 150 mph Floor Load: N/A psf

This package includes 19 individual, dated Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T33010616	A01	2/21/2024
2	T33010617	A02	2/21/2024
3	T33010618	A03	2/21/2024
4	T33010619	B01	2/21/2024
5	T33010620	B02	2/21/2024
6	T33010621	E01	2/21/2024
7	T33010622	E02	2/21/2024
8	T33010623	E03	2/21/2024
9	T33010624	E04	2/21/2024
10	T33010625	FG01	2/21/2024
11	T33010626	FG02	2/21/2024
12	T33010627	FT01	2/21/2024
13	T33010628	FT02	2/21/2024
14	T33010629	FT03	2/21/2024
15	T33010630	FT05	2/21/2024
16	T33010631	FT07	2/21/2024
17	T33010632	G01	2/21/2024
18	T33010633	G02	2/21/2024
19	T33010634	G03	2/21/2024

This item has been digitally signed and sealed by Velez, Joaquin on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies The truss drawing(s) referenced above have been prepared by

1 of 1

MiTek USA, Inc under my direct supervision

based on the parameters provided by Builders FirstSource (Plant City, FL).

Truss Design Engineer's Name: Velez, Joaquin

My license renewal date for the state of Florida is February 28, 2025. Florida COA: 6634

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



February 21, 2024

Velez, Joaquin

Job	Truss	Truss Type	Qty	Ply		
3883097-106	A01	Common Supported Gable	1	1	Job Reference (optional)	T33010616



Scale = 1:49.2

Dista Officiale	X XX TO.0	0.0 5 4	[0:0.0.0 Educal [4.4		1 [	44.0.0.0	-l1 [00:0 0 0 0 0 0	01										
	X, Y): [2:0	-3-8,Eagej,	[2:0-2-8,Edge], [14	:0-3-8,E0	gej, [	14:0-2-8,E	dgej, [22:0-3-0,0-3-	UJ										
Loading		(psf)	Spacing	2-0-0			csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP			
TCLL (roof)		20.0	Plate Grip DOL	1.25			тс	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190			
TCDL		7.0	Lumber DOL	1.25	5 BC 0.4				Vert(CT)	n/a		n/a	999	-				
BCLL		0.0*	Rep Stress Incr	YES			WB	0.09	Horz(CT)	0.01	14	n/a	n/a					
BCDL		10.0	Code	FBC2	023/T	/TPI2014 Matrix-MS				0.01				Weight: 127 lb	FT = 20%			
LUMBER					вот	CHORD	2-24=-70/236, 23-2	4=-70/2	36,		11) Prov	vide med	hanical connection (by others) of truss to					
TOP CHORD	2x4 SP N	lo.2					21-23=-70/236, 20-	21=-70	/236,		bea	ring plat	e capa	able of withstandir	ng 117 lb uplift at joint			
BOT CHORD	2x4 SP N	lo.2			19-20=-70/236, 18-19=-70/236, 2, 117 lb uplift at joint 14, 94 lb uplift at j								t at joint 21, 103 lb					
OTHERS	2x4 SP N	lo.3			17-18=-70/236, 16-17=-70/236, uplift at joint 22, 73 lb uplift at joint 23,							23, 152 lb uplift at						
BRACING							14-16=-70/236				joint	24, 94	lb uplif	t at joint 19, 103 l	b uplift at joint 18, 73			
TOP CHORD	Structura	I wood shea	athing directly appli	ed or	WEB	S	8-20=-129/0, 7-21=-121/201, 6-22=-116/212,					plift at jo	int 17,	152 lb uplift at jo	int 16, 117 lb uplift at			
	10-0-0 oc	c purlins.					5-23=-86/172, 4-24	=-183/2	187,		joint	2 and 1	17 10 1	uplift at joint 14.				
BOT CHORD	Rigid ceil	ing directly	applied or 6-0-0 oc				9-19=-119/201, 10-	18=-11	//212,		LOAD C	CASE(S)	Star	ndard				
	bracing.						11-17=-84/172, 12-	16=-18	//287									
REACTIONS	(size)	2=24-0-0,	14=24-0-0, 16=24-	<sub>0-0,</sub> I	NOTE	ES												
	17=24-0-0, 18=24-0-0, 19=24-0-0					1) Unbalanced roof live loads have been considered for												
		20=24-0-0	), 21=24-0-0, 22=24	4-0-0,	this design.													
	23=24-0-0, 24=24-0-0, 25=24-0-0					Wind: ASUE 7-22; Vuit=150mph (3-second gust) Vacd=116mph; TCDI =4 2pcf; PCDI =6 0pcf; b=25ft;												
	28=24-0-0					vasu= i tompri, i CDL=4.2psi, DCDL=0.0psi, II=201, B=45ft: I =24ft: eave=2ft: Cat. II: Exp. C: Enclosed:												
	Max Horiz 2=-193 (LC 8), 25=-193 (LC 8)					9=4011, L=2 1\\/EDQ (di	rectional) and C C	, Exp C	, Enclosed,	. r								
	Max Uplift	2=-117 (L	C 10), 14=-117 (LC	10),	MWFRS (directional) and C-C Zone3 zone; cantilever													
		16=-152 (	LC 10), 17=-73 (LC	10),	- P	xnosed C-	C for members and	forces	& MWERS for									
		18=-103 (1	LC 10), 19=-94 (LC	10),	re	eactions sh	own <sup>.</sup> Lumber DOI :	=1 60 pl	ate arin									
		21=-94 (L	C 10), 22=-103 (LC C 10), 24- 152 (LC	10),	D	OL=1.60			5.1F									
		25=-73 (L	C 10), 24=-152 (LC	(10),	3) 7	Truss desid	ned for wind loads	in the p	lane of the tru	ISS								
	Max Grav	2-179 (1)	(10), 20 = 117 (1 C 2	22)	΄ ο	nly. For st	, uds exposed to win	d (norm	al to the face)	),								
		16=284 (L	C 16) 17=99 (LC 1	-2),	S	ee Standa	rd Industry Gable E	nd Deta	ils as applicat	ole,								
		18=164 (L	C 16), 19=157 (LC	16)	0	r consult q	ualified building des	igner a	s per ANSI/TF	기 1.				This itom ha	s hoon			
		20=169 (L	C 15), 21=159 (LC	15), '	4) B	Building De	esigner / Project engineer responsible for											
		22=163 (L	C 15), 23=102 (LC	15),	V	erifying ap	plied roof live load s	shown c	overs rain loa	ding				digitally sign	ed and			
		24=279 (L	C 21), 25=179 (LC	21),	re	equirement	ts specific to the use	e of this	truss compor	nent.				sealed by Ve	elez, Joaquin, PE			
		28=179 (L	.C 22)		5) A	Il plates ar	e 2x4 MT20 unless	otherwi	se indicated.					on the date i	ndicated here.			
FORCES	(lb) - Max	kimum Com	pression/Maximum	(	6) G	Sable requi	res continuous bott	om chor	d bearing.					Printed copie	es of this			
	Tension					able studs	spaced at 2-0-0 oc							document a	a not considered			
TOP CHORD	P CHORD 1-2=0/24, 2-4=-118/152, 4-5=-94/117,					nis truss h	as been designed for	or a 10.0	pst bottom	-1 -				alanad and				
	5-6=-71/116, 6-7=-52/218, 7-8=-70/316,					chord live load nonconcurrent with any other live loads. Signed and sealed a								sealed and the				
	8-9=-70/316, 9-10=-39/218, 10-11=-7/116,					n the hette	m chord in all areas	where	e iuau ui 20.0	psi				signature mi	ust be verified			
	11-12=-18/49, 12-14=-118/94, 14-15=0/24					on the bottom chord in all areas where a rectangle								on any elect	ronic copies.			
						3-00-00 tail by 2-00-00 wide will fit between the bottom						Joaquin Velez PE No.68182						
					(10) All bearings are assumed to be SP No 2 MiTek Inc. DBA MiTek USA FL Cert							Tek USA FL Cert 6634						
					-, ,									10023 Swingley Ridg Chesterfield MO 63	e Ka. 017			
														Date:	NBAX (			

February 21,2024



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Job	Truss	Truss Type	Qty	Ply		
3883097-106	A02	Common	21	1	T33010617 Job Reference (optional)	

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 21 12:55:14 ID:SqK0OR6\_Y4\_D61jYwugHygy7U\_Y-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



<u> </u>		
Scale	=	1:48.1

Scale = 1:48.1														
<b>Loading</b> TCLL (roof) TCDL BCLL BCDL		(psf) 20.0 7.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	ncing         2-0-0         CSI         DEFL         in         (loc)         I/defl         L/d         PLATES           ie Grip DOL         1.25         TC         0.52         Vert(LL)         -0.15         8-10         >999         360         MT20           iber DOL         1.25         BC         0.76         Vert(CT)         -0.24         8-10         >999         240           o Stress Incr         YES         WB         0.31         Horz(CT)         0.05         6         n/a         n/a           de         FBC2023/TPI2014         Matrix-MS         Verticit         Verticit									<b>PLATES</b> MT20 Weight: 110 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP N 2x4 SP N 2x4 SP N Structural 4-1-6 oc p Rigid ceill bracing. (size) Max Horiz Max Uplift Max Grav	0.2 o.2 o.3 I wood she purlins. ing directly 2=0-3-8, 6 2=203 (LC 2=-484 (L 2=1044 (L	athing directly applie applied or 6-11-8 or 5=0-3-8 C 9) C 10), 6=-484 (LC 1 .C 15), 6=1044 (LC	5) ed or 7) c L( 10) 16)	<ul> <li>* This truss h on the bottor 3-06-00 tall b chord and ar</li> <li>All bearings a</li> <li>Provide mec bearing plate 2 and 484 lb</li> <li>DAD CASE(S)</li> </ul>	has been design n chord in all ar y 2-00-00 wide ny other membe are assumed to hanical connec e capable of wit uplift at joint 6. Standard	ned for a liv reas where e will fit betv ers, with BC b be SP No. ttion (by oth hstanding 4	e load of 20. a rectangle veen the bot DL = 10.0ps 2 . ers) of truss 84 lb uplift a	.0psf tom sf. to at joint					

- FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/24, 2-3=-1702/975, 3-4=-1587/976, 4-5=-1587/976, 5-6=-1702/975, 6-7=0/24 BOT CHORD 2-10=-689/1625, 8-10=-328/1029, 6-8=-689/1499
- WEBS 4-8=-303/760, 5-8=-353/391, 4-10=-303/759, 3-10=-353/391

### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 7-9-1, Zone2 7-9-1 to 16-2-15, Zone1 16-2-15 to 22-0-0, Zone3 22-0-0 to 25-0-0 zone cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for 3) verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date

February 21,2024



Job	Truss	Truss Type	Qty	Ply		
3883097-106	A03	Common Structural Gable	1	1	T330 Job Reference (optional)	)10618

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Scale = 1:49.2

3-2-11 4-9-7 6-0-4 1-6-12 1-2-13

0-3-8 1-4-3

1-10-8

0-3-8 1-0-11

0-9-9

### Plate Offsets (X, Y): [2:0-0-8,Edge], [12:0-4-0,0-2-1], [17:0-4-0,0-1-8]

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 20.0 7.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC202	23/TPI2014	<b>CSI</b> TC BC WB Matrix-MS	0.45 0.53 0.49	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.09 -0.20 0.02	(loc) 21-26 21-26 16	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20 Weight: 143 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD JOINTS REACTIONS	2x4 SP No 2x4 SP No 2x4 SP No 2x4 SP No Structural 5-6-2 oc p Rigid ceili bracing. 1 Brace a 23 (size)	0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	athing directly applie applied or 6-0-0 oc 2=6-11-8, 14=6-11- , 16=0-3-8, 27=6-11	1) 2) d or 8, 3) -8	Unbalanced this design. Wind: ASCE Vasd=116my B=45ft; L=24 MWFRS (dir Zone1 2-0-0 16-3-15 to 22 cantilever lef right exposed for reactions DOL=1.60 Truss design only. For stu	roof live loads have 7-22; Vult=150mph h; TCDL=4.2psf; B ft; eave=4ft; Cat. II; ectional) and C-C Z to 7-10-2, Zone2 7- 2-0-0, Zone3 22-0-0 t and right exposed d;C-C for members shown; Lumber DC ned for wind loads in ds exposed to winc	been of CDL=6 Exp C one3 - <sup>-</sup> 10-2 to to 25-1 ; end v and for DL=1.60 n the pi I (norm	considered for .0psf; h=25ft; ; Enclosed; !-0-0 to 2-0-0, ! 16-3-15, Zor D-0 zone; rertical left and cces & MWFR 0 plate grip ane of the tru al to the face)	r , ne1 d .S ss ,					
	Max Horiz Max Uplift Max Grav	2=192 (LC 2=-363 (L0 14=-150 (l 16=-86 (L0 2=681 (LC 14=281 (L 16=184 (L	29) C 10), 12=-84 (LC 10 LC 10), 15=-284 (LC C 10), 27=-84 (LC 10 C 10), 27=-84 (LC 10 C 10), 12=131 (LC 22) C 16), 15=655 (LC C 1), 27=131 (LC 22)	0), 4) ; 10), <sup>4)</sup> 0) 1, 5) 1), 6) 2) 7)	see Standard or consult qu Building Des verifying app requirements All plates are Gable studs This truss ha	a industry Gable En alified building desi igner / Project engin lied roof live load sl s specific to the use 2x4 MT20 unless of spaced at 2-0-0 oc. s been designed fo	d Deta gner as neer res nown co of this otherwi	is as applicat per ANSI/TF sponsible for overs rain loa truss compon se indicated.	ding nent.					
FORCES	(lb) - Maxi Tension 1-2=0/24, 5-6=-765/ 8-9=-190/ 10-12=-18	imum Com 2-3=-977/6 644, 6-7=-2 210, 9-10= 37/283, 12-	pression/Maximum 623, 3-5=-826/600, 217/348, 7-8=-226/3 -98/259, 13=0/24	8) 05,	chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar	ad nonconcurrent w has been designed f n chord in all areas by 2-00-00 wide will by other members.	ith any for a liv where fit betw	other live load e load of 20.0 a rectangle veen the botto	ds. )psf om				This item ha digitally sign sealed by Ve	s been ed and elez, Joaquin, PE
BOT CHORD	2-21=-377 18-19=-28 16-17=-17 14-15=-21 9-17=-354 6-22=-347 6-23=-450 5-22=-41/ 8-17=-165 10-14=-18	7/892, 19-2 3/419, 17-1 77/264, 15- 19/297, 12- 4/594, 21-2 7/564, 3-21 0/170, 17-2 78, 7-23=-3 5/197, 9-15 33/181	1252/420, 8=-28/419, 16=-177/264, 14=-219/297 2=-284/530, =-306/331, 3=-452/181, 6-19=0, 34/77, 18-23=-16/64 =-760/503,	9) 10 /95, L4	All bearings : )) Provide mec bearing plate 2, 84 lb uplift uplift at joint joint 12. DAD CASE(S)	are assumed to be i hanical connection capable of withstan at joint 12, 284 lb u 14, 86 lb uplift at joi Standard	SP No. (by oth nding 3 iplift at nt 16 a	2 . ers) of truss to 63 lb uplift at joint 15, 150 l nd 84 lb uplift	o joint lb t at				on the date i Printed copie document ar signed and s signature mu on any elect Joaquin Velez PE N. MITek Inc. DBA MIT 16023 Swingley Ridg	ndicated here. es of this e not considered ealed and the ust be verified ronic copies. http://www.second. rok USA_FL Cert 6634 e Rd.
NOTES													Chesterfield, MO 63 Date:	017

February 21,2024



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing
is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the
fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSi/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org)
and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

Job	Truss	Truss Type	Qty	Ply	
3883097-106	B01	Common Supported Gable	1	1	T33010619 Job Reference (optional)

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 21 12:55:15 ID:90SE3gRwBNOOrAHk?3fdYNy7U\_7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:38.6

# Plate Offsets (X, Y): [2:0-4-0,0-2-1], [12:0-4-0,0-2-1]

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 20.0 7.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC202	23/TPI2014	<b>CSI</b> TC BC WB Matrix-MS	0.11 0.04 0.06	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 22	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 84 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP N 2x4 SP N 2x4 SP N Structural 6-0-0 oc p Rigid ceill bracing. (size) Max Horiz Max Uplift Max Grav	o.2 o.2 o.3 I wood shea ourlins. ing directly 2=17-4-0, 15=17-4-0 2=-17-4-0 2=-17-4-0 2=-17-4-0 2=-17-4-0 2=-17-4-0 2=-17-4-0 2=-12 (Li 16=-98 (Li 22=-121 (li 22=-121 (li 2=153 (LC 14=189 (Li 16=163 (Li 18=163 (Li 21=181 (Li	athing directly applied applied or 10-0-0 oc 12=17-4-0, 14=17-4, 0, 16=17-4-0, 17=17-4, 2, 20=17-4-0, 21=17-4, 0 20=17-4-0, 21=17-4, 10, 15=-97 (LC 10 C 10), 15=-97 (LC 10 C 10), 15=-97 (LC 10 C 10), 21=-89 (LC 10, C 16), 15=141 (LC 1 C 16), 17=136 (LC 1 C 15), 20=145 (LC 1)	1) 2) d or -0, 3) 4-0, 3) 4-0, 4) )), 5) )), 5) (0), 4) (1), 5) (1), 5) (1), 6) (1), 8) (2), 8) (3), 8) (3), 9) (4), 9) (4), 9) (5), 9)	Unbalanced i this design. Wind: ASCE Vasd=116mp B=45ft; L=24 MWFRS (dire left and right exposed;C-C reactions sho DOL=1.60 Truss design only. For stu see Standarc or consult qu Building Desi verifying appl requirements All plates are Gable studs a Chord live loa * This truss ha chord live loa * This truss ha	roof live loads have 7-22; Vult=150mpt h; TCDL=4.2psf; B ft; eave=2ft; Cat. II; cctional) and C-C 2 exposed ; end vert for members and i wm; Lumber DOL= and for wind loads i ds exposed to wind I industry Gable Er alified building desi gner / Project engin ied roof live load si specific to the use 2x4 MT20 unless i spaced at 2-0-0 oc. s been designed for d nonconcurrent w as been designed in n chord in all areas w 2-00-00 wide will	been d (3-sect CDL=6 Exp C cone3 z ical left forces i 1.60 pl n the p I (norm d Deta gner a: nown c of this otherwimm chor r a 10.0 ith any for a liv where	considered fc ond gust) .0psf; h=25ft ; Enclosed; one; cantilev; and right & MWFRS fo ate grip ane of the tru al to the face Is as applica ; per ANSI/TI sporsible for overs rain loa truss compoi se indicated. d bearing. 0 psf bottom other live loa e load of 20.0 a rectangle	or ; er JSS ), ble, PI 1. ading nent. Dpsf				This item ha	s been
	(lb) - Max Tension	imum Com	pression/Maximum	1(	chord and an )) All bearings a	y other members. are assumed to be	SP No.	2 .	UIII				digitally sign sealed by Ve	ed and elez. Joaquin. PE
TOP CHORD	1-2=0/24, 5-6=-64/1 8-9=-43/1 12-13=0/2	, 2-4=-94/99 52, 6-7=-80 52, 9-10=-3 24	<ul> <li>(4/99, 4-5=-8/783, =-80/253, 7-8=-80/252, 0=-34/53, 10-12=-51/43,</li> <li>(11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 2, 121 lb uplift at joint 12, 97 lb uplift at joint 18, 99 lb</li> <li>(11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 2, 121 lb uplift at joint 12, 97 lb uplift at joint 18, 99 lb</li> <li>(12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 2, 121 lb uplift at joint 12, 97 lb uplift at joint 18, 99 lb</li> <li>(13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 2, 121 lb uplift at joint 12, 97 lb uplift at joint 18, 99 lb</li> <li>(13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 18, 99 lb</li> <li>(14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 18, 99 lb</li> <li>(14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 18, 99 lb</li> <li>(15) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 18, 99 lb</li> <li>(15) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 18, 99 lb</li> <li>(15) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 18, 99 lb</li> <li>(15) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12, 97 lb</li> <li>(15) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12, 97 lb</li> <li>(15) Provide mechanical connection (by others) of truss to bearing to bearin</li></ul>								ndicated here. es of this			
BOT CHORD	2-21=-34/ 18-20=-34 16-17=-34	/149, 20-21 4/149, 17-1 4/149, 15-1	=-34/149, 8=-34/149, 6=-34/149,	L	16, 97 lb uplit lb uplift at joir DAD CASE(S)	ft at joint 15, 92 lb unt 12, nt 12. Standard	uplift at	joint 14 and	121				signed and s signature mu	sealed and the ust be verified
WEBS	7-17=-97/ 4-21=-13 9-15=-108	/0, 6-18=-12 1/205, 8-16 8/206, 10-1	4=-34/149 22/207, 5-20=-108/20 =-121/207, 4=-126/192	)4,									OII ANY EIECT Joaquin Velez PE No MiTek Inc. DBA Mil 16023 Swingley Ridg	FOFFIC CODIES. 1.68182 Fek USA FL Cert 6634 ge Rd.
NOTES													Chesterfield, MO 63 Date:	017

