

RE: 24-0602-A1 - GAINEY HOME MiTek, Inc. 16023 Swingley Ridge Rd. Site Information: Chesterfield, MO 63017 Customer Info: ROBINSON RENOVATION& CUSTOM HOMES INC. Project Name: 364 AME - MOME Model: -Lot/Block: -Subdivision: -Address: 3181 SW COUNTY RD 138, -City: FORT WHITE State: FL Name Address and License # of Structural Engineer of Record, If there is one, for the building. Name: License #: Address: City: State: General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions): Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8 Wind Code: ASCE 7-22 Wind Speed: 130 mph Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 74 individual, 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	No.	Seal#	Truss Name	Date
1	T37314091	AT-1	5/14/25	15	T37314105	FG-3	5/14/25
2	T37314092	T-1	5/14/25	16	T37314106	FT-1	5/14/25
3	T37314093	T-2	5/14/25	17	T37314107	FT-2	5/14/25
4	T37314094	PG-1	5/14/25	18	T37314108	FT-3	5/14/25
5	T37314095	PT-1	5/14/25	19	T37314109	FT-4	5/14/25
6	T37314096	PT-2	5/14/25	20	T37314110	<u>FT-5</u>	5/14/25
7	T37314097	F-1	5/14/25	21	T37314111	FT-6	5/14/25
8	T37314098	F-2	5/14/25	22	T37314112	FT-7	5/14/25
9	T37314099	F-3	5/14/25	23	T37314113	FT-8	5/14/25
10	T37314100	F-4	5/14/25	24	T37314114	FT-9	5/14/25
11	T37314101	F-5	5/14/25	25	T37314115	T-3	5/14/25
12	T37314102	F-6	5/14/25	26	T37314116	<u>T</u> -4	5/14/25
13	T37314103	FG-1	5/14/25	27	T37314117	<u>T-5</u>	5/14/25
14	T37314104	FG-2	5/14/25	28	T37314118	T - 6	5/14/25

This item has been digitally signed and sealed by Ebinger, Joseph, PE 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 MiTek USA, Inc. under my direct supervision based on the parameters provided by Arnold Truss Mfg. LLC.

Truss Design Engineer's Name: Ebinger, Joseph

My license renewal date for the state of Florida is February 28, 2027.

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



May 14,2025



RE: 24-0602-A1 - GAINEY HOME

MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

Site Information:

Customer Info: ROBINSON RENOVATION& CUSTOM HOMES INC. Project Name: GAINEY HOME Model: -Lot/Block: -Address: 3181 SW COUNTY RD 138, -Subdivision: -State: FL City: FORT WHITE

No. 29 30 31 32 33	Seal# T37314119 T37314120 T37314121 T37314122 T37314123	Truss Name T-7 T-8 T-9 T-10 T-11	Date 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25
35 36 37 38 39 41 42 43	T37314125 T37314126 T37314126 T37314127 T37314128 T37314129 T37314130 T37314130 T37314132 T37314132 T37314133	T-12 T-15 T-16 T-17 T-18 T-19 T-20 T-21 T-22	5/14/25 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25
44 45 46 47 49 50 51 52 52	T37314134 T37314135 T37314136 T37314137 T37314138 T37314139 T37314139 T37314140 T37314140 T37314141 T37314142 T37314142	T-23 T-24 T-25 T-26 T-27 T-28 T-29 T-30 T-31 T-32	5/14/25 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25
53 54 556 557 590 61 62	T37314143 T37314144 T37314145 T37314145 T37314146 T37314147 T37314148 T37314149 T37314150 T37314151 T37314151	T-32 T-33 UT-1 UT-2 UT-2 UT-3 MG-1 J8V J7-8	5/14/25 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25
63 64 65 66 67 68 69 70 71 72	T37314153 T37314154 T37314155 T37314156 T37314156 T37314157 T37314158 T37314159 T37314160 T37314160 T37314161 T37314162	J7-8A J7-8S J7 J4-10 C-1 C-2 C-3 C-4 C-5 C-5 C-6	5/14/25 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25 5/14/25
73 74	T37314163 T37314164	C-7 C-8	5/14/25 5/14/25

Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	AT-1	Attic	5	1	Job Reference (optional)	T37314091

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:33:55 ID:bgnl?TEO6XpCq1wDOxaUSpyHfyF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 7.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC202	23/TPI2014	CSI TC BC WB Matrix-AS	0.59 0.48 0.68	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.13 -0.23 0.01 0.03	(loc) 17-21 17-21 12 25-27	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 274 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x6 SP No.1 *Excep 2x4 SP No.1 2x4 SP No.2 *Excep 28-2,12-10:2x6 SP N Structural wood she except end verticals (4-6-10 max.): 5-7.	t* 5-7:2x4 SP No.1 t* 4-8:2x4 SP No.1, No.1 athing directly applied , and 2-0-0 oc purlins	N(1) 2) 1,	Unbalanced this design. Wind: ASCE Vasd=101mp B=45ft; L=25 MWFRS (dird Zone1 1-6-0 10-10-15 to 1	roof live loads hav 7-22; Vult=130mp h; TCDL=4.2psf; I ft; eave=4ft; Cat. I ectional) and C-C 2 to 6-8-0, Zone2 6- 8-2-0, Zone2 18-2	e been of h (3-sec 3CDL=6 l; Exp B Zone3 - 8-0 to 1 2-0 to 22	considered fo cond gust) .0psf; h=25ft; ; Enclosed; 1-6-0 to 1-6-0 0-10-15, Zone1 :-4-15, Zone1	r ;), e1					
BOT CHORD JOINTS	Rigid ceiling directly 1 Brace at Jt(s): 24, 22, 21, 17, 16, 29	applied.		22-4-15 to 26 exposed ; en members and	6-4-0 zone; cantile d vertical left and i d forces & MWFR	ver left a right exp S for rea	and right oosed;C-C for ctions shown	I;					
REACTIONS	(size) 12=0-7-0, Max Horiz 28=-306 (Max Grav 12=1807 (28=0-5-4 LC 10) (LC 19), 28=1807 (LC	3) 2 18)	Lumber DOL Building Des verifying app	=1.60 plate grip D igner / Project eng lied roof live load s	OL=1.60 ineer re shown c) sponsible for overs rain loa	ding					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	, 4)	Provide adec	juate drainage to p	orevent	water ponding	g.					
TOP CHORD	1-2=0/54, 2-3=-1255 4-5=-686/245, 5-6=- 6-7=-1710/475, 7-8= 9-10=-1269/0, 10-11 10-122086/0	5/0, 3-4=-1066/42, 1710/475, 685/249, 8-9=-1075, =0/54, 2-28=-2063/0,	5) 6) /42, 7)	This truss ha chord live loa * This truss h on the bottom	s been designed for ad nonconcurrent v as been designed n chord in all areas	or a 10.0 vith any for a liv s where) psf bottom other live loa e load of 20.0 a rectangle	ds. Opsf					
BOT CHORD	27-28=-1359/95, 23- 20-23=0/2442, 18-20 13-14=-1271/0, 12-1 24-26=-161/414, 22- 21-22=-2016/0, 17-2 16-17=-1522/0 15-1	105, 8) 9)	 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 3) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-29, 8-29; Wall dead load (5.0psf) on member(s).3-26, 9-15 3) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 24-26, 								This item has been digitally signed and sealed by Ebinger, Joseph, PI on the date indicated here.		
WEBS	26-27=0/179, 3-26=- 9-15=-254/437, 4-29 26-28=0/1200, 12-16 24-25=-939/0, 23-24 20-22=0/584, 20-21= 17-18=-492/0, 16-18 14-15=0/2415, 2-26= 6-29=-282/115, 5-29 7-29=-274/1237	-253/440, 13-15=0/18)=-914/0, 8-29=-918/0 5=0/1275, 25-26=0/22 =0/1502, 22-23=-488 =-332/0, 17-20=0/590 =0/1508, 14-16=-904 =0/1626, 10-15=0/164)=-279/1235,	6, 10), 215, %0, 1, 11 %0, 46, 12 LC	22-24, 21-22)) This truss de structural wo chord and 1/2 the bottom cl)) Graphical pu or the orienta bottom chord 2) Attic room ch DAD CASE(S)	 17-21, 10-17, 15- sign requires that od sheathing be a 2" gypsum sheetro nord. representation tion of the purlin a . ecked for L/360 de Standard 	a minim pplied d ock be a does no long the eflection	um of 7/16" irectly to the t oplied directly ot depict the s top and/or	top / to size				Joseph Ebinger - PE No. 9 MITCH Inc. DBA MITCH U 10023 Swingley Ridge Ro Date:	e not considered sealed and the ist be verified ronic copies.

May 14,2025

Page: 1



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 property 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)

Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-1	Attic Supported Gable	1	1	Job Reference (optional)	137314092