February 21,2024



🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing
is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the
fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.or
and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

Job	Truss	Truss Type	Qty	Ply		
3883097-106	B02	Common	2	1	T33010620 Job Reference (optional)	

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 21 12:55:15 ID:2nikv2UQFcupKobWEukZiDy7U\_3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.7

### Plate Offsets (X, Y): [6:0-4-0,0-3-0]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 7.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC202	3/TPI2014	<b>CSI</b> TC BC WB Matrix-MS	0.96 0.79 0.15	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.21 -0.33 0.01	(loc) 6-12 6-12 4	l/defl >977 >624 n/a	L/d 360 240 n/a	PLATES MT20 Weight: 64 lb	<b>GRIP</b> 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.3 Structural wood shea Rigid ceiling directly bracing. (size) 2=0-3-8, 4 Max Horiz 2=-151 (L Max Uplift 2=-370 (L Max Grav 2=695 (LC (lb) - Maximum Com	5) d. 7) LC	* This truss h on the bottor 3-06-00 tall b chord and ar All bearings a Provide mec bearing plate 2 and 370 lb AD CASE(S)	as been designed n chord in all area: by 2-00-00 wide wi y other members. are assumed to be hanical connection capable of withst uplift at joint 4. Standard	for a liv s where Il fit betv SP No. to (by oth anding 3	e load of 20.0 a rectangle veen the botte 2 . ers) of truss t 70 lb uplift at	Dpsf om ∵joint							
TOP CHORD	Tension 1-2=0/24, 2-3=-924/6	633, 3-4=-924/633,												
BOT CHORD	4-5=0/24 2-4=-314/743 3-6=-17/405													
NOTES														
<ol> <li>Unbalanc this desig</li> </ol>	ed roof live loads have n.	been considered for												
2) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 4-5-1, Zone2 4-5-1 to 12-10-15, Zone1 12-10-15 to 15-4-0, Zone3 15-4-0 to 18-4-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1 60												This item ha digitally sign sealed by V on the date Printed copi document at	s been ed and elez, Joaquin indicated her es of this re not consid sealed and th	ı, PE e.

Building Designer / Project engineer responsible for 3) verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 21,2024



Job	Truss	Truss Type	Qty	Ply	
3883097-106	E01	Half Hip Supported Gable	1	1	T33010621 Job Reference (optional)

### Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 21 12:55:16 ID:fjt9fa7AvaMuUIFP?hehYBy7Twf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:41

## Plate Offsets (X, Y): [2:0-1-14,0-0-2]

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 20.0 7.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC202	3/TPI2014	CSI TC BC WB Matrix-MS	0.55 0.24 0.10	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 8	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 61 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 P 2x4 SP No.3 *Except* 13-8:2x6 SP No.2 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. (size) 2=12-0-0, 8=12-0-0, 9=12-0-0, 10=12-0-0, 11=12-0-0, 12=12-0-0, 14=12-0-0 Max Horiz 2=321 (LC 9), 14=321 (LC 9) Max Uplift 2=-83 (LC 10), 18=-48 (LC 7), 9=-114 (LC 10), 10=-79 (LC 10), 11=-77 (LC 10), 12=-125 (LC 10), 14=-83 (LC 10) Max Grav 2=167 (LC 1), 8=71 (LC 17), 9=156				<ul> <li>Wind: ASCE 7-22; Vult=150mph (3-second gust)</li> <li>Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;</li> <li>B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed;</li> <li>MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.</li> <li>Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.</li> <li>All plates are 2x4 MT20 unless otherwise indicated.</li> </ul>								others) of truss to 1g 83 lb uplift at joint at joint 9, 79 lb uplift 5 lb uplift at joint 12	
	Max Grav	9=-114 (L0 11=-77 (L0 14=-83 (L0 2=167 (LC (LC 1), 10 1), 12=235	C 10), 10=-79 (LC 10 C 10), 12=-125 (LC 1 C 10) C 10) C 1), 8=71 (LC 17), 9= =154 (LC 1), 11=116 5 (LC 1), 14=167 (LC	$ \begin{array}{c} & 4) \\ 0), & 5) \\ 0), & 6) \\ = 156 \\ 0 \\ (LC \\ = 1) \end{array} $	All plates are 2x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing. Gable studs spaced at 2-0-0 oc. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf									
FORCES	(lb) - Max Tension	imum Com	pression/Maximum		3-06-00 tall b	y 2-00-00 wide will	fit betv	veen the botto	m					
TOP CHORD	1-2=0/21, 4-5=-159/ 7-8=-87/5	2-3=-281/3 /241, 5-6=-1	319, 3-4=-184/264, 143/208, 6-7=-118/16	9) 63,	Lumber desig	y other members. Inated with a "P" is Plate lateral resis	pressu tance v	re-treated wit alues have be	h een				This item ha digitally sign	s been ed and
BOT CHORD	2-12=-11 10-11=-1 8-9=-119	9/212, 11-1 19/212, 9-1 /212	2=-119/212, 0=-119/212,		be protected the treatment	from corrosion per company. Borate	the rec	ommendation	i of				sealed by Ve on the date i	elez, Joaquin, PE indicated here.
WEBS	6-9=-143/ 3-12=-17	/226, 5-10= 0/344	-113/267, 4-11=-91/2	229,	If ACQ, CBA, or CA-B treated lumber is used, improved document are not corrosion protection is required, and G185 galvanized signed and sealed								re not considered sealed and the	
NUTES					have not bee designer to v	ay be used with this design. Incising factors t been considered for this design. Building r to verify suitability of this product for its use						ust be verified ronic copies.		

10) All bearings are assumed to be SP No.2 .

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 21,2024



Job	Truss	Truss Type	Qty	Ply	
3883097-106	E02	Half Hip	3	1	I 33010622 Job Reference (optional)

12 5 [

3

6

2x4 u

3x4 🚽

5-11-14

5-11-14

11

13

ST1.5x8 STP

\*

3x4 =

2

1-0-0

1-0-0

3-6-11 5-0-11

1-6-0 1-6-0

-4⊤

5-5-7

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

Run: 8 73 S Feb 6 2024 Print: 8 730 S Feb 6 2024 MiTek Industries Inc. Wed Feb 21 12:55:16 ID:pAtLzmPbwt6GZP3\_BPjIDsy7U4c-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

11-4-0

5-4-2

12

14

11-9-8

0-5-8 3x4 II 4

5

5x8 = 4x6= ST1.5x8 STP 11-9-8

1-6-0

PLATES

Weiaht: 58 lb

MT20

GRIP

244/190

FT = 20%

L/d

360

240

n/a



5-11-14 5-4-2 0-5-8 Plate Offsets (X, Y): [2:0-0-14,Edge], [5:0-1-12,0-3-0] (psf) Spacing 2-0-0 CSI DEFL in l/defl (loc) 20.0 Plate Grip DOL 1.25 тс 0.71 Vert(LL) 0.15 6-10 >934 7.0 Lumber DOL 1.25 BC 0.55 Vert(CT) 0.12 6-10 >999 0.0\* Rep Stress Incr YES WB Horz(CT) 0.42 -0.02 5 n/a 10.0 Code FBC2023/TPI2014 Matrix-MS 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 2x4 SP No.2 3-06-00 tall by 2-00-00 wide will fit between the bottom 2x4 SP No.2 chord and any other members. 2x4 SP No.3 2x6 SP No.2 All bearings are assumed to be SP No.2 . 5) Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 474 lb uplift at joint Structural wood sheathing directly applied or 2 and 414 lb uplift at joint 5. 6-0-0 oc purlins, except end verticals. LOAD CASE(S) Standard Rigid ceiling directly applied or 4-10-4 oc bracing. 2=0-8-0, 5=0-8-0 Max Horiz 2=321 (LC 9) Max Uplift 2=-474 (LC 10), 5=-414 (LC 10) Max Grav 2=476 (LC 1), 5=409 (LC 1) (Ib) - Maximum Compression/Maximum Tension 1-2=0/21, 2-3=-642/1312, 3-4=-156/155, 4-5=-157/111 2-6=-1132/562, 5-6=-1132/562 3-6=-647/256, 3-5=-606/1395

#### WEBS NOTES

FORCES

TOP CHORD

BOT CHORD

Scale = 1:46.1

Loading

TCDL

BCLL

BCDL

WEBS

OTHERS

BRACING

TOP CHORD

BOT CHORD

REACTIONS (size)

LUMBER

TOP CHORD

BOT CHORD

TCLL (roof)

- 1) Wind: ASCE 7-22; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 8-2-4, Zone3 8-2-4 to 11-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for 2) verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

## Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date

February 21,2024



🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design valid for use only with wit refere connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

5-11-14 11-4-0

Job	Truss	Truss Type	Qty	Ply	
3883097-106	E03	Monopitch	8	1	T33010623 Job Reference (optional)

-1-0-0

1-0-0

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 21 12:55:16 ID:Ahk496t3kr0kkOXUz5vSJ4y7U4?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





5-8-0

5-8-0

Scale = 1:28.8

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

chord and any other members. 5) Bearings are assumed to be: Joint 2 SP No.2 .