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:06 ID:naDQ7ZbDYKxO5_L7k0wioJyHdQO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Plate Offsets (X, Y): [2:0	-3-12,0-1-8], [3:0-0-9,0-1-0], [8	:0-2-12,0-2	2-0], [10:0-2-1	12,0-2-0], [15:0-0-9	,0-1-0], [1	6:0-3-12,0-1-8	3], [33:0-	2-8,0-3	-0]			
Loading TCLL (roof) TCDL BCLL BCDL		(psf) 20.0 7.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC20	23/TPI2014	CSI TC BC WB Matrix-AS	0.25 0.07 0.28	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 18	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 295 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD TOP CHORD 2x4 SP No.1 SOT CHORD 2x4 SP No.1 WEBS 2x4 SP No.2 *Except* 38-2,18-16:2x6 SP No.1, 7-11:2x4 SP No.1 DTHERS 2x4 SP No.2 BRACING TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-5-14 max.): 8-10. SOT CHORD Rigid ceiling directly applied. IOINTS 1 Brace at Jt(s): 39, 32, 30, 29, 25, 23, 42, 43, 44, 45 REACTIONS (size)		OP CHORD	$\begin{array}{l} 2\text{-}38\text{=-}1065/307, 1\text{-}2\text{=-}0/48, 2\text{-}3\text{=-}552/151,\\ 3\text{-}5\text{=-}526/146, 5\text{-}6\text{=-}473/169, 6\text{-}7\text{=-}651/202,\\ 7\text{-}8\text{=-}903/189, 8\text{-}9\text{=-}1736/375,\\ 9\text{-}10\text{=-}1736/375, 10\text{-}11\text{=-}903/194,\\ 11\text{-}12\text{=-}651/199, 12\text{-}13\text{=-}473/169,\\ 13\text{-}15\text{=-}534/144, 15\text{-}16\text{=-}552/151,\\ 16\text{-}17\text{=-}0/48, 16\text{-}18\text{=-}1065/270\\ 37\text{-}38\text{=-}278/277, 36\text{-}37\text{=-}278/277,\\ 35\text{-}36\text{=-}278/277, 31\text{-}35\text{=-}147/445,\\ 28\text{-}31\text{=-}94/280, 26\text{-}28\text{=-}96/283,\\ 24\text{-}26\text{=-}101/297, 21\text{-}24\text{=-}145/442,\\ 20\text{-}21\text{=-}94/107, 19\text{-}20\text{=-}94/107,\\ 18\text{-}19\text{=-}94/107, 32\text{-}34\text{=-}45/164,\\ 30\text{-}32\text{=-}53/170,\\ 25\text{-}29\text{=-}30/106, 23\text{-}25\text{=-}53/170,\\ \end{array}$			1, 202,	2) Wir Vas B=- MV Zor 11- 21- enc ford DC 3) Tru onl see or d	-second gust) IL=6.0psf; h=25ft; sp B; Enclosed; a3 -1-6-12 to 1-5-4, to 11-4-8, Zone1 o 21-7-0, Zone1 ft and right exposed; C-C for members and wn; Lumber e plane of the truss ormal to the face), Details as applicable, er as per ANSI/TPI 1.						
REACTIONS	42, 43, 44, 45 (size) 18=24-8-8, 19=24-8-8, 20=24-8-8, 21=24-8-8, 24=24-8-8, 26=24-8-8, 28=24-8-8, 35=24-8-8, 35=24-8-8, 35=24-8-8, 35=24-8-8, 38=224-8-8, 38=224-8-8, 35=301 (LC 9), 38=-222 (LC 8), 37=-11 (LC 1), 20=12 (LC 0), 21=223 (LC 10), 36=9 (LC 8), 37=131 (LC 1), 28=100 (UC 1), 28=100 (UC 1), 38=201 (LC 1), 38=223 (LC 10), 36=9 (LC 8), 37=131 (LC 1), 28=100 (UC 1), 38=201 (UC 1),		25-29=-30/106, 23-25=-53/170, 22-23=-47/156 2-42=-178/782, 42-43=-188/824, 35-43=-181/797, 34-35=-432/22, 6-34=-469/74, 21-22=-437/22, 12-22=-469/56, 21-45=-150/781, 44-45=-155/808, 16-44=-147/765, 7-40=-36/361, 39-40=-39/352, 39-41=-55/352, 11-41=-52/361, 9-39=-268/110, 8-39=-206/1022, 10-39=-201/1022, 8-40=-8/80, 10-41=-8/80, 33-34=-168/48, 32-33=-118/0, 31-32=-18/5, 30-31=-111/0, 28-30=-27/72, 28-29=-110/0, 25-28=-24/69, 25-26=-111/0, 23-26=-15/6, 23-24=-118/58, 5-43=-156/47, 3-42=-83/46, 37-42=-118/58, 5-43=-159, 36-43=-8/88, 15-44=-8/20/6, 10-44=-116/55, 13-45=-6/50				4) Bui ver req 5) Prc 6) All ind 7) Ga 8) Tru bra	Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding. All plates are 1.5x4 () MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing. Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). This item has been digitally signed and sealed by Ebinger, Joseph, PI on the date indicated here. Printed copies of this document are not considered						
FORCES	(lb) - Max Tension	timum Com	pression/Maximum	N 1	OTES) Unbalance this desigr	ed roof live loads ha	ave been o	considered for	r				signed and s signature m on any elect	sealed and the ust be verified ronic copies.

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Date:

May 14,2025

Page: 1



Continued on page 2 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	GAINEY HOME		
24-0602-A1	T-1	Attic Supported Gable	1	1	Job Reference (optional)	T37314092	
Arnold Truss Mfg. LLC. Ocala, EL - 34475. Run: 8,83 S. Apr 24 2025 Print: 8,830 S Apr 2				2025 MiTek Industries, Inc. Tue May 13 10:34:06	Page: 2		

- 9) Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 11) * 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.
- 12) Ceiling dead load (5.0 psf) on member(s). 6-7, 11-12, 7-40, 39-40, 39-41, 11-41; Wall dead load (5.0psf) on member(s).6-34, 12-22
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 222 lb uplift at joint 38, 196 lb uplift at joint 18, 301 lb uplift at joint 35, 289 lb uplift at joint 21, 1 lb uplift at joint 37, 67 lb uplift at joint 36, 1 lb uplift at joint 19 and 68 lb uplift at joint 20.
- 14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:06 ID:naDQ7ZbDYKxO5_L7k0wioJyHdQO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

May 14,2025

This item has been digitally signed and

sealed by Ebinger, Joseph, 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.

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

👠 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. WARNING - verify design parameters and READ NOTES ON THIS AND INCLOSED INTERNETING TO THE REFERENCE FOR UNITY TO THE INSTANCE OF THE ADDRESS OF THE ADDRESS

Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-2	Attic Girder	1	1	Job Reference (optional)	T37314093

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:07 IC i7J4zJC?f

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ID:naDQ7ZbDYKxO5_L7k0wioJyHdQO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
5x5=
8^{12} $3x4 = 46 9 47$ $10x4$ 3x6 = 7 $10x46x6 = 6$ 40 41 39 112 $3x6 = 123x6 = 12$ $3x6 = 12$ $3x6 = 13$ 15

☆ 18 2120 19 2x4 **"**

5

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15-10-0

		275 25 22 28 29 15
	² x4 ∥ ³ x8 ∥ ⁵ x5 = ² x6 − NAILE ² x4 ∥ ³ x8 ∥ ⁵ x5 = ² x6 − NAILE	x4=26AILED XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	3x4= 3x6= 3x4= 1 4x8 NAILED	NAILED 3x6= 3x6= 3x4= NAILED 3x4= 3x8 II
BOTTOM CHORD IN ATTIC ROOM IN LIEU OF PURLINS SPEC STRUCTURAL WOOD SHEATHING TO BE DESIGNED AND	CIFIED. 6-11-12 6-10-4 6-7-8	20-3-4 18-2-12 24-8-8
FURNISHED BY OTHERS.	4-3-84-5-4 9-8-012-4-41	5-0-8 $+ 4-3-8$
	0-1-12 2-2-4 0-2-12	

10-9-12

-9-7 10-9-12

6-0-12 6-0-12 6-4-15

1-5-83-3-8

3

	4-3-8 9-8-012-4-415-0-8		
	4-3-8 2-8-4 2-8-4 2-8-4 2	2-8-4 4-3-8	
	0-1-12	0-6-0	
	2-2-4	2-0-8	
	0.1.9	0-1-12	
Scale = 1:123.3	0-1-0		
Plate Offsets (X, Y): [2:0-3-12,0-1-12], [3:0-0-9,0-1-0], [7:0-1-9,0	0-1-8], [8:0-2-8,0-1-13], [10:0-2-8,0-1-13],	[11:0-1-9,0-1-8], [15:0-0-9,0-1-0], [1	6:0-3-12,0-1-12], [33:0-2-8,0-3-0]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 7.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 NO FBC202	3/TPI2014	CSI TC BC WB Matrix-MS	0.31 0.44 0.40	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.04 -0.06 0.01 -0.01	(loc) 29-30 29-30 18 25-29	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 295 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD JOINTS	 2x4 SP No.1 2x4 SP No.1 2x4 SP No.1 2x4 SP No.2 *Except* 7-11:2x4 SP No.1, 38-2,18-16:2x6 SP No.1 2x4 SP No.2 Structural wood sheathing directly applied or 4-5-5 oc purlins, except end verticals. Rigid ceiling directly applied or 5-9-11 oc bracing. 1 Brace at Jt(s): 32, 30, 29, 25, 23, 42, 43, 44, 45 (size) 18=6-9-4, 19=6-9-4, 20=6-9-4. 		BC d or W	DT CHORD	37-38=-279/230, 3 35-36=-279/230, 3 28-31=0/901, 26-2 21-24=-125/439, 2 19-20=-72/67, 18-1 30-32=-593/0, 29-3 25-29=-1097/0, 23 34-35=-301/66, 6-2 21-22=-318/56, 12 7-40=-25/331, 40-4 39-41=-44/322, 11 2-42=-168/78, 42 35-43=-171/803, 2	6-37=-2 1-35=-5: 8=0/868 0-21=-7: 19=-72/6 30=-109 -25=-55: 34=-470, 44=-478 14=-28/3 -22=-47 14=-28/3 -39=-40, -43=-17 1-45=-1: 6-44=-1	79/230, 22/441, , 24-26=-588/ 2/67, 77, 32-34=0/84 7/0, 5/0, 22-23=0/7 4/3, 0/31, 1/22, 1/320, 50/788, 47/772,	'0, 45, 799	 5) Provide adequa 6) All plates are 1.3 indicated. 7) Truss to be fully braced against I 8) Gable studs spa 9) This truss has b chord live load r 10) * This truss has on the bottom cl 3-06-00 tall by 2 chord and any c 11) Ceiling dead load 7-40, 40-41, 39- member(s).6-34 			e drainage to prevent water ponding. ix4 () MT20 unless otherwise sheathed from one face or securely ateral movement (i.e. diagonal web). ced at 1-4-0 oc. een designed for a 10.0 psf bottom ionconcurrent with any other live loads. been designed for a live load of 20.0psf ord in all areas where a rectangle -00-00 wide will fit between the bottom ther members. d (5.0 psf) on member(s). 6-7, 11-12, 41, 11-39; Wall dead load (5.0psf) on	
REACTIONS	(size) 18=6-9-4, 21=6-9-4, 35=6-9-4, 38=6-9-4 Max Horiz 38=302 (I Max Uplift 18=-200 (20=-59 (L 35=-554 (29=-256 (L)))	19=6-9-4, 20=6-9-4, 24=6-9-4, 33=6-9-4, 36=6-9-4, 37=6-9-4, _C 7) (LC 25), 19=-1 (LC 24 C 20), 21=-518 (LC 24 (LC 15), 36=-58 (LC 24)	, 4), 14), 21),		$\begin{array}{c} 44-45=-155/815, 16-44=-147/772,\\ 10-39=0/84, 8-40=0/84, 9-41=-283/113,\\ 8-41=-212/1053, 10-41=-208/1053,\\ 33-34=-896/0, 32-33=-928/0, 31-32=0/1378,\\ 30-31=-479/0, 28-30=0/541, 28-29=-343/0,\\ 25-28=0/581, 25-26=-495/0, 23-26=0/1408,\\ 23-24=-932/0, 22-24=-839/0, 3-42=-68/15,\\ 37-42=-114/26, 5-43=-2/62, 36-43=-8/91,\\ 15-44=-68/15, 19-44=-114/24, 13-45=-6/62,\\ 20-45=-12/91\end{array}$					 member(s).6-34, 12-22 Bottom chord live load (40.0 psf) and additional chord dead load (10.0 psf) applied only to room. 30-32, 29-30, 25-29, 23-25, 22-23 Provide mechanical connection (by others) of tru bearing plate capable of withstanding 225 lb upl 38, 554 lb uplift at joint 35, 518 lb uplift at joint 2 uplift at joint 18, 58 lb uplift at joint 36, 1 lb uplift 19 and 59 lb uplift at joint 20. 			
	Max Grav 18=1095 20=25 (L0 24=1342 12), 35=1 37=134 (L	(LC 24) (LC 1), 19=134 (LC 1 C 25), 21=149 (LC 5) (LC 12), 33=1362 (LC 44 (LC 4), 36=21 (LC _C 1), 38=1095 (LC 1	1), NC (, 1) (C (C 24), 2) 1)	DTES Unbalanced this design. Wind: ASCI Vasd=101m P=45ft: L=2	I roof live loads hav E 7-22; Vult=130mp nph; TCDL=4.2psf; I	e been o h (3-seo BCDL=6	considered for cond gust) 5.0psf; h=25ft;	r				This item ha digitally sign sealed by Et on the date i	s been ed and binger, Joseph, PE ndicated here.
FORCES	(lb) - Maximum Corr Tension	pression/Maximum		MWFRS (di	rectional); cantileve	r left an	d right expose	ed ;				Printed copie	es of this
TOP CHORD	1 -12=0/48, 2-3=-556/151, 3-5=-530/145, 5-6=-476/172, 6-7=-654/200, 7-8=-882/165, 8-9=-1742/340, 9-10=-1742/340, 10-11=-882/168, 11-12=-654/200, 12-13=-476/172, 13-15=-538/146, 15-16=-556/151, 16-17=0/48, 2-38=-1072/219, 16-18=-1072/194			 end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading 					Joseph Ebinger PE No. 98947 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Drefs				

verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

May 14,2025

Page: 1



Continued on page 2 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/PTI 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	GAINEY HOME	T07044000
24-0602-A1	T-2	Attic Girder	1	1	Job Reference (optional)	137314093

- 14) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.
- 16) Attic room checked for L/360 deflection.
- 17) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (lb/ft)
 - Vert: 1-2=-54, 2-6=-54, 6-7=-64, 7-8=-54, 8-10=-54,
 - 10-11=-54, 11-12=-64, 12-16=-54, 16-17=-54,
 - 18-38=-20, 22-34=-40, 7-40=-10, 40-41=-10,
 - 39-41=-10, 11-39=-10
 - Drag: 6-34=-10, 12-22=-10 Concentrated Loads (lb)
 - Vert: 29=-24 (B), 48=-24 (B), 49=-24 (B), 50=-24 (B), 51=-24 (B), 52=-24 (B), 53=-24 (B)

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:07 ID:naDQ7ZbDYKxO5_L7k0wioJyHdQO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2

This item has been digitally signed and sealed by Ebinger, Joseph, 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.