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	0.15	6-8	>446	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	0.14	6-8	>484	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP			_				Weight: 27 lb	FT = 20%
LUMBER			6) Refer to	girder(s) for truss to t	russ conr	nections.						
TOP CHORD	2x4 SP No.2		<ol><li>Provide</li></ol>	mechanical connectio	n (by oth	ers) of truss	to					
BOT CHORD	2x6 SP No.2		bearing	plate capable of withs	tanding 2	72 lb uplift a	t joint					
WEBS	2x4 SP No.3		2 and 22	1 lb uplift at joint 5.								
BRACING			LOAD CASE	E(S) Standard								
TOP CHORD	Structural wood she	athing directly applie	ed or									
BOT CHORD	Rigid ceiling directly bracing.	applied or 5-8-6 oc										
REACTIONS	(size) 2=0-8-0 f	5= Mechanical										
	Max Horiz 2=168 (I (	C 7)										
	Max Uplift 2=-272 (I	C 10) 5=-221 (I C 1	0)									
	Max Grav 2=266 (LC	C 1), 5=206 (LC 1)	,									
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension											
TOP CHORD	1-2=0/21, 2-3=-252/	180, 3-4=-10/0,										
	3-6=-150/479											
BOT CHORD	2-6=-50/104, 5-6=0/	0										
NOTES												
1) Wind: AS	CE 7-22; Vult=150mph	(3-second gust)										
Vasd=116	Smph; TCDL=4.2psf; B	CDL=6.0psf; h=25ft;	;									
B=45ft; L=	=24ft; eave=4ft; Cat. II;	Exp C; Enclosed;										
MWFRS (	directional) and C-C Z	one3 -1-0-0 to 2-0-0	,								This item ha	as been
Zone1 2-0	)-0 to 2-8-0, Zone3 2-8	-0 to 5-8-0 zone;									digitally sign	and and
cantilever	left and right exposed	; end vertical left an	a								uigitally sign	
ngni expo	and forces & MW/EBS	for reactions shown									sealed by v	elez, Joaquin, PE
Lumber D	OI -1 60 plate grip DO		,								on the date	indicated here.
2) Building D	)esigner / Project engin	peer responsible for									Printed copi	es of this
verifying a	applied roof live load sh	nown covers rain loa	idina								document a	re not considered
requireme	ents specific to the use	of this truss compor								signed and	sealed and the	
3) This truss	has been designed for	r a 10.0 psf bottom									cignet urc ~	ust he verified
chord live	load nonconcurrent wi	th any other live loa	ds.								signature m	
4) * This trus	ss has been designed f	or a live load of 20.0	Dpsf								on any elec	tronic copies.
on the bot	ttom chord in all areas	where a rectangle									Joaquin Velez PE N	0.68182
3-06-00 ta	all by 2-00-00 wide will	fit between the botto	om								MiTek Inc. DBA Mi	Tek USA FL Cert 6634

16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 21,2024



Job	Truss	Truss Type	Qty	Ply		
3883097-106	E04	Monopitch Supported Gable	1	1	T33010 Job Reference (optional)	)624

Run: 8 73 S Feb 6 2024 Print: 8 730 S Feb 6 2024 MiTek Industries Inc. Wed Feb 21 12:55:16 ID:AyGWjw5jk49KH0LIT9jRVgy7U3k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1



Scale = 1:27.4

Tension

4-5=-50/50

3-6=-268/596

1-2=0/21, 2-3=-170/185, 3-4=-76/91,

2-6=-102/120, 5-6=-56/102

Wind: ASCE 7-22; Vult=150mph (3-second gust)

left and right exposed ; end vertical left and right

reactions shown; Lumber DOL=1.60 plate grip

Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed;

MWFRS (directional) and C-C Zone3 zone; cantilever

exposed;C-C for members and forces & MWFRS for

Truss designed for wind loads in the plane of the truss

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

verifying applied roof live load shown covers rain loading

requirements specific to the use of this truss component.

only. For studs exposed to wind (normal to the face),

Building Designer / Project engineer responsible for

Gable requires continuous bottom chord bearing.

TOP CHORD

BOT CHORD

DOL=1.60

WEBS

NOTES

1)

2)

3)

4)

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 7.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC202	3/TPI2014	<b>CSI</b> TC BC WB Matrix-MP	0.25 0.38 0.18	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	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 Weight: 24 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 P 2x4 SP No.3 2x4 SP No.3 Structural wood shea 5-8-0 oc purlins, exc Rigid ceiling directly bracing. (size) 2=5-8-0,5 Max Horiz 2=165 (LC Max Uplift 2=123 (LC 7=-123 (LC Max Grav 2=182 (LC (LC 1), 7=	athing directly applied cept end verticals. applied or 10-0-0 oc 5 9), 7=165 (LC 9) C 10), 6=-119 (LC 10 C 10) C 10) C 120 (LC 3), 6= 182 (LC 1)	5) 6) 7) 1 or 8) -8-0 ), -278	Gable studs a This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an Lumber desig preservatives reduced 20% be protected the treatment treatment ma If ACQ, CBA, corrosion pro plates may be have not bee	spaced at 2-0-0 oc. s been designed for d nonconcurrent wi as been designed f n chord in all areas y 2-00-00 wide will y other members. gnated with a "P" is b. Plate lateral resist where used in this from corrosion per t company. Borate c y be used if it does or CA-B treated lut tection is required, is e used with this des n considered for this	a 10.0 th any or a liv where fit betw pressu ance v lumbe he rec or otheo not co nber is and G <sup>2</sup> ign. In s desig	) psf bottom other live loa e load of 20.0 a rectangle veen the botto re-treated wi ralues have b r. Plates shou ommendatior r suitable rrode the plat s used, improv 185 galvanize cising factors in. Building	ds. Dpsf om th leen uld n of tes. ved ad					
FORCES	(lb) - Maximum Com	pression/Maximum		designer to v	erify suitability of thi	s prod	uct for its						

intended use.

9) All bearings are assumed to be SP No.2 .

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 2, 119 lb uplift at joint 6 and 123 lb uplift at joint 2.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date

February 21,2024



🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing
is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the
fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org)
and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

Job	Truss	Truss Type	Qty	Ply		
3883097-106	FG01	Floor Girder	1	2	Job Reference (optional)	T33010625

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 21 12:55:17 ID:PrfDEMSMk?Q2JwepT3SINIy7UHT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



#### Scale = 1:42.5

Plate Offsets (2	X, Y): [1:0-3-0,0-1-0],	[8:0-3-0,0-3-0], [12:0-	3-0,0-1-(	)], [13:0-2-12,0	)-1-8], [14:0-2-8,0	-1-8], [15	:0-2-8,0-1-8],	[22:0-2-	8,0-1-8]	, [23:0-2	-12,0-1	-8]		_
Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 NO FBC202	3/TPI2014	CSI TC BC WB Matrix-MS	0.37 0.96 0.37	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.34 -0.47 0.07	(loc) 17-18 17-18 13	l/defl >830 >592 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 243 lb	<b>GRIP</b> 244/190 FT = 11%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD	2x4 SP No.2 2x4 SP No.2 *Excep 2x4 SP No.3 2x4 SP No.3 Structural wood she: 3-1-1 oc purlins, exc Rigid ceiling directly bracing. (size) 13=0-7-4, Max Grav 13=1403 ( (lb) - Maximum Com Tension 1-23=-101/0, 12-13= 2-3=-2560/0, 3-4=-4: 5-6=-6245/0, 6-7=-6: 9-10=-4569/0, 10-11	t* 19-13:2x4 SP No.1 athing directly applied cept end verticals. applied or 10-0-0 oc 23=0-7-4 (LC 1), 23=1305 (LC 1 pression/Maximum 104/0, 1-2=-60/0, 317/0, 4-5=-5525/0, 245/0, 7-9=-6245/0, =-2783/0, 11-12=-64/0	All loads are except if not CASE(S) se provided to d unless other Unbalanced this design. All plates are SP No.1. Recommenc 10-00-00 cc (0.131" X 3") at their outer Use Simpso Truss, Single left end to c chord.	All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. Unbalanced floor live loads have been considered for this design. All plates are 3x4 MT20 unless otherwise indicated. The Fabrication Tolerance at joint 19 = 11% Bearings are assumed to be: Joint 23 SP No.2, Joint 13 SP No.1. Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. Use Simpson Strong-Tie HHUS46 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 19-8-9 from the left end to connect truss(es) to front face of bottom chord.										
BOT CHORD	22-23=0/1536, 21-22 18-20=0/5961, 17-18 15-16=0/5249, 14-18 11-13=-2028/0, 2-23	2=0/3582, 20-21=0/50 8=0/6245, 16-17=0/60 5=0/3818, 13-14=0/16 3=-1875/0, 11-14=0/15	46, 9) 52, 10 50 <b>LC</b> 61, 1)	Fill all nail ho ) Overhang ap DAD CASE(S) Dead + Flo	bles where hange oplied to ply: 1(Fro Standard or Live (balanced	r is in cor ont) ): Lumbe	tact with lum Increase=1.	ber. .00,						
NOTES 1) 2-ply truss (0.131"x3" Top chords oc. Bottom che 1-0-0 oc. Web conne	10-15=0/1044, 3-21 4-21=-1015/0, 9-16= 8-16=-554/0, 5-20=-t 5-18=-128/835, 6-18 to be connected toget ) nails as follows: s connected as follows: ords connected as follows: ected as follows: 2x4 -	=)/102, 9-15=-947/0, =0/1022, 9-15=-947/0, =0/601, 4-20=0/666, 631/0, 8-17=-262/704, =-380/0, 7-17=-324/4 ther with 10d s: 2x4 - 1 row at 1-0-0 ows: 2x4 - 1 row at 1-0-0 in row at 1-0-0 oc.	ı,	Plate Increa Uniform Lo Vert: 13- Concentrat Vert: 24-	ase=1.00 ads (lb/ft) 23=-10, 1-12=-10 ed Loads (lb) 147 (F)	0						This item ha digitally sign sealed by Ve on the date i Printed copie document ar signed and s signature mu on any elect Joaquin Velez PE No MITEK Inc. DBA MIT	s been ed and elez, Joaquin, I ndicated here. es of this e not consider ealed and the ist be verified ronic copies. 	PE

MiTek Inc. DBA MiTek USA FL Cert 663 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 21,2024



Job	Truss	Truss Type	Qty	Ply	
3883097-106	FG02	Floor	1	1	T33010626 Job Reference (optional)

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 21 12:55:17 ID:xf5q10RkzhlBim3cwLx3q5y7UHU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