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

May 14,2025



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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	PG-1	Half Hip	2	2	Job Reference (optional)	T37314094

Scale = 1:83.6

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:05 ID:UFuJg3o4Jg4WHuLMaRTJsizHI4L-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



 $\begin{matrix} 4 - 3 - 8 \\ 4 - 3 - 8 \end{matrix} + \begin{matrix} 6 - 11 - 12 \\ 2 - 8 - 4 \end{matrix} + \begin{matrix} 9 - 8 - 0 \\ 2 - 8 - 4 \end{matrix} + \begin{matrix} 12 - 4 - 4 \\ 2 - 8 - 4 \end{matrix} + \begin{matrix} 15 - 0 - 8 \\ 1 - 1 - 4 \end{matrix} + \begin{matrix} 17 - 8 - 12 \\ 2 - 8 - 4 \end{matrix} + \begin{matrix} 20 - 5 - 0 \\ 2 - 8 - 4 \end{matrix} + \begin{matrix} 23 - 1 - 4 \\ 2 - 8 - 4 \end{matrix} + \begin{matrix} 24 - 8 - 8 \\ 1 - 7 - 4 \end{matrix}$

Plate Offsets ([1:0-1-8,0-1-8], (X, Y): [23:0-4-0,0-3-0	, [2:0-2-0,0-0-8], [10:0)])-2-0,0-2-()], [11:0-2-4,0-	·1-12], [12:0-2-4,0)-1-12], [1	4:0-1-12,0-1-	8], [15:0	-2-4,0-1-	•12], [17	:0-2-0,0	0-2-0], [21:0-2-4,0)-2-0],		
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 40.0 10.0 0.0* 10.0	Spacing 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	0.83 0.90 0.88	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.73 -1.14 0.09 0.27	(loc) 19-20 19-20 13 19-20	l/defl >402 >257 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT20HS Weight: 373 lb	GRIP 244/190 187/143 FT = 20%		
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x6 SP No.1 *Excep 2x6 SP No.1 *Excep 2.0E 2x4 SP No.2 *Excep No.1 Structural wood she 2-9-3 oc purlins, exr Biold ceiling directly	ot* 1-2:2x4 SP No.1 ot* 16-23:2x6 SP 2400 ot* 12-13,1-23:2x6 SP eathing directly applied cept end verticals.	1) DF d or 2)	2-ply truss to (0.131"x3") 1 Top chords o oc, 2x6 - 2 rd Bottom chor staggered at Web connec 0-9-0 oc, 2x All loads are except if not	b be connected to nails as follows: connected as follo ows staggered at ds connected as t 0-9-0 oc. tted as follows: 2: 4 - 1 row at 0-9-0 e considered equa ed as front (F) or	ogether wi ows: 2x4 - 0-9-0 oc. follows: 2 k6 - 2 row oc. ally applied back (B)	th 10d 1 row at 0-9 x6 - 2 rows s staggered a d to all plies, race in the L0	-0 at DAD	12) Use 1-1, max con 13) Use 6-10 left cho 14) Fill 15) Har	MiTek , /2 nails i x. startin nect trus MiTek 6d nails end to c rd, skew all nail h nger(s) o	JL24 (\ nto Tru g at 7 ss(es) f HUS26 into Tri onnect ved 0.0 oles w r other	With 4-10d nails in iss) or equivalent 0-8 from the left et to back face of bc 6 (With 14-16d na uss) or equivalen truss(es) to back deg.to the left, si here hanger is in connection device	nto Girder & 2-10d x spaced at 1-4-0 oc and to 9-8-8 to ottom chord. ils into Girder & t at 11-0-8 from the c face of bottom oping 0.0 deg. down. contact with lumber. ce(s) shall be		
REACTIONS	 Actions <						is (F) or (B), onsidered for onsidered for gest) is (F) or (B), is (F) or (B), onsidered for is (C)								
FORCES	Max Grav 13=1957 (LC 17), 23=2694 (LC 17) 4 RCES (lb) - Maximum Compression/Maximum Tension 4 P CHORD 1-2=-158/137, 3-22=-345/118, 2-3=-212/119, 3-4=-15892/1007, 4-5=-17684/622, 5-7=-16896/490, 7-8=-16896/490, 8-9=-14614/610, 9-10=-11395/592, 10-11=-7427/450, 11-12=-3174/210, 12-13=-1871/138 5 T CHORD 22-23=-1067/11110, 21-22=-1251/12276, 20-21=-988/15896, 19-20=-602/17689, 18-19=-622/14619, 17-18=-605/11400, 615-17=-462/14619, 615-17=-462/14619, 615-18, 615-18, 615				 Wind: ASCE 7-22, Valle 130/min (3-Second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-3-8 to 3-3-8, Zone1 3-3-8 to 24-6-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 						ease=1 bads (II 2=-100 ted Loa =-85 (E	How (balanced): Lumber increase i se=1.00 (ds (lb/ft) 100, 3-12=-100, 13-23=-20 ed Loads (lb) -85 (B), 20=-29 (B), 25=-900, 29=-29 (B)			
BOT CHORD					Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding.This item has be digitally signed a sealed by Ebing on the date indicAll plates are MT20 plates unless otherwise indicated.on the date indic							s been ed and binger, Joseph, PE ndicated here.			
WEBS	1-23=-263/106, 3-23 1-3=-147/259, 3-21= 4-20=0/2150, 5-20=- 7-19=-197/68, 8-19= 9-18=-63/3385, 9-17 10-17=-150/4174, 10 11-14=-1614/143, 11 12-14=-219/3245	All plates are 4x5 (=) MT20 unless otherwise indicated. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 12 and E lb uplift to joint 22.						re not considered sealed and the ust be verified ronic copies.							

May 14,2025

Page: 1



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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	PT-1	Half Hip	1	2	Job Reference (optional)	T37314095

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:05 ID:YJVdX2xWX8UVcAGq238QFdylylL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



 $\begin{matrix} 4 - 3 - 8 \\ 4 - 3 - 8 \end{matrix} + \begin{matrix} 6 - 11 - 12 \\ 2 - 8 - 4 \end{matrix} + \begin{matrix} 9 - 8 - 0 \\ 2 - 8 - 4 \end{matrix} + \begin{matrix} 12 - 4 - 4 \\ 2 - 8 - 4 \end{matrix} + \begin{matrix} 15 - 0 - 8 \\ 1 - 7 - 4 \end{matrix} + \begin{matrix} 17 - 8 - 12 \\ 2 - 8 - 4 \end{matrix} + \begin{matrix} 20 - 5 - 0 \\ 2 - 8 - 4 \end{matrix} + \begin{matrix} 23 - 1 - 4 \\ 2 - 8 - 4 \end{matrix} + \begin{matrix} 24 - 8 - 8 \\$

Scale = 1:83.6	5
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Plate Offsets (X, Y): [1:0-1-8,0-1-8], [3:0-2-12,Edge], [12:0-2-4,0-1-8]

Loading		(psf)	Spacing	1-4-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP			
TCLL (roof)		40.0	Plate Grip DOL	1.00		тс	0.62	Vert(LL)	-0.50	19-20	>587	480	MT20	244/190			
TCDL		10.0	Lumber DOL	1.00		BC	0.84	Vert(CT)	-0.75	19-20	>391	360					
BCLL		0.0*	Rep Stress Incr	NO		WB	0.53	Horz(CT)	0.06	13	n/a	n/a					
BCDL		10.0	Code	FBC202	3/TPI2014	Matrix-MS		Wind(LL)	0.24	19-20	>999	240	Weight: 345 lb	FT = 20%			
LUMBER TOP CHORD	2x4 SP No.1				2-ply truss to (0.131"x3") n	be connected toge ails as follows:	ether wi	th 10d	0	12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 900							
WEBS	2x6 SP No.1 2x4 SP No.2 No.1	*Except	* 12-13,1-23:2x6 SP		oc, 2x6 - 2 ro Bottom chore	bws staggered at 0 ds connected as fo	-9-0 oc. Ilows: 2	x6 - 2 rows	0	des	sign/sele sponsibili	ction o ty of ot	f such connection hers.	i device(s) is the			
BRACING					staggered at	0-9-0 oc.	0			LOAD	CASE(S) Sta	ndard				
TOP CHORD	Structural wo 3-11-6 oc pu	ood shea Irlins, ex	athing directly applied cept end verticals.	or	0-9-0 oc, 2x4	- 1 row at 0-9-0 o	- 2 row c.	s staggered a	τ	1) D P	ead + Ro late Incre	oof Live ase=1	e (balanced): Lurr .00	iber Increase=1.00,			
BOT CHORD	Rigid ceiling bracing.	directly	applied or 10-0-0 oc	2)	All loads are except if note	considered equally ed as front (F) or ba	/ applie ack (B)	d to all plies, face in the LO	DAD	U	niform Lo Vert: 1-2	oads (∥ 2=-67,	b/ft) 3-12=-67, 13-23=	=-13			
REACTIONS	(size) 13 Max Horiz 23 Max Uplift 13 Max Grav 13	8=0-7-0, 8=187 (L 8=-223 (l 8=-1158 (23=0-5-4 C 12) _C 9), 23=-215 (LC 8)) 3)	CASE(S) sec provided to d unless other Unbalanced	ction. Ply to ply cor listribute only loads wise indicated. roof live loads have	nection noted	s have been as (F) or (B), considered for	r	С	oncentra Vert: 25	ted Lo =-900	ads (lb)				
FORCES	(lh) Maximu)=1150 (LC 1), 23=1003 (LC		this design.												
FURGES	(ID) - Maximu		pression/maximum	4)	Wind: ASCE	7-22; Vult=130mp	h (3-sec	cond gust)									
TOP CHORD	Tension DP CHORD 1-2=-103/97, 3-22=-116/62, 2-3=-144/79, 3-4=-7946/1728, 4-5=-8262/1641, 5-7=-7902/1532, 7-8=-7902/1532, 8-9=-7275/1407, 9-10=-5907/1139, 10-11=-3968/762, 11-12=-1666/317,				B=45ft; L=25 MWFRS (dire Zone1 3-2-12 exposed ; en members and Lumber DOI	ft; eave=4ft; Cat. II ectional) and C-C 2 2 to 24-5-12 zone; d vertical left and r d forces & MWFRS =1 60 plate grip D	; Exp B Zone3 0 cantilev ight exp for rea	; Enclosed; -2-12 to 3-2-1 er left and rigi posed;C-C for ctions shown;	2, ht ;								
BOT CHORD	22-23=-1415 20-21=-1713 18-19=-1416 15-17=-771/3 13-14=-33/14	5/6023, 2 5/7946, 1 5/7275, 1 3968, 14 45	1-22=-1637/6585, 9-20=-1643/8262, 7-18=-1148/5907, -15=-326/1666,	5) 6) 7)	Building Desi verifying app requirements Provide adeq All plates are	igner / Project engi lied roof live load s specific to the use uate drainage to p	hown c hown c of this revent	sponsible for overs rain loa truss compon water ponding wise indicated	ding nent. J.				This item ha digitally sign sealed by El	s been ed and binger, Joseph, PE			
WEBS	1-23=-165/72 1-3=-99/168, 4-20=-321/39 5-19=-545/18 8-19=-196/69 9-18=-300/14 10-17=-400/2 11-15=-472/2 12-14=-358/1	2, 3-23= , 3-21=-1 93, 5-20 84, 7-19 94, 8-18 452, 9-1 2059, 10 2443, 11 1855	-6165/1264, 196/1481, 4-21=-472/ =-44/181, =-163/40, =-411/103, 7=-663/146, h-15=-859/184, -14=-971/202,	7) 8) 76, 9) 10) 11)	All plates are 3x4 (=) MT20 unless otherwise indicated. on the of the otherwise indicated. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. Description 0) * 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. Signed 3-06-00 tall by 2-00-00 wide will fit between the bottom on any 0 ther members. 1) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 223 lb uplift at joint 13 and 215 lb uplift at joint 23. Jacent Elinere						on the date in Printed copie document and signed and s signature me on any elect	ndicated here. es of this re not considered sealed and the ust be verified ronic copies.					
NOTES	12-14=-358/1	1855	,	11)	bearing plate 13 and 215 lt	capable of withsta o uplift at joint 23.	anding 2	23 lb uplift at	joint				Joseph Ebinger PE No. 9 MiTek Inc. DBA MiTek U 16023 Swingley Ridge Ro Date:)8947 JSA FL Cert 6634 ad, Chesterfield, MO (