6x8 =





Scale = 1:22.4

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

											-	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00		0.12	Vert(LL)	n/a	-	n/a	999	м Г20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	0.00	3-4	>999	360		
BCLL	0.0	Rep Stress Incr			0.00	Horz(CT)	0.00	3	n/a	n/a	Mainht 17 lb	ET 200/E 440/E
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-MP							weight: 17 lb	FT = 20%F, 11%E
LUMBER												
TOP CHORD	2x4 SP No.2(flat)											
BOT CHORD	2x4 SP No.2(flat)											
WEBS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD	Structural wood she	athing directly appli	ed or									
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	с									
REACTIONS	(size) 3=0-8-0, 4 Max Grav 3=153 (L0	4= Mechanical C 1), 4=153 (LC 1)										
FORCES	(lb) - Maximum Com	pression/Maximum										
POT CHORD	1-4=-146/0, 2-3=-14	6/0, 1-2=0/0										
WERS	3-4=0/0 1-3-0/0											
NOTES	1 0=0/0											
1) Bearings	are assumed to be: I	nint 3 SP No 2										
2) Refer to d	irder(s) for truss to trus	s connections										
3) Load case	e(s) 1 has/have been m	nodified. Building										
designer i	must review loads to ve	erify that they are co	orrect									
for the inte	ended use of this truss											
4) Recomme	end 2x6 strongbacks, o	n edge, spaced at									This item ha	s haan
10-00-00	oc and fastened to eac	h truss with 3-10d									digitally aig	
(0.131" X	3") nails. Strongbacks	to be attached to w	alls									
at their ou	iter ends or restrained	by other means.									sealed by V	elez, Joaquin, PE
LOAD CASE	S) Standard		~~								on the date	indicated here.
1) Dead + I	Floor Live (balanced): L	_umber Increase=1.	00,								Printed copi	es of this
Plate Inc	loade (lb/ft)										document a	re not considered
Vort: 2	L0aus (10/11)										signed and	sealed and the
ven. s	J- <del>4</del> 10, I-2=-200										signature m	ust he verified
											an any alar	
											on any elec	tronic copies.

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 21,2024



Job	Truss	Truss Type	Qty	Ply	
3883097-106	FT01	Floor	13	1	T33010627 Job Reference (optional)

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 21 12:55:18 ID:Lhj6WQ3HGAOaU?BfbKto4Yy7UHz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.5

Plate Offsets (X, Y): [7:0-1-8 Edge] [14:Edge 0-1-8] [20:0-1-8 Edge]

Plate Offsets (	(X, Y): [7:0-1-8,Edge],	[14:Edge,0-1-8], [20	:0-1-8,Edg	ej	-									
Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 YES FBC202	3/TPI2014	CSI TC BC WB Matrix-MS	0.72 0.98 0.66	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.49 -0.67 0.11	(loc) 18-19 18-19 14	l/defl >578 >421 n/a	L/d 480 360 n/a	PLATES MT20HS MT20 Weight: 126 lb	<b>GRIP</b> 187/143 244/190 FT = 20%F, 11%E	
												-		
LUMBER TOP CHORD	2x4 SP 2850F 2.0E *Except* 9-13:2x4 S	or 2x4 SP M 31(flat) P No.2(flat)	4) 5)	The Fabricat Bearings are SP 2850F 2.	ion Tolerance at j assumed to be: 0E or M 31 .	joint 21 = Joint 25 §	11% SP No.1 , Joii	nt 14						
BOT CHORD	2x4 SP No.1(flat) *E 2850F 2.0E or 2x4 S	xcept* 21-14:2x4 SP SP M 31(flat)	6)	Recommend 10-00-00 oc	2x6 strongbacks and fastened to e	, on edge ach truss	e, spaced at s with 3-10d							
WEBS	2x4 SP No.3(flat)			(0.131" X 3")	nails. Strongbad	ks to be	attached to w	valls						
OTHERS	2x4 SP No.3(flat)			at their outer	ends or restraine	ed by othe	er means.							
BRACING			LO	AD CASE(S)	Standard									
TOP CHORD	Structural wood she 4-7-7 oc purlins, ex	athing directly applie cept end verticals.	d or											
BOT CHORD	Rigid ceiling directly bracing, Except: 2-2-0 oc bracing: 20	applied or 10-0-0 oc -22.	;											
REACTIONS	(size) 14=0-7-4,	25=0-7-4												
	Max Grav 14=1293	(LC 1), 25=1293 (LC	1)											
FORCES	(lb) - Maximum Com	pression/Maximum												
	Tension													
TOP CHORD	1-25=-37/0, 13-14=-	37/0, 1-2=-2/0,												
	2-3=-2180/0, 3-4=-3	770/0, 4-3=-4838/0, 535/0, 7.8=-5430/0												
	8-10=-4852/0 10-11	=-3766/0 11-12=-21	181/0											
	12-13=-2/0	- 0100/0, 11 12- 21	10170,											
BOT CHORD	24-25=0/1245, 23-24	4=0/3090, 22-23=0/4	423,											
	20-22=0/5249, 19-20	0=0/5535, 18-19=0/5	535,									This item ha	s been	
	17-18=0/5268, 16-17	7=0/4418, 15-16=0/3	6091,									digitally sign	ed and	
	14-15=0/1245											sealed by Ve	elez, Joaquin, PE	
WEBS	12-14=-1758/0, 2-25	= -1758/0, 12-15=0/1	1391,									on the date i	ndicated here	
	2-24=0/1390, 11-15=	=-1353/0,3-24=-135 -0/1010 10-16970	3/0, 1/0									Printed conid	as of this	
	4-23=-971/0 10-17=	=0/1010, 10 10= 370	<i>n</i> 0,									document or	55 UI UIIS	
	8-17=-619/0, 5-22=-	616/0, 8-18=-38/467	,									document ar		
	5-20=-117/791, 7-18 7-19=-244/165	8=-566/264, 6-20=-36	66/0,									signed and s	ust be verified	
NOTES												on any elect	ronic copies.	
1) Unbalance	ed floor live loads have	been considered fo	r									Joaquin Velez PE No MiTek Inc. DBA MiT	).68182 Fek USA FL Cert 6634	
<ol> <li>All plates</li> </ol>	are MT20 plates unles	s otherwise indicated	ł.									16023 Swingley Ridg	e Rd.	
<ol> <li>All plates</li> </ol>	are 3x4 MT20 unless o	otherwise indicated.										Chesterfield, MO 63 Date:	017	

February 21,2024



Job	Truss	Truss Type	Qty	Ply		
3883097-106	FT02	Floor Supported Gable	1	1	Job Reference (optional)	T33010628

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 21 12:55:18 ID:GWs1tzCIHI0q2pVRGE0X3Ay7UDw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.1