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Page: 1



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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	PT-2	Half Hip	9	2	Job Reference (optional)	T37314096

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:05 ID:M7GJct0rL3gNpIEF_xqYmmylyEy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



 4-3-8
 6-11-12
 9-8-0
 12-4-4
 15-0-8
 17-8-12
 20-5-0
 23-1-4
 24-8-8

 4-3-8
 2-8-4
 2-8-4
 2-8-4
 2-8-4
 2-8-4
 2-8-4
 2-8-4
 1-7-4

Scale = 1:83.6		-	-	-
Plate Offsets (X, Y):	[2:0-1-8.0-1-8], [4:0-2-12.Edge], [13:0-2-4.0-1-8],	[24:0)-2-4,0-	2-81

H

	(,,, ,). [2:0 : 0;0 : 0],[0.0 2 .,0 .	0], [= =	/ = 0]								
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 40.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-4-0 1.00 1.00 NO FBC202	23/TPI2014	CSI TC BC WB Matrix-MS	0.59 0.82 0.50	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.47 -0.71 0.06 0.25	(loc) 20-21 20-21 14 20-21	l/defl >616 >410 n/a >999	L/d 480 360 n/a 240	PLATES MT20 Weight: 350 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES	2x4 SP No.1 2x6 SP No.1 2x4 SP No.2 *Exce No.1 Structural wood sh 4-1-4 oc purlins, er Rigid ceiling directl bracing. (size) 14=0-7-(Max Horiz 24=314 Max Grav 14=1388 (lb) - Maximum Con Tension	pt* 13-14,24-2:2x6 Si eathing directly applie xcept end verticals. y applied or 10-0-0 or), 24=0-5-4 (LC 12) (LC 9), 24=-233 (LC ; (LC 1), 24=1821 (LC npression/Maximum	1) P ed or 2) c 8) 3) C 1) 4)	2-ply truss to (0.131"x3") r Top chords c oc, 2x6 - 2 rc Bottom chorr staggered at Web connec All loads are except if not CASE(S) se provided to c unless other Unbalanced this design. Wind: ASCE Vasd=101m B=45ft; L=25	be connected tog hails as follows: connected as follo bows staggered at 6 ds connected as follo bows staggered at 6 ds connected as follows: 2x- considered equal ed as front (F) or t ction. Ply to ply co distribute only load wise indicated. roof live loads hav 7-22; Vult=130mp ph; TCDL=4.2psf; 5ft; eave=4ft; Cat.	gether wi ws: 2x4 - 0-9-0 oc. ollows: 2 4 - 1 row ly applie- back (B) innection ds noted ve been of both (3-sec BCDL=3 II; Exp B	th 10d 1 row at 0-9 x6 - 2 rows at 0-9-0 oc. d to all plies, face in the L0 s have been as (F) or (B), considered for cond gust) .0psf; h=25ft ; Enclosed;	DAD ;;	12) Har pro lb c dese res LOAD (1) Do Pl Ul	nger(s) o vided su lown and sign/sele ponsibili CASE(S ead + Ro ate Incre ate Incre niform Lo Vert: 1-i oncentra Vert: 26	br other ifficient d 171 II ction o ty of ot) Star bod Live base=1 bads (II 2=-67, tted Lo b=-900	r connection devia to support conce b up at 4-11-4 or f such connectior hers. ndard e (balanced): Lum .00 b/ft) 2-3=-67, 4-13=-6 ads (lb)	2e(s) shall be ntrated load(s) 900 top chord. The device(s) is the iber Increase=1.00, 7, 14-24=-13
TOP CHORD	Tension CHORD 1-2=0/66, 2-3=-111/68, 4-23=-153/78, 3-4=-107/59, 4-5=-7597/2015, 5-6=-7966/1883, 6-8=-7664/1662, 8-9=-7664/1662, 9-10=-7086/1497, 10-11=-5773/1203, 11-12=-3887/800, 12-13=-1636/332, 13-14=-1091/226, 2-24-295/4420,				MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 24-6-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 Building Designer / Project engineer responsible for								
BOT CHORD	23-24=-1731/5734, 21-22=-2000/7597, 19-20=-1506/7086, 16-18=-810/3887, 14-15=-34/142	22-23=-1957/6335, 20-21=-1869/7966, 18-19=-1212/5773, 15-16=-341/1636,	6) 7) 8) 9)	requirements Provide adec All plates are All plates are This truss ba	s specific to the us quate drainage to MT20 plates unle 3x4 (=) MT20 un as been designed	prevent prevent ess other nless oth for a 10 (truss compo water pondin wise indicate erwise indicate	nent. g. ed. ated.				This item ha digitally sign sealed by El on the date i	s been ed and pinger, Joseph, PE indicated here.
WEBS	'EBS 4-24=-5770/1553, 2-4=-217/314, 4-22=-187/1527, 5-22=-485/74, 11 5-21=-277/434, 6-21=-60/164, 6-20=-496/234, 8-20=-164/39, 9-20=-237/675, 9-19=-393/118, 10-19=-347/1394, 10-18=-644/155, 1 11-18=-427/2002, 11-16=-840/194, 12-16=-498/2390, 12-15=-953/211, 13-15=-374/1820 OTES				ad nonconcurrent has been designed m chord in all area by 2-00-00 wide w hy other members hanical connectio e capable of withs b uplift at joint 24.	with any d for a liv as where rill fit betv n (by oth tanding 2	other live loa e load of 20. a rectangle veen the bott ers) of truss 33 lb uplift a	ads. Opsf com to t joint				Printed copie document and signed and s signature mu on any elect	es of this re not considered sealed and the ust be verified ronic copies.

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Page: 1



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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	F-1	Floor	3	1	Job Reference (optional)	T37314097

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:33:59 ID:gSV4eqIDXrAeUW_pEqGhoSzHuel-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:26.7

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	тс	0.15	Vert(LL)	-0.07	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.10	11-12	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 63 lb	FT = 0%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied,
	except end verticals.
BOT CHORD	Rigid ceiling directly applied.
REACTIONS	(size) 9= Mechanical, 14=0-7-0
	Max Grav 9=513 (LC 1), 14=478 (LC 2)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-14=-449/0, 6-9=-475/0, 1-2=-996/0,
	2-3=-996/0, 3-4=-1439/0, 4-5=-1021/0,
	5-6=-1021/0, 6-7=0/0
BOT CHORD	13-14=0/74, 12-13=0/1439, 11-12=0/1439,
	10-11=0/1439, 9-10=0/116, 8-9=0/0
WEBS	1-13=0/985, 2-13=-190/0, 6-10=0/960,
	5-10=-181/4, 3-13=-552/0, 4-10=-531/0,
	3-12=-28/67, 4-11=-32/62
NOTES	

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated. 2) 3) Plates checked for a plus or minus 0 degree rotation about its center.
- 4۱ Refer to girder(s) for truss to truss connections.
- 5) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to
- the bottom chord. 6) 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.

LOAD CASE(S) Standard

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Joseph Ebinger PE No. 98947 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

May 14,2025



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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	F-2	Floor Girder	1	1	Job Reference (optional)	T37314098

Concentrated Loads (lb)

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:33:59 ID:m7HjkKMwya2IKOqRZTI0YpzHuaL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:23.4				JL24	JL24		JL24						
Plate Offsets (X	K, Y): [1:0-2-4,0-1-8],	[3:0-2-4,0-1-8], [5:0	-4-0,0-4-8]										
Loading TCLL TCDL BCLL BCDI	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	1-4-0 1.00 1.00 NO EBC2023/TPI20	CSI TC BC WB	x-MP	0.12 0.26 0.31	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.02 0.00	(loc) 5 4-5 4	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190 FT = 0%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Plates cher	2x4 SP No.1 2x6 SP No.1 2x4 SP No.2 *Excep Structural wood she 4-6-13 oc purlins, e Rigid ceiling directly bracing. (size) 4= Mecha Max Grav 4=868 (LC (lb) - Maximum Com Tension 1-6=-545/0, 3-4=-54 2-3=-999/0 5-6=0/0, 4-5=0/0 1-5=0/1102, 2-5=-11	t* 6-1,4-3:2x6 SP No athing directly applie xcept end verticals. applied or 10-0-0 oc inical, 6= Mechanica C 1), 6=960 (LC 1) ipression/Maximum 5/0, 1-2=-999/0, 6/0, 3-5=0/1102	Vi o.1 ed or	ert: 5=-509 (F)	, 7=-509 (F	⁻), 8=-50	9 (F)					vveigin. 20 ib	11 = 078
 Plates cheet about its ce 2) Refer to gir Recommer 10-00-00 oo (0.131" X 3 at their oute Use MiTek 1-1/2 nails max. startir connect tru Fill all nail H In the LOAI of the truss LOAD CASE(S Dead + FI Plate Incm Uniform L Vert: 4- 	cked for a plus or mini- enter. rder(s) for truss to trus nd 2x6 strongbacks, o c and fastened to eac ser ends or restrained 1 JL24 (With 4-10d nai into Truss) or equival- ng at 0-9-3 from the le iss(es) to front face of holes where hanger is D CASE(S) section, la are noted as front (F 5) Standard loor Live (balanced): L ease=1.00 .oads (lb/ft) -6=-7, 1-3=-67	us 0 degree rotation as connections. In edge, spaced at the truss with 3-10d to be attached to we by other means. Is into Girder & 2-10 ent spaced at 1-4-0 then to 3-5-3 to bottom chord. in contact with lumb ands applied to the fi) or back (B).	alls d x oc per. ace 00,									This item hadigitally sign sealed by E on the date Printed cop document a signed and signature m on any elect	as been hed and binger, Joseph, PE indicated here. ies of this ire not considered sealed and the sealed and the sealed and the sust be verified tronic copies.

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Date:

May 14,2025

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a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall	
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing	
is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the	
fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpi	inst.org)
and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)	

Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	F-3	Floor	2	1	Job Reference (optional)	T37314099

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:33:59 ID:bpir80r0Xs437Yu7vs0OAEzHuZj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



3x4 =

1.5x4	II	
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1.5x4 🛚

Scale = 1:21.4												
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.04	Vert(LL)	0.00	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.04	Vert(CT)	0.00	7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 23 lb	FT = 0%

3x4 =

L	U	M	в	Е	R
_	-		_	_	••

Scale

. . . .

TOP CHORD	2x4 SP N	0.1
BOT CHORD	2x4 SP N	o.1
WEBS	2x4 SP N	0.2
BRACING		
TOP CHORD	Structura	I wood sheathing directly applied,
	except er	nd verticals.
BOT CHORD	Rigid ceil	ing directly applied.
REACTIONS	(size)	5= Mechanical, 8= Mechanical
	Max Grav	5=157 (LC 1), 8=157 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-8=-142	/0, 4-5=-142/0, 1-2=-158/0,
	2-3=-158	/0, 3-4=-158/0
BOT CHORD	7-8=0/21,	6-7=0/158, 5-6=0/21
WEBS	1-7=0/15	7, 4-6=0/157, 2-7=-78/0, 3-6=-78/0
NOTEO		

NOTES

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

Plates checked for a plus or minus 0 degree rotation 2) about its center.

Refer to girder(s) for truss to truss connections. 3)

This truss design requires that a minimum of 7/16" 4) structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

5) 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.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	F-4	Floor Girder	1	1	Job Reference (optional)	T37314100

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:00 ID:bpir80r0Xs437Yu7vs0OAEzHuZj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale	_	1.24 1
Scale	_	1.24.1

THDH26-2

1-4-0

Loading TCLL TCDL	(psf) 40.0 10.0	Spacing Plate Grip DOL Lumber DOL	1-4-0 1.00 1.00	CSI TC BC	0.06 0.08	DEFL Vert(LL) Vert(CT)	in 0.00 0.00	(loc) 7 7	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 26 lb	FT = 0%

LUMBER

TOP CHORD	2x4 SP N	o.1
BOT CHORD	2x6 SP N	0.1
WEBS	2x4 SP N	0.2
BRACING		
TOP CHORD	Structural 4-6-13 oc	l wood sheathing directly applied or purlins, except end verticals.
BOT CHORD	Rigid ceili bracing.	ing directly applied or 10-0-0 oc
REACTIONS	(size)	5= Mechanical, 8= Mechanical
	Max Grav	5=428 (LC 1), 8=369 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum

Tension TOP CHORD 1-8=-164/0, 4-5=-164/0, 1-2=-220/0,

2-3=-220/0, 3-4=-220/0 BOT CHORD 7-8=0/40, 6-7=0/220, 5-6=0/22

- WEBS 1-7=0/203, 4-6=0/223, 2-7=-67/0, 3-6=-101/0 NOTES
- Unbalanced floor live loads have been considered for 1) this design.
- Plates checked for a plus or minus 0 degree rotation 2) about its center.

3) Refer to girder(s) for truss to truss connections.

- Recommend 2x6 strongbacks, on edge, spaced at 4) 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.
- 5) Use MiTek THDH26-2 (With 22-16d nails into Girder & 8-16d nails into Truss) or equivalent at 0-7-15 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 242 Ib down at 4-5-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, 1) Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 5-8=-7, 1-4=-67 Concentrated Loads (lb)

Vert: 5=-242 (B), 9=-241 (B)

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May 14,2025





1-4-0

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:00 Page: 1 ID:BuzfCgjhzXCWxpJ?gTrg4EzHI4S-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1.5x4 🛚



Scale = 1:20.7

Loading FCLL FCDL BCLL	(psf) 40.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	1-4-0 1.00 1.00 YES	CSI TC BC WB	0.05 0.05 0.05	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.01 0.00	(loc) 6-7 6-7 5	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 66 lb	FT = 0%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SP No.1 2x4 SP No.1 2x4 SP No.2 Structural wood shea	athing directly applie	 Recommend 10-00-00 oc (0.131" X 3" at their oute LOAD CASE(S) d, 	2x6 strongbacks, of and fastened to ea) nails. Strongbacks r ends or restrained Standard	on edge ch truss s to be by othe	e, spaced at s with 3-10d attached to w er means.	valls					
BOT CHORD REACTIONS	except end verticals. Rigid ceiling directly (size) 5= Mecha Max Grav 5=245 (LC	applied. nical, 8=0-5-14 C 1), 8=245 (LC 1)										
ORCES	(Ib) - Maximum Com	pression/Maximum										
TOP CHORD	1-8=-225/0, 4-5=-225 2-3=-387/0, 3-4=-387	5/0, 1-2=-387/0, 7/0										
BOT CHORD WEBS	7-8=0/52, 6-7=0/387 1-7=0/360, 2-7=-124 3-6=-124/0	, 5-6=0/52 /0, 4-6=0/360,										
NOTES												
 2-ply truss (0.131"x3" Top chords oc. Bottom chi 0.00 cc 	to be connected toget) nails as follows: s connected as follows ords connected as follows	her with 10d :: 2x4 - 1 row at 0-9-(ows: 2x4 - 1 row at)									
2) All loads a	ected as follows: 2x4 - re considered equally	1 row at 0-9-0 oc. applied to all plies,									This item ha digitally sign	s been ed and
CASE(S) s	section. Ply to ply conn o distribute only loads i	noted as (F) or (B),									sealed by El on the date i	binger, Joseph, PE indicated here.
3) Unbalance	ed floor live loads have	been considered for									document a	re not considered
 Plates che 	cked for a plus or minu	us 0 degree rotation									signed and s	sealed and the

3x4 =

about its center. Refer to girder(s) for truss to truss connections. 5)

the bottom chord.

This truss design requires that a minimum of 7/16" 6) structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to signature must be verified on any electronic copies.

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Date

May 14,2025



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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	F-6	Floor	1	1	Job Reference (optional)	137314102







1.5x4 II





1.5x4 u

Page: 1

Scale = 1:20.7														
Loading	(ps	sf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.	.0	Plate Grip DOL	1.00	тс	0.09	Vert(LL)	-0.01	6-7	>999	360	MT20	244/190	
TCDL	10.	.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.01	6-7	>999	240			
BCLL	0.	.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	5	n/a	n/a			
BCDL	5.	.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 33 lb	FT = 0%	
LUMBER TOP CHORD	2x4 SP No.1													

3x4 =

LUMBER	
TOP CHORD	2

BOT CHORD WEBS	2x4 SP N 2x4 SP N	o.1 o.2
BRACING		
TOP CHORD	Structura	I wood sheathing directly applied,
	except er	id verticals.
BOT CHORD	Rigid ceil	ing directly applied.
REACTIONS	(size)	5= Mechanical, 8=0-6-0
	Max Grav	5=245 (LC 1), 8=245 (LC 1)
FORCES	(lb) - Max Tension	imum Compression/Maximum
TOP CHORD	1-8=-225	(0, 4-5=-225/0, 1-2=-387/0,
	2-3=-387	/0, 3-4=-387/0
BOT CHORD	7-8=0/52	6-7=0/387 5-6=0/52

BOT CHORD	7-0=0/52, 0-7=0/307, 5-0=0/52
WEBS	1-7=0/360, 2-7=-124/0, 4-6=0/360,
	3-6=-124/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Plates checked for a plus or minus 0 degree rotation 2) about its center.
- Refer to girder(s) for truss to truss connections. 3)
- This truss design requires that a minimum of 7/16" 4) structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Recommend 2x6 strongbacks, on edge, spaced at 5) 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.

LOAD CASE(S) Standard

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Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

May 14,2025



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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	FG-1	Flat	1	2	Job Reference (optional)	T37314103

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:00 ID:RNpAE6_?oZ?oYse?oV9HiwzHB5O-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f









1-4-0



Scale = 1:22.4

Loading	(psf)	Spacing	2-0-0		CSI	0.07	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (1001)	20.0		1.20			0.27	Vert(LL)	-0.01	5	>999	360	WI120	244/190
RCU	7.0	Lumber DOL Bon Stress Inor	1.20 VES		BC	0.06		-0.01	D 4	>999	240 n/o		
BCDI	10.0	Code	FBC202	3/TPI2014	Matrix-MP	0.10	Wind(LL)	0.00	4 5	>999	240	Weight [.] 41 lb	FT = 20%
		0000		0, 11 12011	induix ini						2.0	rroigini i i io	
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SP No.1 2x4 SP No.1 2x4 SP No.2		3)	Wind: ASCE Vasd=101mp B=45ft; L=24 MWFRS (dire left and right	7-22; Vult=130m bh; TCDL=4.2psf ft; eave=4ft; Cat ectional) and C-0 exposed ; end v	nph (3-sec f; BCDL=6 . II; Exp B; C Zone3 zo ertical left	ond gust) .0psf; h=25ft Enclosed; one; cantileve and right	; er					
TOP CHORD	Structural wood she 3-11-15 oc purlins,	athing directly applie except end verticals	ed or	reactions shown; Lumber DOL=1.60 plate grip									
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	c 4)	Building Designer / Project engineer responsible for									
REACTIONS	(size) 4=0-3-8, 6 Max Horiz 6=33 (LC Max Uplift 4=-165 (L Max Grav 4=1751 (L	6=0-3-8 11) .C 9), 6=-112 (LC 8) .C 1), 6=1177 (LC 1	5) 6)	 verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Forvide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom 									
FORCES	(lb) - Maximum Com Tension	pression/Maximum	7)	* This truss h	as been designe	ed for a live	e load of 20.0	Opsf					
TOP CHORD	1-6=-1116/159, 1-2= 2-3=-1398/150, 3-4=	=-1398/150, =-1689/200		3-06-00 tall b	by 2-00-00 wide v	will fit betw	een the bott	om					
BOT CHORD WEBS	2-3=-1398/150, 3-4=-1689/200chord and any other members.5-6=-45/46, 4-5=-16/188)3-5=-185/1604, 2-5=-1622/203,Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint1-5=-185/16046 and 165 lb uplift at joint 4												
NOTES			9)	Hanger(s) or	other connection	n device(s) shall be						
 (0.131"x3") nails as follows: 				provided suff lb down and	icient to support 83 lb up at 1-3-	concentra 11, and 87	ted load(s) 8 7 lb down an	877 nd 83					