# Plate Offsets (X, Y): [1:0-3-0,0-1-0], [10:0-3-0,0-2-4], [15:0-3-0,0-1-0]

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(lo	c) l/de	1 L	./d	PLATES	GRIP	
TCLL		40.0	Plate Grip DOL	1.00		TC	0.11	Vert(LL)	n/a		- n/	a 9	99	MT20	244/190	
TCDL		10.0	Lumber DOL	1.00		BC	0.01	Vert(TL)	n/a		- n/	a 9	99			
BCLL		0.0	Rep Stress Incr	YES		WB	0.09	Horiz(TL)	0.00	1	6 n/	a r	ı/a			
BCDL		5.0	Code	FBC2	023/TPI2014	Matrix-MR								Weight: 72 lb	FT = 11%	
LUMBER				I	BOT CHORD	29-30=-3/5, 28-29=	-3/5, 27	/-28=-3/5,		9) I	Provide n	necha	nica	al connection (by	others) of truss	to
TOP CHORD	2x4 SP N	lo.2				26-27=-3/5, 24-26=	-3/5, 23	8-24=-3/5,		ł	bearing p	late c	apa	ble of withstandi	ng 72 lb uplift at	joint
BOT CHORD	2x4 SP N	lo.2 P				22-23=-3/5, 21-22=	-3/5, 20	)-21=-3/5,			l 6, 43 lb	uplift	at jo	oint 29, 155 lb up	lift at joint 28, 13	36 lb
WEBS	2x4 SP N	0.3				19-20=-3/5, 18-19=	-3/5, 17	′-18=-3/5,		ι	uplift at jo	int 27	', 11	6 lb uplift at join	: 26, 139 lb uplift	at
OTHERS	2x4 SP N	0.3				16-17=-3/5				j	oint 24, 1	39 lb	upl	ift at joint 23, 115	b uplift at joint	22,
BRACING				1	WEBS	2-29=-147/56, 3-28	1=-230/1	62,			139 lb up	ift at	joint	t 21, 139 lb uplift	at joint 20, 115 l	lb
TOP CHORD	Structura	I wood she	athing directly applie	d or		4-27=-215/144, 5-2	6=-202	(124,		l	iplint at jo	Int 18	9, 14	is uplin at join	18 and 127 lb u	ιριιπ
	6-0-0 oc	purlins, ex	cept end verticals.			0-24=-21//14/, /-2	3=-218	(147,		i 10) I				transhaaka an	adaa anaaad at	
BOT CHORD	Rigid ceil	ing directly	applied or 10-0-0 oc	:		0-22=-201/123, 9-2 $11_20=-218/147, 12$	2-102	00/122		10) 1			xo s od fa	stoned to each t	ruse with 3-10d	
	bracing.					13-18=-225/153 14	1-17=-1	94/127			0 131" X	3") n	aile	Strongbacks to	he attached to v	valle
REACTIONS	(size)	16=17-2-8	8, 17=17-2-8, 18=17-	·2-8,	NOTES	10 10 220,100,1					at their or	iter e	nds.	or restrained by	other means	ivano
		19=17-2-8	3, 20=17-2-8, 21=17-	2-8,	1) Unhalancor	l floor live loads hav	o boon	considered fo	r	11) (	Jse Sim	son \$	Stroi	na-Tie HTU26 (1	0-10d Girder.	
		22=17-2-8	3, 23=17-2-8, 24=17-	2-8,	this design	I HOUT HVE IDAUS HAV	e been	considered to	1	<i>.</i> .	4-10dx1	1/2 1	rus	s, Single Ply Gird	der) or equivalen	ıt
		20=17-2-0	5, 27=17-2-8, 28=17- 2, 20_17-2-8	-2-8,	<ol> <li>All plates ar</li> </ol>	e 2x4 MT20 unless	otherwi	se indicated		5	spaced a	2-0-	0 oc	max. starting at	2-4-0 from the le	eft
	Max Liplift	29=17-2-0	0, 30=17-2-0 C 6) 17-127 (I C 6)	\ <del>.</del>	3) The Fabrica	tion Tolerance at io	int 25 =	11%. joint 10	=	e	end to 16	-4-0 t	о сс	onnect truss(es)	o front face of to	р
	Max Opint	18-143 (	1 - 6 $19 - 115 (1 - 1)$	), 6)	11%	, <b>,</b>		,		0	chord.					
		20=-139 (	LC 6), 21=-139 (LC )	6). <del>4</del>	4) Gable requi	res continuous botte	om chor	d bearing.		12) I	-ill all nai	hole	s wl	here hanger is in	contact with lum	nber.
		22=-115 (	LC 6), 23=-139 (LC )	6), ť	5) Truss to be	fully sheathed from	one fac	e or securely		13) I	n the LO	AD C	ASE	E(S) section, load	Is applied to the	face
		24=-139 (	LC 6), 26=-116 (LC (	6),	braced agai	nst lateral moveme	nt (i.e. d	liagonal web).		0	of the tru	s are	not	ted as front (F) o	r back (B).	
		27=-136 (	LC 6), 28=-155 (LC	6), (	<ol><li>Gable stude</li></ol>	s spaced at 1-4-0 oc				LOA	D CASE	S)	Star	ndard		
		29=-43 (L	C 6)		<ol><li>Lumber des</li></ol>	ignated with a "P" is	s pressu	re-treated wit	h	1)	Dead +	Floor	Live	e (balanced): Lur	nber Increase=1	.00,
	Max Grav	16=89 (LC	C 4), 17=211 (LC 4),		preservative	es. Plate lateral resi	stance v	alues have be	een		Plate In	reas	e=1.	.00		
		18=238 (L	_C 4), 19=213 (LC 4)	,	reduced 20	% where used in thi	s lumbe	r. Plates shou	lld					This item ha	is been	
		20=231 (L	_C 4), 21=231 (LC 4)	,	be protected	a from corrosion per	the rec	commendation	OT					digitally sign	ed and	
		22=215 (L	_C 4), 23=231 (LC 4)	,	treatment m	ni company. Borale		rrodo tho plat	00					social by V		n DE
		24=231 (L	_C 4), 26=215 (LC 4)	,		ay be used if it use a or CA-B treated li	umbor is	sused improv	cs. .ed					sealed by V	indicated be	II, I ∟ ″≏
		27=228 (L	_C 4), 28=244 (LC 4)	,	corrosion pi	otection is required	and G	185 galvanize	d d					on the date	indicated nei	re.
	(11.) • • •	29=159 (L	LC 1), 30=45 (LC 1)		plates may	be used with this de	sian. In	cising factors	u i					Printed copi	es of this	
FORCES	(ID) - Max Tension	amum Com	pression/Maximum		have not be	en considered for th	nis desig	gn. Building						document a	re not consic	dered
TOP CHORD	1-30=-40	/2. 15-16=-	89/80, 1-2=-5/3, 2-3=	=-5/3.	designer to	verify suitability of the	his prod	uct for its						signed and	sealed and t	he
	3-4=-5/3,	4-5=-5/3, 5	5-6=-5/3, 6-7=-5/3,	,	intended us	е.		_						signature m	ust be verifie	ed
	7-8=-5/3,	8-9=-5/3, 9	9-11=-5/3, 11-12=-5/3	3, 8	<ol> <li>All bearings</li> </ol>	are assumed to be	SP No.	2.						on any elect	ronic copies	i.
	12-13=-5	/3, 13-14=-	5/3, 14-15=-5/3											Joaquin Velez PE N	0.68182	
														MiTek Inc. DBA Mi	Tek USA FL Cert 6	6634

16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 21,2024



ontinued on p	age 2
🔥 WARNIN	IG - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valio	d for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not
a truss syste	em. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall
building des	sign. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing
is always re	equired for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the
fabrication,	storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org)
and BCSI E	Building Component Safety Information available from the Structural Building Component Association (www.shcscomponents.com)

Job	Truss	Truss Type	Qty	Ply		
3883097-106	FT02	Floor Supported Gable	1	1	Job Reference (optional)	T33010628
Builders FirstSource (Plant City, F	L), Plant City, FL - 33567,	Run: 8.73 S Feb 6 2	024 Print: 8.7	730 S Feb 6	2024 MiTek Industries, Inc. Wed Feb 21 12:55:18	Page: 2

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 21 12:55:18 ID:GWs1tzCIHI0q2pVRGE0X3Ay7UDw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Uniform Loads (lb/ft) Vert: 16-30=-10, 1-15=-100 Concentrated Loads (lb) Vert: 31=-75 (F), 32=-75 (F), 33=-75 (F), 34=-75 (F), 35=-75 (F), 36=-75 (F), 37=-75 (F), 38=-79 (F)



Job	Truss	Truss Type	Qty	Ply	
3883097-106	FT03	Floor	3	1	T33010629 Job Reference (optional)

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 21 12:55:18

Page: 1

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,



3x4 =

	17-2-8	
	17-2-8	
Scale = 1:32.3		
Plate Offsets (X, Y):	[15:0-1-8,Edge], [16:0-1-8,Edge]	

	,, i): [10:0 i 0,Edg0	,,[10:0 1 0,Edg0]										
Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 YES FBC2023/TPI2014	CSI TC BC WB Matrix-MS	0.51 0.84 0.43	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.16 -0.22 0.05	(loc) 15-16 15-16 12	l/defl >999 >906 n/a	L/d 480 360 n/a	PLATES MT20HS MT20 Weight: 93 lb	<b>GRIP</b> 187/143 244/190 FT = 20%F, 11%E
											- 5	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat)											
TOP CHORD	Structural wood she	athing directly applie	ed or									
BOT CHORD	6-0-0 oc purlins, ex Rigid ceiling directly bracing.	cept end verticals. applied or 10-0-0 or	с									
REACTIONS	(size) 12=0-7-4, Max Grav 12=926 (L	, 20=0-7-4 _C 1), 20=926 (LC 1	)									
FORCES	(lb) - Maximum Com Tension	pression/Maximum	,									
TOP CHORD	1-20=-38/0, 11-12=- 2-3=-1484/0, 3-4=-2 5-6=-2855/0, 6-7=-2 9-10=-1484/0, 10-11	38/0, 1-2=-2/0, 400/0, 4-5=-2855/0, 855/0, 7-9=-2400/0, 1=-2/0										
BOT CHORD	19-20=0/879, 18-19 15-16=0/2855, 14-1 12-13=0/879	=0/2063, 16-18=0/2 5=0/2715, 13-14=0/2	715, 2063,									
WEBS	10-12=-1240/0, 2-20 2-19=0/900, 9-13=-8 9-14=0/501, 3-18=0, 4-18=-467/0, 7-15=- 5-16=-241/15, 6-15=	0=-1240/0, 10-13=0/ 362/0, 3-19=-862/0, /501, 7-14=-467/0, 101/468, 4-16=-101 =-241/15	900, /468,								This item ha	is been ied and
NOTES											sealed by v	elez, Joaquin, PE
1) Unbalance this design	ed floor live loads have n.	e been considered fo	or								on the date Printed copi	es of this
<ol> <li>All plates a</li> <li>All plates a</li> <li>All plates a</li> <li>All bearing</li> <li>Recomme 10-00-00 c (0.131" X 3 at their out</li> </ol>	are MT20 plates unless are 3x4 MT20 unless of sare assumed to be s nd 2x6 strongbacks, o oc and fastened to ead s") nails. Strongbacks ter ends or restrained S) Standard	s otherwise indicate otherwise indicated. SP No.2. on edge, spaced at sh truss with 3-10d to be attached to w by other means.	d. ralls								document a signed and s signature m on any elect Joaquin Velez PE N MiTek Inc. DBA Mi 16023 Swingley Ridg Chesterfield, MO 6	re not considered sealed and the ust be verified :ronic copies. 
,	-										Data:	ALCONT. AND A STREET, AND A ST

February 21,2024



Job	Truss	Truss Type	Qty	Ply	
3883097-106	FT05	Floor	8	1	T33010630 Job Reference (optional)

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 21 12:55:18 ID:j4GrgRzO3jIARHG0sWisTty7UFV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:36.2

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

Loa TCI TCI BCI BCI	ading LL DL LL DL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 YES FBC202	3/TPI2014	<b>CSI</b> TC BC WB Matrix-MS	0.68 0.98 0.53	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.27 -0.38 0.08	(loc) 16-17 16-17 12	l/defl >860 >624 n/a	L/d 480 360 n/a	<b>PLATES</b> MT20HS MT20 Weight: 105 lb	<b>GRIP</b> 187/143 244/190 FT = 20%F, <sup>2</sup>	11%E
LUI TOI BO <sup>T</sup> WE OTI	MBER P CHORD T CHORD BS HERS ACING	2x4 SP No.2(flat) 2x4 SP No.2(flat) *1 No.1(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat)	Except* 19-12:2x4 SP	6) 7) LC	Recommend 10-00-00 oc (0.131" X 3") at their outer CAUTION, D DAD CASE(S)	2x6 strongbacks, and fastened to ea nails. Strongback ends or restrained o not erect truss ba Standard	on edge ch truss s to be l by othe ackward	e, spaced at s with 3-10d attached to v er means. ds.	valls						
TOI BO	P CHORD	Structural wood sh 5-9-0 oc purlins, e Rigid ceiling directl bracing	eathing directly applie xcept end verticals. y applied or 2-2-0 oc	d or											
RE	ACTIONS	(size) 12=0-3-8 Max Grav 12=1082	3, 22=0-7-4 2 (LC 1), 22=1076 (LC	1)											
FOI	RCES	(lb) - Maximum Co Tension	mpression/Maximum												
то	P CHORD	1-22=-37/0, 11-12= 2-3=-1767/0, 3-4=- 5-6=-3855/0, 6-7=- 9-10=-1731/0, 10-1	-36/0, 1-2=-2/0, 2960/0, 4-5=-3642/0, 3631/0, 7-9=-2937/0, 1=0/0												
BO	T CHORD	21-22=0/1029, 20-2 17-18=0/3855, 16- 14-15=0/3402, 13-	21=0/2479, 18-20=0/3 17=0/3855, 15-16=0/3 14=0/2449, 12-13=0/9	420, 855, 87											
WE	BS	10-12=-1429/0, 2-2 2-21=0/1097, 9-13 9-14=0/725, 3-20= 4-20=-683/0, 7-15= 6-15=-585/67, 5-18 6-16=-187/221	22=-1453/0, 10-13=0/1 =-1068/0, 3-21=-1059 0/716, 7-14=-691/0, :0/458, 4-18=0/452, :=-574/78, 5-17=-192/	2106, /0, 216,									This item ha digitally sign sealed by Ve on the date i	s been ed and elez, Joaqu ndicated h	iin, PE ere.
<b>NO</b> 1) 2) 3) 4)	TES Unbalance this design All plates a All plates a The Fabric	ed floor live loads hav n. are MT20 plates unle are 3x4 MT20 unless cation Tolerance at jo								Printed copie document ar signed and s signature mu on any elect	e not consi e not consi ealed and st be verifi ronic copie	idered the ied s.			
->	D	and a second	Lat 00 CD Na 0 Later	40									T	(0103	

Bearings are assumed to be: Joint 22 SP No.2, Joint 12 SP No.1.