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at

0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Ib up at 1-8-12, and 901 Ib down and 88 Ib up at 3-10-3 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, 1) Plate Increase=1.25 Uniform Loads (lb/ft) Vert: 1-3=-54, 4-6=-20
 - Concentrated Loads (lb)
 - Vert: 3=-901, 2=-877, 7=-877

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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	FG-2	Roof Special Girder	1	1	Job Reference (optional)	T37314104

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:00 ID:bH4CbEDnOEyn9b_t3xESCMzXTht-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:78.8

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

	7, 1). [1.0-2-4,0-1-0],	[5.0-5-4,0-5-0]												
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 7.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 NO FBC202	3/TPI2014	CSI TC BC WB Matrix-MS	0.38 0.74 0.02	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.08 -0.14 0.13 0.08	(loc) 6-8 6-8 3 6-8	l/defl >720 >409 n/a >692	L/d 360 240 n/a 240	PLATES MT20 Weight: 68 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD SOT CHORD WEBS BRACING TOP CHORD WEBS REACTIONS FORCES TOP CHORD WEBS NOTES 1) Wind: ASC	2x4 SP No.1 2x4 SP No.1 2x6 SP No.1 *Excep Structural wood she 5-2-8 oc purlins, exi Rigid ceiling directly bracing. 1 Row at midpt (size) 3= Mecha Max Uplift 3=-179 (L Max Grav 3=564 (LC (lb) - Maximum Com Tension 1-8=-173/79, 1-2=-7. 2-5=-132/69 6-8=-15/38, 5-6=-15. 1-5=-15/60, 4-6=-12 CE 7-22; Vult=130mph	t* 5-1,6-4:2x4 SP No athing directly applie cept end verticals. applied or 10-0-0 oc 2-3 inical, 8= Mechanical C 4), 8=-218 (LC 4) C 1), 8=535 (LC 1) ipression/Maximum 2/23, 3-5=-416/139, /38, 4-7=0/0, 3-4=0/0 6/53 (3-second gust)	7) .2 8) d or 9) 10 11 LC 1)	Provide mec bearing plate 8 and 179 lb Use MiTek J 1-1/2 nails in end to come skewed 0.0 o Fill all nail ho) "NAILED" in per NDS gui) In the LOAD of the truss a DAD CASE(S) Dead + Roo Plate Increa Uniform Lo Vert: 1-2 Concentrative Vert: 9=-	hanical connection capable of withs uplift at joint 3. L24 (With 4-10d r to Truss) or equivi- tot truss) or equivi- truss(es) to ba les where hange- dicates Girder: 3- delines. CASE(S) section re noted as front Standard of Live (balanced) ase=1.25 ads (lb/ft) =-54, 6-8=-20, 3- ed Loads (lb) 247 (B), 10=-493	n (by oth tanding 2 hails into valent at 3 ck face o pring 0.0 - r is in cor 10d (0.14 i, loads al (F) or ba 1: Lumber 7=-20 (B)	ers) of truss 18 lb uplift a Girder & 2-11 3-3-4 from th f bottom cho deg. down. ttact with lurn 8" x 3") toe- oplied to the ck (B). Increase=1.	to It joint Od x le left rrd, nber. nails face 25,						
 Wind: ASZ Vasd=101 B=45ft; L= MWFRS (i) DoL=1.60 Building D verifying a requireme Provide ac This truss chord live * This truss on the bot 3-06-00 ta chord and Refer to gi 	mph; TCDL=4.2psf; Bl r24ft; eave=4ft; Cat. II; directional); Lumber Dr lesigner / Project engin pplied roof live load sh nts specific to the use dequate drainage to pr has been designed for load nonconcurrent wi s has been designed for tom chord in all areas - II by 2-00-00 wide will by 2-00-00 wide will any other members. irder(s) for truss to trus	(OSecond gust) CDL=6.0ps; h=25ft; Exp B; Enclosed; OL=1.60 plate grip neer responsible for iown covers rain load of this truss compon- event water ponding, r a 10.0 psf bottom th any other live load or a live load of 20.0p where a rectangle fit between the botto as connections.	ting ent. is. osf									This item ha digitally sign sealed by El on the date Printed copi document at signed and s signature m on any elect	s been ed and binger, Joseph indicated here es of this re not conside sealed and the ust be verified ronic copies.	h, PE }. e I

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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	FG-3	Roof Special Girder	1	1	Job Reference (optional)	T37314105

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:01 ID:7v655Lq9dbFh9GpU_R7BDuzXTh5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:61.3

Plate Offsets (X_Y): [1:0-2-4 0-1-8] [5:0-4-8 0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	тс	0.24	Vert(LL)	-0.03	6-8	>999	360	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.07	6-8	>846	240			
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.04	3	n/a	n/a			
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.03	6-8	>999	240	Weight: 46 lb	FT = 20%	
LUMBER	R 7) Provide mechanical connection (by others) of truss to												

TOP CHORD 2x4 SP No.1

BOT CHORD	2x4 SP N	0.1
WEBS	2x6 SP N	o.1 *Except* 6-4,5-1:2x4 SP No.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied or
	5-2-8 oc p	ourlins, except end verticals.
BOT CHORD	Rigid ceili	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	3= Mechanical, 8= Mechanical
	Max Horiz	8=155 (LC 7)
	Max Uplift	3=-112 (LC 5), 8=-124 (LC 4)
	Max Grav	3=383 (LC 13), 8=410 (LC 14)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	·
TOP CHORD	1-8=-189/	/121, 1-2=-119/30, 3-5=-294/121,

2-5=-160/97BOT CHORD 6-8=-124/151, 5-6=-124/151, 4-7=0/0, 3-4=0/0WEBS

4-6=-82/29, 1-5=-34/69 NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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.
- 3) Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom 4)
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 5)
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.

- bearing plate capable of withstanding 124 lb uplift at joint
- 8 and 112 lb uplift at joint 3. "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails
- 8) per NDS guidelines
- In the LOAD CASE(S) section, loads applied to the face 9)
- of the truss are noted as front (F) or back (B).
- LOAD CASE(S) Standard
- Dead + Roof Live (balanced): Lumber Increase=1.25, 1) Plate Increase=1.25

Uniform Loads (lb/ft)

- Vert: 1-2=-54, 6-8=-20, 3-7=-20 Concentrated Loads (lb)
- Vert: 9=-35 (F), 10=-35 (F), 11=-177 (F), 12=-177 (F)

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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	FT-1	Attic	1	1	Job Reference (optional)	T37314106

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:01 ID:GsLqBh4onuTWhk_5d5vHTozHGz_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:76.4

FORCES

WEBS

NOTES

1)

2)

3)

4)

5)

TOP CHORD

BOT CHORD

grip DOL=1.60

Plate Offsets (X, Y): [2:0-4-0,0-1-8], [3:0-4-0,0-1-8], [6:0-3-0,0-4-8], [7:0-3-0,0-4-8]

(lb) - Maximum Compression/Maximum

1-7=-327/795, 2-7=-433/677, 3-6=-433/677,

1-8=-726/7, 1-2=-62/26, 2-3=-67/37,

7-8=-5/11, 6-7=-37/67, 5-6=-5/11

3-4=-62/26, 4-5=-726/7

Wind: ASCE 7-22; Vult=130mph (3-second gust)

Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;

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

left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate

Building Designer / Project engineer responsible for

Provide adequate drainage to prevent water ponding.

chord live load nonconcurrent with any other live loads.

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

This truss has been designed for a 10.0 psf bottom

on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom

chord and any other members.

verifying applied roof live load shown covers rain loading

requirements specific to the use of this truss component.

Tension

4-6=-327/795

Loading (p FCLL (roof) 20 FCDL 7 SCLL 0 SCLL 0 SCDL 10	sf) Spacing .0 Plate Grip DOL .0 Lumber DOL .0* Rep Stress Incr .0 Code	2-0-0 1.25 1.25 YES FBC2023/TPI2014	CSI TC BC WB Matrix-AS	0.25 0.41 0.47	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.08 -0.15 0.00 0.03	(loc) 6-7 6-7 5 6-7	l/defl >999 >760 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 125 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD 2x6 SP No.1 30T CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 3RACING TOP CHORD Structural wood except end ver 30T CHORD Rigid ceiling dir NEBS 1 Row at midpt REACTIONS (size) 5= M Max Uplift 5=-5 Max Grav 5=44	d sheathing directly applie ticals. ectly applied. 1-8, 4-5, 2-7, 3-6 lechanical, 8= Mechanica 7 (LC 8), 8=-57 (LC 8) 8 (LC 18), 8=488 (LC 18	 6) Bottom churchord dead 7) Refer to gi 8) Provide mu bearing pla 8 and 57 lt 9) This truss structural v chord and the bottom 10) ATTIC SP, UNINHABI 	ord live load (20.0 d load (5.0 psf) ap rder(s) for truss to cchanical connect the capable of with o uplift at joint 5. design requires th vood sheathing bu 1/2" gypsum shee chord. ACE SHOWN IS I TABLE.	psf) and a pplied only to o truss conr tion (by oth- nstanding 5 nat a minim- e applied di etrock be ap DESIGNED	dditional bott o room. 6-7 ections. ers) of truss i 7 lb uplift at j um of 7/16" rectly to the oplied directly AS	tom to joint top y to						

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	FT-2	Attic	1	1	Job Reference (optional)	T37314107

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:01 ID:tAMgXLTZTX53bZrOQS_U9FzHGxA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:80.9

Plate Offsets (X, Y): [2:0-4-0,0-1-8], [3:0-4-0,0-4-0], [5:0-3-0,0-4-8], [7:0-3-0,0-1-7]