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

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Job	Truss	Truss Type	Qty	Ply		
3883097-106	FT07	Floor Supported Gable	1	1	Job Reference (optional)	T33010631

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 21 12:55:19 ID:wISiByPQ\_aaF?i3HR?v8uAy7UIp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



#### Scale = 1:42.5

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL		40.0	Plate Grip DOL	1.00		TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL		10.0	Lumber DOL	1.00		BC	0.01	Vert(TL)	n/a	-	n/a	999			
BCLL		0.0	Rep Stress Incr	YES		WB	0.03	Horiz(TL)	0.00	21	n/a	n/a			
BCDL		5.0	Code	FBC20	23/TPI2014	Matrix-MR							Weight: 109 lb	FT = 20%F, 11%	6E
LUMBER				В	OT CHORD 3	39-40=0/7, 38-39=0	)/7, 37-:	38=0/7, 36-37	/=0/7,						
TOP CHORD	2x4 SP N	lo.2(flat)			3	35-36=0/7, 34-35=0	)/7, 33-;	34=0/7, 32-33	s=0/7,						
BOT CHORD	2x4 SP N	lo.2 P(flat)			3	31-32=0/7, 30-31=0	)/7, 28-3	30=0/7, 27-28	8=0/7,						
WEBS	2x4 SP N	lo.3(flat)			2	26-27=0/7, 25-26=0	)/7, 24-2	25=0/7, 23-24	=0/7,						
OTHERS	2x4 SP N	lo.3(flat)			2	22-23=0/7, 21-22=0	)/7								
BRACING					WEBS 19-22=-131/0, 18-23=-134/0, 17-24=-133/0,										
TOP CHORD	Structural wood sheathing directly applied or			d or	1	16-25=-133/0, 15-26=-133/0, 13-27=-133/0,									
	6-0-0 oc	purlins, exc	cept end verticals.		1	12-28=-133/0, 11-3	0=-133	0, 10-31=-13	3/0,						
BOT CHORD	Rigid cei	ing directly	applied or 10-0-0 oc		(	9-32=-133/0, 8-33=	-133/0,	7-34=-133/0,							
	bracing.				6	-35=-133/0, 5-36= 3-38=-136/0 2-39=	-133/0, -124/0	4-37=-133/0,							
REACTIONS	(size)	21=23-10-	-8, 22=23-10-8,	N			0								
		23=23-10-	-8, 24=23-10-8,	1)	All plates are	1 5v3 MT20 unles	e other	vise indicated	4						
		25=23-10-	-8, 26=23-10-8,	2	Gable require	es continuous hotto	m chor	d bearing							
		27=23-10-	-8, 28=23-10-8,	2)	Truss to be fi	ully sheathed from	one fac	e or securely							
		30=23-10-	-8, 31=23-10-8,	0,	braced against lateral movement (i.e. diagonal web).										
		32=23-10-	-8, 33=23-10-8,	4	<ol> <li>Gable study spaced at 1-4-0 oc.</li> </ol>										
		34=23-10	-0, 33=23-10-0, 9 27_22 10 9	5	5) Lumber designated with a "P" is pressure-treated with										
		38-23-10	-0, 37=23-10-0, -8, 30=23-10-8	0,	preservatives	S. Plate lateral resis	stance v	alues have b	een						
		40-23-10	-8		reduced 20%	where used in this	s lumbe	r. Plates shou	ld						
	Max Grav	21-55 (1 0	(1) 22 - 144 (1 - 1)		be protected	from corrosion per	the rec	ommendation	n of						
		23=147 (I	(10, 22 = 144) (10, 1), C (1), 24=146 (10, 1)		the treatment	t company. Borate	or othe	r suitable							
		25=147 (L	C(1), 21=147 (LC 1), C(1), 26=147 (LC 1)		treatment ma	y be used if it does	s not co	rrode the plat	es.						
		27=147 (I	C(1), 28=147 (LC(1))		If ACQ, CBA	or CA-B treated lu	umber is	s used, improv	ved						
		30=147 (L	.C 1). 31=147 (LC 1).		corrosion pro	tection is required,	and G	185 galvanize	d						
		32=147 (L	C 1), 33=147 (LC 1),		plates may b	e used with this de	sign. In	cising factors					I his item ha	s been	
		34=147 (L	C 1), 35=147 (LC 1),		have not bee	n considered for th	is desig	n. Building					digitally sign	ed and	
		36=147 (L	C 1), 37=146 (LC 1),		designer to v	erify suitability of the	nis prod	uct for its					sealed by Ve	loaquin	PF
		38=150 (L	.C 1), 39=135 (LC 1),		intended use								on the data i	ndiastad barr	, I L
		40=49 (LC	C 1)	6)	All bearings a	are assumed to be	SP No.	2.						nuicateu nere	5.
FORCES	(lb) - Max	kimum Com	pression/Maximum	7)	Recommend	2x6 strongbacks,	on edge	e, spaced at					Printed copie	es of this	
	Tension				10-00-00 oc a	and fastened to ea	ch truss	s with 3-10d					document ar	e not conside	ered
TOP CHORD	CHORD 1-40=-43/0, 20-21=-50/0, 1-2=-7/0, 2-3=-7/0, 3-4=-7/0, 4-5=-7/0, 5-6=-7/0, 6-7=-7/0, 7-8=-7/0, 8-9=-7/0, 9-10=-7/0, 10-11=-7/0, 11-12=-7/0, 12-13=-7/0, 13-15=-7/0,			7/0.	(0.131" X 3")	nails. Strongback	s to be	attached to w	alls				signed and s	sealed and the	е
					at their outer	ends or restrained	by othe	er means.					signature m	ist he verified	1
				, L	LOAD CASE(S) Standard								on only deet		4
													on any elect	ronic copies.	
	15-16=-7	/0, 16-17=-7	7/0, 17-18=-7/0,										Joaquin Velez PE No	.68182	<i>61</i> 1
	18-19=-7	/0, 19-20=-7	7/0										16023 Swingley Ridg	eRd. FL Cert 663	54
													Chesterfield, MO 63	017	

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Date:



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Job	Truss	Truss Type	Qty	Ply		
3883097-106	G01	Common Supported Gable	2	1	Job Reference (optional)	3010632

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Wed Feb 21 12:55:19 ID:OyyDGg0jmRQwYe2x?ZpP2Cy7UJK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



#### Scale = 1:44.8

Plate Offsets (	(X, Y): [2:0	-3-8,Edge],	[2:0-4-12,Edge], [12	2:0-3-8,Ed	ge], [12:0-3-12,	Edge]								
Loading TCLL (roof) TCDL BCLL BCDL		(psf) 20.0 7.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC202	23/TPI2014	<b>CSI</b> TC BC WB Matrix-MS	0.18 0.23 0.11	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 12	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 92 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	<ul> <li>D 2x4 SP No.2</li> <li>D 2x4 SP No.2 P 2x4 SP No.3</li> <li>D Structural wood sheathing directly applied or 10-0-0 oc purlins.</li> <li>D Rigid ceiling directly applied or 6-0-0 oc bracing.</li> <li>S (size) 2=21-4-0, 12=21-4-0, 14=21-4-0, 15=21-4-0, 16=21-4-0, 17=21-4-0, 19=21-4-0, 20=21-4-0, 21=21-4-0, 22=21-4-0, 25=21-4-0</li> <li>Max Horiz 2=-71 (LC 8), 25=-71 (LC 8) Max Uplift 2=-140 (LC 10), 15=-140 (LC 10), 144, 462 (LC 10), 15=-140 (LC 10),</li> </ul>			1) 2) ed or 4-0, 3) -4-0, 4)	Unbalanced this design. Wind: ASCE Vasd=116mp B=45ft; L=24 MWFRS (dir left and right exposed;C-C reactions sho DOL=1.60 Truss design only. For stu see Standard or consult qu Building Des	nbalanced roof live loads have been considered for is design. /ind: ASCE 7-22; Vult=150mph (3-second gust) asd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; =45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; IWFRS (directional) and C-C Zone3 zone; cantilever ift and right exposed ; end vertical left and right xposed;C-C for members and forces & MWFRS for actions shown; Lumber DOL=1.60 plate grip IOL=1.60 I'LS adesigned for wind loads in the plane of the truss nJy. For studs exposed to wind (normal to the face), ee Standard Industry Gable End Details as applicable, r consult qualified building designer as per ANSI/TPI 1. validing Designer / Project engineer responsible for eritiving applied roof live load shown covers rain loading							al connection (by ble of withstandii joint 2, 95 lb uplii 33 lb uplift at joint t at joint 15, 163 t 12 and 140 lb u ndard	others) of truss to Ig 140 lb uplift at joint t at joint 19, 43 lb 21, 95 lb uplift at b uplift at joint 14, plift at joint 2.
	Max Uplift Max Grav	Max Uplift         2=-140 (LC 10), 12=-140 (LC 10), 14=-163 (LC 10), 15=-43 (LC 10), 16=-95 (LC 10), 19=-95 (LC 10), 20=-43 (LC 10), 21=-163 (LC 10), 22=-140 (LC 10), 25=-140 (LC 10)           Max Grav         2=192 (LC 21), 12=192 (LC 22), 14=336 (LC 22), 15=60 (LC 1), 16=180 (LC 22), 17=165 (LC 1), 19=180 (LC 21), 20=60 (LC 1), 21=336 (LC 21), 22=192 (LC 22), 25=192 (LC 21)			verifying app requirements All plates are Gable requir Gable studs This truss ha chord live loa * This truss f on the bottor 3-06-00 tall t	ilied roof live load s s specific to the use 2x4 MT20 unless es continuous bott spaced at 2-0-0 oc s been designed fo ad nonconcurrent w has been designed n chord in all areas y 2-00-00 wide will we other members	hown c e of this otherwi or chor or a 10. vith any for a liv s where I fit betw	overs rain load truss compon se indicated. d bearing. D psf bottom other live load e load of 20.0 a rectangle veen the botto	ding ent. ds. psf m				This item ha	s been
	(lb) - Max Tension		pression/Maximum	10	)) Lumber desi preservative	gnated with a "P" is s. Plate lateral resis	s pressu stance v	re-treated wit	h een				sealed by Ve	elez, Joaquin, PE
	<ul> <li>1-2=0/17, 2-4=-125/110, 4-5=-11/83,</li> <li>5-6=0/94, 6-7=-5/177, 7-8=-5/177, 8-9=0/92,</li> <li>9-10=0/66, 10-12=-125/98, 12-13=0/17</li> </ul>				reduced 20% be protected the treatmen	where used in this from corrosion per t company. Borate	s lumbe the rec or othe	r. Plates shou commendation r suitable	ld of		es of this re not considered			
BOT CHORD WEBS NOTES	<ul> <li>2-21=-75/206, 20-21=-75/206, 19-20=-75/206, 17-19=-75/206, 16-17=-75/206, 15-16=-75/206, 14-15=-75/206, 12-14=-75/206</li> <li>7-17=-131/72, 6-19=-128/252, 5-20=-63/166, 4-21=-208/371, 8-16=-128/252, 9-15=-63/166, 10-14=-208/371</li> </ul>				If ACQ, CBA corrosion pro plates may b have not bee designer to v intended use () All bearings	the treatment company. Borate or other suitable       document are not corr         treatment may be used if it does not corrode the plates.       signed and sealed an         If ACQ, CBA, or CA-B treated lumber is used, improved       signature must be ver         corrosion protection is required, and G185 galvanized       on any electronic cop         plates may be used with this design. Incising factors       on any electronic cop         have not been considered for this design. Building       Joaquin Velez PE No.68182         designer to verify suitability of this product for its       Interk USA_FL C         intended use.       16023 Swingler Ridge Ridg         All bearings are assumed to be SP No 2       Chesterfield, MO 63017								sealed and the Jst be verified ronic copies. 0.68182 Fek USA FL Cert 6634 je Rd. 017

February 21,2024



Job	Truss	Truss Type	Qty	Ply		
3883097-106	G02	Common	10	1	T3 Job Reference (optional)	3010633

Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 21 12:55:20 ID:1S6U4KXFySWTMeZRDtcFz\_y7UJx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:42.9

#### Plate Offsets (X, Y): [2:0-2-14,0-0-2], [9:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25		TC	0.48	Vert(LL)	0.12	9-12	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25		BC	0.61	Vert(CT)	-0.22	8-9	>999	240		
BCLL	0.0^	Rep Stress Incr	YES		WB	0.24	Horz(CT)	0.05	6	n/a	n/a		FT 000/
BCDL	10.0	Code	FBC202	3/1912014	Matrix-MS		-					Weight: 89 lb	FT = 20%
LUMBER			5)	* This truss h	nas been designed	d for a liv	e load of 20.	0psf					
TOP CHORD	2x4 SP No.2			on the bottor	n chord in all area	s where	a rectangle						
BOT CHORD	2x4 SP No.2			3-06-00 tall b	by 2-00-00 wide w	ill fit betv	veen the bott	om					
WEBS	2x4 SP No.3			chord and ar	ly other members		0						
BRACING			6)	All bearings	are assumed to be	e SP NO.	2.						
TOP CHORD	Structural wood she	athing directly applie	ed or ()	bearing plate	e capable of withs	n (by oth tanding 4	38 lb uplift a	to t joint					
BOT CHORD	Rigid ceiling directly bracing.	applied or 5-3-2 oc	LO	2 and 438 lb AD CASE(S)	uplift at joint 6. Standard								
REACTIONS	(size) 2=0-8-0, 6	6=0-8-0											
	Max Horiz 2=-77 (LC	C 8)											
	Max Uplift 2=-438 (L	C 10), 6=-438 (LC 1	0)										
	Max Grav 2=843 (L0	C 1), 6=843 (LC 1)											
FORCES	(lb) - Maximum Com Tension	npression/Maximum											
TOP CHORD	1-2=0/17, 2-3=-1875	5/1424, 3-4=-1744/1;	369,										
	4-5=-1744/1369, 5-6	6=-1875/1424, 6-7=0	/17										
BOT CHORD	2-8=-1207/1755, 6-8	3=-1207/1755											
WEBS	3-9=-309/375, 4-9=- 5-8=-309/375	367/628, 4-8=-367/6	28,										
NOTES													
1) Unbalance this design	ed roof live loads have n.	been considered for	r										
2) Wind: AS	CE 7-22; Vult=150mph	(3-second gust)										I his item ha	is been
Vasd=116	mph; TCDL=4.2psf; B	CDL=6.0psf; h=25ft;										digitally sigr	ied and
B=45ft; L=	=24ft; eave=4ft; Cat. II;	Exp C; Enclosed;										sealed by V	elez, Joaquin, PE
MWFRS (	directional) and C-C Z	one3 -1-0-0 to 2-0-0	,									on the date	indicated here.
Zone1 2-0	)-0 to 6-5-1, Zone2 6-5	-1 to 14-10-15, Zone	e1									Printed coni	es of this
14-10-15	to 19-4-0, Zone3 19-4-	0 to 22-4-0 zone;										document o	ro not considered
cantilever	left and right exposed	; end vertical left and	0										
for reaction	sed;C-C for members and sed;C-C for members	and lorces & IVIVER	5									signed and	sealed and the
DOI = 1.60												signature m	ust be verified
3) Building D	Jesigner / Project engin	neer responsible for										on any elect	ronic copies.
verifying a	applied roof live load sh	nown covers rain loa	ding									Joaquin Velez PE N	0.68182
requirements specific to the use of this truss component.												MiTek Inc. DBA Mi	Tek USA FL Cert 6634
4) This truss has been designed for a 10.0 psf bottom     16023 Swingle       Chesterfield,     Chesterfield,								Chesterfield, MO 63	ge Ku. 3017				

This truss has been designed for a 10.0 psf bottom 4) chord live load nonconcurrent with any other live loads.

Date: February 21,2024



Page: 1

Job	Truss	Truss Type	Qty	Ply		
3883097-106	G03	Common	3	1	T33010634 Job Reference (optional)	

### Run: 8,73 S Feb 6 2024 Print: 8,730 S Feb 6 2024 MiTek Industries. Inc. Wed Feb 21 12:55:20 ID:5tZ?M47\_PWhWIApsbf?ISJy7UJA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:24.2

## Plate Offsets (X, Y): [2:0-2-14,Edge]

1-10-6

		-										
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	0.06	6-9	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	0.06	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 27 lb	FT = 20%
			E) * This tr	ing has been designed	d for a liv	in land of 20	Onof					
	2v4 SD No 2		on the h	ottom chord in all area	u iui a iiv as where	a rectande	.upsi					
BOT CHORD	2x4 SF N0.2 2x4 SP No 2		3-06-00	tall by 2-00-00 wide w	ill fit betv	veen the bot	tom					
WERS	2x4 SP No 3		chord ar	d any other members								
BRACING	24 01 10.0		6) All beari	ngs are assumed to b	e SP No.	2.						
TOP CHORD	(ACING ) CORD Structural wood sheathing directly applied or 7) Provide mechanical connection (by others) of truss to											
	6-0-0 oc purlins	cauling areaty applic	bearing	plate capable of withs	tanding 3	37 lb uplift a	at joint					
BOT CHORD	Rigid ceiling direct	y applied or 4-0-3 oc	2 and 33	7 lb uplift at joint 4.								
	bracing.	,	LOAD CAS	E(S) Standard								
REACTIONS	(size) 2=0-8-0	4=0-8-0										
	Max Horiz 2=-31 (L	.C 8)										
	Max Uplift 2=-337	LC 10), 4=-337 (LC 1	10)									
	Max Grav 2=325 (	_C 1), 4=325 (LC 1)										
FORCES	(lb) - Maximum Co	mpression/Maximum										
	Tension											
TOP CHORD	1-2=0/17, 2-3=-45	/2024, 3-4=-451/202	4,									
	4-5=0/17											
BOT CHORD	2-6=-1719/409, 4-6	5=-1719/409										
WEBS	3-6=-831/160											
NOTES												
1) Unbalance	ed roof live loads hav	e been considered fo	r									
this design		h (0										
2) Wind: ASU	CE 7-22; Vuit=150mp	n (3-second gust)									This item ha	as been
Vasu=110 B_45ft:1 -	-24ft: pave=4ft: Cat I	I Evo C: Enclosed:	,								digitally sign	ed and
MWFRS (	directional) and C-C	70ne3 -1-0-0 to 2-0-0	)								sealed by V	elez loaquin PF
Zone2 2-0	Miver As (uneculonal) and C-C 20mbs - 1-0-010 2-0-0, Sealed Dy Velez, JOaquin, PE									indicated here		
cantilever left and right exposed : end vertical left and												
right exposed; porch left and right exposed; C-C for Printed copies of this										es of this		
members and forces & MWFRS for reactions shown; document are not consider									re not considered			
Lumber D	OL=1.60 plate grip D	OL=1.60									signed and	sealed and the
3) Building D	esigner / Project eng	ineer responsible for									signature m	ust be verified
verifying a	pplied roof live load	shown covers rain loa	ading								on any elect	tronic conies
requireme	nts specific to the us	e of this truss compor	nent.								Josephin Voloz PE N	68182
4) I NIS TRUSS	has been designed t	ura 10.0 pst bottom	do								MiTek Inc. DBA Mi	Tek USA FL Cert 6634

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

February 21,2024

16023 Swingley Ridge Rd. Chesterfield, MO 63017

Date:



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor1 bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.