				-	-									
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	0.29	Vert(LL)	-0.09	4-5	>999	360	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25		BC	0.43	Vert(CT)	-0.16	4-5	>706	240			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.52	Horz(CT)	-0.01	8	n/a	n/a			
BCDL	10.0	Code	FBC202	3/TPI2014	Matrix-AS		Wind(LL)	0.02	4-5	>999	240	Weight: 138 lb	FT = 20%	
			5)	* This truss h	has been design	ed for a liv	e load of 20	Onsf						
TOP CHORE) 2x6 SP No 1		0)	on the bottor	n chord in all are	eas where	a rectangle	.0001						
BOT CHORI	2x6 SP No 1			3-06-00 tall b	oy 2-00-00 wide	will fit betw	een the bot	tom						
WEBS	2x4 SP No.2 *Exce	pt* 3-4:2x6 SP No.1		chord and ar	y other member	rs.								
OTHERS	2x6 SP No.1		6)	Bottom chore	d live load (20.0	psf) and a	dditional bot	tom						
BRACING				chord dead I	oad (5.0 psf) ap	plied only t	o room. 4-5							
TOP CHORE	D Structural wood sh	eathing directly applie	ed, 7)	Refer to gird	er(s) for truss to	truss conn	ections.							
	except end vertical	s.	8)	Provide mec	hanical connecti	ion (by othe	ers) of truss	to						
BOT CHORE	D Rigid ceiling directl	y applied.		bearing plate	e capable of with	istanding 5	6 lb uplift at	joint						
WEBS	1 Row at midpt	1-6, 3-7, 2-5, 3-8	0)	6, 3 ID UPIIIT	at joint 4 and 44	ib uplift at	Joint 8.							
REACTIONS	(size) 4= Mech	anical, 6= Mechanica	al, 8= ⁹⁾	etructural wo	od sheathing he	at a minimi a annligd di	rectly to the	top						
	Mechani	cal		chord and 1/	2" avnsum shee	trock he ar	notied direct	lv to						
	Max Uplift 4=-3 (LC	≈ 8), 6=-56 (LC 8), 8=-	-44	the bottom c	hord.			.,						
	(LC 8)	0.40\ 0.400.400.40	、 10 [°]	ATTIC SPAC	CE SHOWN IS D	DESIGNED	AS							
	Max Grav 4=329 (L	C 18), 6=469 (LC 18),	UNINHABIT	ABLE.									
	0=144 (L	U IO)	LC	AD CASE(S)	Standard									
FORCES	(ID) - Maximum Cor	npression/waximum												
TOP CHORE) 1-6=-698/0 1-2=-4	7/20 2-3=-50/30												
	4-7=-97/166 3-7=-	97/166												
BOT CHORE	5-6=-11/12, 4-5=-3	7/50												
WEBS	1-5=-274/682, 2-5=	-417/729, 3-8=-144/1	37											
NOTES														
1) Wind: As	SCE 7-22: Vult=130mp	h (3-second aust)										This item ha	s been	
Vasd=10	1mph; TCDL=4.2psf; E	3CDL=6.0psf; h=25ft;										digitally sign	ed and	
B=45ft; l	=24ft; eave=4ft; Cat. II	; Exp B; Enclosed;										sealed by Fl	oinger Joseph	۱PF
MWFRS	(directional) and C-C 2	Zone3 zone; cantileve	er									on the date	indicated here	.,
left and i	ight exposed ;C-C for I	members and forces	&									Drinted coni	nuicated here.	•
MWFRS	for reactions shown; L	umber DOL=1.60 pla	te											
grip DOL	.=1.60											document a	e not consider	rea
 Z) Building 	Designer / Project eng	ineer responsible for	dina									signed and s	sealed and the	;
requirer	applied root live load s	of this trues compor	ung									signature m	ust be verified	
3) Provide	adequate drainage to n	revent water nonding	10111.									on any elect	ronic copies.	
 This trus 	s has been designed for	or a 10.0 psf bottom	j.									. ,		
chord liv	e load nonconcurrent v	vith any other live load	ds.									Joseph Ebinger PE No.	18947	
		,										MiTek Inc. DBA MiTek U 16023 Swingley Ridge Ro Date:	SA FL Cert 6634 ad, Chesterfield, MO 63017	

May 14,2025



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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	FT-3	Attic	1	1	Job Reference (optional)	T37314108

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed May 14 11:18:56 ID:tSu659hETIEe8BffvWoTMrzHGwv-PNhes1w_wUsjJnfJiLhaglJTvLKTWFNXBcXjbozGcgT Page: 1



Scale = 1:87.7

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

	· · · · · · · · · · · · · · · · · · ·	[0.0 . 0,0 . 0], [0.0												
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 7.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC2023	3/TPI2014	CSI TC BC WB Matrix-MS	0.42 0.46 0.76	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.10 -0.18 -0.03 0.03	(loc) 4-5 4-5 8 4-5	l/defl >999 >670 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 148 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD WEBS REACTIONS FORCES	2x6 SP No.1 2x6 SP No.1 2x4 SP No.2 *Excep 2x6 SP No.1 Structural wood shee 6-0-0 oc purlins, exc Rigid ceiling directly bracing. 1 Row at midpt (lb/size) 6=406/ Mc Machanic Max Uplift 6=-57 (LC Max Grav 6=490 (LC (lb) - Max. Comp./Mi (lb) or less except wi 1-6=-738/0, 4-8=0/25	t* 3-4:2x6 SP No.1 athing directly applie cept end verticals. applied or 10-0-0 oc 1-6, 2-5, 3-8 echanical, 8=364/ al : 8), 8=-47 (LC 8) 2 18), 8=-47 (LC 8) 2 18), 8=453 (LC 18) ax. Ten All forces 2 hen shown. 94, 3-8=0/294	6) 7) d or 8) 9) 10) LO	* This truss h on the bottor 3-06-00 tall b chord and ar Bottom chorr chord dead h Refer to gird Provide mec bearing plate 6 and 47 lb u ATTIC SPAC UNINHABIT/ AD CASE(S)	has been designed in chord in all areas by 2-00-00 wide wil by other members. d live load (20.0 ps bad (5.0 psf) applie er(s) for truss to tru hanical connection e capable of withsta plift at joint 8. E SHOWN IS DES ABLE. Standard	for a liv s where Il fit betw f) and a ed only t uss conr (by oth anding 5 SIGNED	e load of 20.0 a rectangle veen the botto dditional botto o room. 4-5 nections. ers) of truss t 7 lb uplift at j AS	Dpsf om om to oint						
NoTES 1) Unbalance this desigr 2) Wind: ASG Vasd=101 B=45ft, L= MWFRS (left and rig MWFRS f(grip DOL= 3) Building D verifying a requireme 4) Provide ac 5) This truss chord live	ad roof live loads have ad roof live loads have mph; TCDL=4.2psf; B(24ft; eave=4ft; Cat. II; directional) and C-C Zo pht exposed ;C-C for m or reactions shown; Lu 1.60 lesigner / Project engin pplied roof live load sh nts specific to the use dequate drainage to pri- has been designed for load nonconcurrent wi	been considered for (3-second gust) CDL=6.0psf; h=25ft; Exp B; Enclosed; one3 zone; cantilevei embers and forces 8 mber DOL=1.60 plat heer responsible for iown covers rain load of this truss compon- event water ponding, a 10.0 psf bottom th any other live load	ling ent.									This item ha digitally sign sealed by Et on the date i Printed copie document ar signed and s signature mu on any elect	s been ed and binger, Josep ndicated her es of this e not consic sealed and th ust be verifie ronic copies	ph, PE re. lered he d

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Date:

May 14,2025



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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	FT-4	Attic	1	1	Job Reference (optional)	T37314109

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:02 ID:eoyPUKOEZtfGjFf?sQLJFHzHGw_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

10-0-14 0-10-11 9-2-3 +---0-10-11 8-3-8 0-10-11 10-0-14 3x6 II 4x5= 4x5= 3x6 II 1 2 34 Ŧ 8 5 6 7 2x4 II 6x6= 6x6= 2x4 II 10-0-14 0-10-11 9-2-3 +---8-3-8 0-10-11 0-10-11

10-11-10

Scale = 1:83.1

Plate Offsets (X, Y): [2:0-4-0,0-1-8], [3:0-4-0.0-1-8]. [6:0-3-0.0-4-4]. [7:0-3-0.0-4-4]

	,, ,, ,, [<u>_</u>]e : e,e : e];			.]								
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
FCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.09	6-7	>999	360	MT20	244/190
FCDL	7.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.16	6-7	>716	240		
3CLL	0.0*	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.00	5	n/a	n/a		
3CDL	10.0	Code	FBC2023/TPI2014	Matrix-AS		Wind(LL)	0.04	6-7	>999	240	Weight: 137 lb	FT = 20%
LUMBER FOP CHORD 3OT CHORD WEBS BRACING FOP CHORD 3OT CHORD WEBS REACTIONS FORCES TOP CHORD	2x6 SP No.1 2x6 SP No.1 2x4 SP No.2 Structural wood sheat except end verticals. Rigid ceiling directly 1 Row at midpt (size) 5= Mecha Max Uplift 5=-57 (LC Max Grav 5=488 (LC (Ib) - Maximum Com Tension 1-8=-703/4, 1-2=-52/	athing directly applied applied. 1-8, 4-5, 2-7, 3-6 nical, 8= Mechanical 8), 8=-57 (LC 8) 2 18), 8=488 (LC 18) pression/Maximum /22, 2-3=-56/31,	 6) Bottom chor chord dead 7) Refer to girc 8) Provide mec bearing platt 9) This truss de structural we chord and 1, the bottom 0. 10) ATTIC SPA UNINHABIT LOAD CASE(S) 	d live load (20.0 load (5.0 psf) ag ler(s) for truss to thanical connect e capable of with uplift at joint 5. ssign requires th bod sheathing b (2" gypsum shee thord. CE SHOWN IS I ABLE. Standard) psf) and a pplied only t o truss conr tion (by oth hstanding 5 nat a minim e applied di etrock be ap DESIGNED	dditional bott o room. 6-7 tections. ers) of truss 7 lb uplift at um of 7/16" rectly to the oplied directl AS	tom joint top y to					

WEBS

BOT CHORD

 Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

4-6=-309/758

7-8=-4/9, 6-7=-31/56, 5-6=-4/9

1-7=-309/758, 2-7=-420/663, 3-6=-420/663,

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

This item has been digitally signed and sealed by Ebinger, Joseph, 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.

Page: 1

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May 14,2025



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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	FT-5	Attic	1	1	Job Reference (optional)	T37314110

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:02 ID:?lo9ggsiOsakuE8Uf6YSKVzHGvN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

10-0-14 0-10-11 9-2-3 +---0-10-11 8-3-8 0-10-11 10-0-14 3x6 II 4x5= 4x5= 3x6 II 2 3 1 4 FF L T T 9-7-10 Ø 8 5 7 6 7x8= 2x4 II 7x8= 2x4 II 10-0-14 0-10-11 9-2-3 +---8-3-8 0-10-11 0-10-11

Scale = 1:76.4

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 7.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	3-0-0 1.25 1.25 NO FBC2023/TPI2014	CSI TC BC WB Matrix-MS	0.46 0.68 0.78	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.13 -0.24 0.00 0.06	(loc) 6-7 6-7 5 6-7	l/defl >925 >496 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 125 lb	GRIP 244/190 FT = 20%
TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x6 SP No.1 2x6 SP No.1 2x4 SP No.2 2-0-0 oc purlins (6-0 verticals (Switched from shee	-0 max.), except end ated: Spacing > 2-8-0	on the bott 3-06-00 tall chord and a 6) Bottom cho chord dead 7) Refer to gir booring pla	and both in all area by 2-00-00 wide w any other members rd live load (20.0 p load (5.0 psf) app der(s) for truss to t chanical connection	as where vill fit betw s. bsf) and a lied only t russ conr on (by othe	dditional bott dditional bott o room. 6-7 jections. ers) of truss	tom to					
BOT CHORD WEBS REACTIONS FORCES	Rigid ceiling directly bracing. 1 Row at midpt (size) 5= Mecha Max Uplift 5=-85 (LC Max Grav 5=731 (LC (lb) - Maximum Com	applied or 10-0-0 oc 1-8, 4-5, 2-7, 3-6 nical, 8= Mechanical 8), 8=-85 (LC 8) C 18), 8=731 (LC 18) pression/Maximum	8 and 85 lb 8 and 85 lb 9) Graphical p or the orien bottom cho 10) ATTIC SPA UNINHABI	te capable of withs uplift at joint 5. burlin representatio tation of the purlin rd. ICE SHOWN IS DI TABLE.	n does no along the ESIGNED	o to uplift at top and/or AS	size					
TOP CHORD	Tension 1-8=-1110/16, 1-2=- 3-494/41, 4-511	94/41, 2-3=-102/58, 10/16	LUAD CASE(3	Glandard								
BOT CHORD WEBS	7-8=-5/11, 6-7=-58/1 1-7=-543/1271, 2-7= 3-6=-703/1064, 4-6=	02, 5-6=-5/11 -703/1064, -543/1271										
NOTES 1) Wind: AS(Vasd=101 B=45ft; L= MWFRS (left and rig MWFRS f grip DOL= 2) Building D	CE 7-22; Vult=130mph mph; TCDL=4.2psf; B(:24ft; eave=4ft; Cat. II; directional) and C-C Z(pht exposed ;C-C for m or reactions shown; Lu :1.60	(3-second gust) CDL=6.0psf; h=25ft; Exp B; Enclosed; one3 zone; cantileve embers and forces 8 mber DOL=1.60 plat	r k e								This item ha digitally sign sealed by El on the date i Printed copie document au	s been ed and binger, Joseph, P ndicated here. es of this re not considered

verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

Provide adequate drainage to prevent water ponding. 3) 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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May 14,2025



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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	FT-6	Attic	1	1	Job Reference (optional)	T37314111

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:02 ID:yVVBooWyv8FDIOhgFk?uzhzHGuY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:66.3

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

Loading	(psf)	Spacing	3-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.11	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.21	6-7	>552	240		
BCLL	0.0^	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.05	6-7	>999	240	Weight: 107 lb	FI = 20%
LUMBER TOP CHORD BOT CHORD	2x6 SP No.1 2x6 SP No.1 2x4 SP No.2		5) * This truss h on the botton 3-06-00 tall b chord and an	as been designed n chord in all areas y 2-00-00 wide wil	for a liv s where Il fit betw	e load of 20.0 a rectangle veen the botto	Opsf om					
BRACING	2.0-0 oc purlins (6-0		6) Bottom chord chord dead lo	l live load (20.0 ps bad (5.0 psf) applie	f) and a ed only t	dditional botto o room. 6-7	om					
	verticals (Switched from shee	ted: Spacing > 2-8-0	 7) Refer to girde 8) Provide mech 	er(s) for truss to tru hanical connection	uss conr (by oth	ections. ers) of truss t	0					
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	bearing plate 8 and 85 lb u	capable of withsta plift at joint 5.	anding 8	5 lb uplift at j	oint					
WEBS	1 Row at midpt	1-8, 4-5	9) Graphical pu	rlin representation	does no	of depict the s	size					
REACTIONS	(size) 5= Mecha Max Uplift 5=-85 (LC Max Grav 5=731 (LC	nical, 8= Mechanical 8), 8=-85 (LC 8) 2 18), 8=731 (LC 18)	or the orienta bottom choro 10) ATTIC SPAC	ation of the purlin a I. E SHOWN IS DES	signed	AS						
FORCES	(lb) - Maximum Com Tension	pression/Maximum	LOAD CASE(S)	Standard								
TOP CHORD	1-8=-1171/27, 1-2=- ⁻ 3-4=-129/56, 4-5=-1	129/56, 2-3=-140/78, 171/27										
BOT CHORD WEBS	7-8=-7/15, 6-7=-78/1 1-7=-588/1367, 2-7= 3-6=-733/1097, 4-6=	40, 5-6=-7/15 -733/1097, -588/1367										
NOTES												
 Wind: ASC Vasd=101 B=45ft; L= MWFRS (d left and rig MWFRS fo grip DOL= 	CE 7-22; Vult=130mph mph; TCDL=4.2psf; BC 24ft; eave=4ft; Cat. II; directional) and C-C Zc ht exposed ;C-C for m or reactions shown; Lu 1.60	(3-second gust) CDL=6.0psf; h=25ft; Exp B; Enclosed; one3 zone; cantilever embers and forces & mber DOL=1.60 plate	3								This item has digitally signed sealed by Eb on the date in Printed copie	s been ed and inger, Joseph, PE ndicated here. es of this
 Building D verifying a requirement Provide ac 	esigner / Project engin pplied roof live load sh nts specific to the use	eer responsible for own covers rain load of this truss compone	ing nt.								document an signed and s signature mu	e not considered ealed and the ist be verified
4) This truss chord live	has been designed for load nonconcurrent wit	a 10.0 psf bottom	5.								on any electr	onic copies.

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Date:

May 14,2025

Page: 1



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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	FT-7	Attic	1	1	Job Reference (optional)	T37314112

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:02 ID:yJ5TVE7xupg_ND5UlyQrYRzHGtl-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:59.6

Plate Offsets (X, Y): [2:0-4-0,0-1-8], [3:0-4-0,0-1-8], [6:0-3-0,0-4-8], [7:0-3-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	тс	0.39	Vert(LL)	-0.07	6-7	>999	360	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.13	6-7	>920	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.00	5	n/a	n/a			
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS		Wind(LL)	0.03	6-7	>999	240	Weight: 95 lb	FT = 20%	
					411.00.0000	antiona							

LUMBER TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 2x4 SP No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied, except end verticals. BOT CHORD Rigid ceiling directly applied. REACTIONS 5= Mechanical, 8= Mechanical (size) Max Uplift 5=-57 (LC 8), 8=-57 (LC 8) Max Grav 5=488 (LC 18), 8=488 (LC 18) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-8=-792/17, 1-2=-110/47, 2-3=-119/65, 3-4=-110/47, 4-5=-792/17

BOT CHORD 7-8=-9/18, 6-7=-65/119, 5-6=-9/18 WEBS 1-7=-379/903, 2-7=-471/718, 3-6=-471/718, 4-6=-379/903

NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever 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 verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 6-7

Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 8 and 57 lb uplift at joint 5.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.
- LOAD CASE(S) Standard

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Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Dete:

May 14,2025



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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	FT-8	Attic	1	1	Job Reference (optional)	T37314113

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:03 ID:aJKjWgVBsjOpyG_A1heHw3zHGUk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:53.2

Plate Offsets (X, Y): [2:0-4-4,0-1-8], [3:0-3-0,0-4-8], [6:0-4-8,0-1-8], [7:0-3-0,0-4-8]

-													
Loading	(psf) 20.0	Spacing Plate Grip DOI	2-0-0 1 25		CSI	0.25	DEFL	in -0.06	(loc) 6-7	l/defl ∽999	L/d	PLATES	GRIP 244/190
TCDL	7.0	Lumber DOL	1.25		BC	0.33	Vert(CT)	-0.10	6-7	>999	240	10120	244/100
BCLL	0.0*	Rep Stress Incr	YES		WB	0.37	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC202	3/TPI2014	Matrix-AS		Wind(LL)	0.02	6-7	>999	240	Weight: 83 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x6 SP No.1 2x6 SP No.1 2x4 SP No.2 Structural wood sheat except end verticals. Rigid ceiling directly (size) 5= Mecha Max Horiz 8=-145 (L) Max Horiz 5=04 (LC)	athing directly applied applied. nical, 8= Mechanical C 10)	6) 7) 8) d, 9) 10	Bottom chord chord dead la Refer to girdd Provide mec bearing plate 8 and 91 lb u This truss de structural wo chord and 1/ the bottom cl	I live load (20.0 p bad (5.0 psf) appl er(s) for truss to tr hanical connectio capable of withsi plift at joint 5. sign requires that od sheathing be a 2" gypsum sheetr hord. wecked for L/360 c	sf) and a ied only t russ conr n (by oth tanding 9 a minim applied d ock be a deflection	dditional bott o room. 6-7 nections. ers) of truss 0 lb uplift at um of 7/16" irrectly to the oplied directl	tom to joint top y to					
	Max Grav 5=507 (LC	5), 8=-90 (LC 8) (LC 19), 8=512 (LC 19)	LC	DAD CASE(S)	Standard								
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-8=-866/169, 1-2=- 3-4=-73/81, 4-5=-72	170/84, 2-3=-179/102 1/336	2,										
BOT CHORD WEBS	7-8=-174/182, 6-7=- 1-7=-749/1123, 2-7= 3-5=-1120/996	195/203, 5-6=-199/19 -514/965, 3-6=0/687	90 ,										
NOTES													
 Wind: AS0 Vasd=101 B=45ft; L= MWFRS (left and rig exposed;0 reactions DOL=1.60 Del=1.60 	CE 7-22; Vult=130mph mph; TCDL=4.2psf; B(=24ft; eave=4ft; Cat. II; directional) and C-C Zc htt exposed ; end vertii C-C for members and for shown; Lumber DOL=1	(3-second gust) CDL=6.0psf; h=25ft; Exp B; Enclosed; one3 zone; cantilevel; cal left and right orces & MWFRS for .60 plate grip	ŗ									This item ha digitally sigr sealed by E on the date Printed copi	is been ied and binger, Joseph, PE indicated here. es of this

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding. 3) 4) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 5)
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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Page: 1

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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	FT-9	Flat Girder	1	1	Job Reference (optional)	T37314114

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:03 ID:8zJUxdg9IeLbH817tujOswzHGt2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



5-0-7	10-0-14
5-0-7	5-0-7

Scale =	1:42.7
---------	--------

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 7.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 NO FBC2023	3/TPI2014	CSI TC BC WB Matrix-MS	0.35 0.26 0.14	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.02 -0.04 0.00 0.01	(loc) 5-6 5-6 4 5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 60 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SP No.1 2x4 SP No.1 2x4 SP No.2		8) 9) LO	"NAILED" in per NDS gui In the LOAD of the truss a AD CASE(S)	dicates Girder: 3 delines. CASE(S) sectio are noted as fror Standard	9-10d (0.14 on, loads ap nt (F) or ba	8" x 3") toe- oplied to the ck (B).	nails face						
TOP CHORD BOT CHORD	Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing.	eathing directly applie cept end verticals. applied or 10-0-0 oc	dor 1)	Dead + Ro Plate Increa Uniform Lo Vert: 1-3	of Live (balance) ase=1.25 ads (lb/ft) =-54, 4-6=-20	d): Lumber	Increase=1.	.25,						
REACTIONS	(size) 4= Mecha Max Uplift 4=-132 (L Max Grav 4=670 (L	anical, 6= Mechanica .C 4), 6=-118 (LC 4) C 1), 6=574 (LC 1)	I	Concentrat Vert: 4=- 9=-58 (F	ed Loads (lb) 43 (F), 3=-81 (F), 10=-58 (F), 11), 7=-64 (F =-41 (F), 1), 8=-64 (F), 2=-41 (F), 1	3=-35						
FORCES	(lb) - Maximum Com Tension	pression/Maximum		(F), 14=-	35 (F)									
TOP CHORD BOT CHORD	1-6=-499/151, 1-2=- 3-4=-565/181 5-6=-6/26, 4-5=-5/23	525/106, 2-3=-525/1 3	06,											
WEBS	1-5=-121/605, 2-5=-	475/254, 3-5=-123/6	09											

NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 6 and 132 lb uplift at joint 4.

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Page: 1

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a truss system. Before use, the building designer must verify the applicability of design parameters and property 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)

Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	Т-3	Scissor	1	1	Job Reference (optional)	T37314115

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed May 14 11:32:34 ID:wNmBJ_thAqs7iJtnfePbQgyHxcQ-Sl6tXkq4HpwfSUBXd8MPqFBlp5ZVAL5xHth?INzGcTh





Scale = 1:70.3	0-6-0 ├ │ 0-6-0	<u>8-8-0</u> 8-2-0	16-10-0 8-2-0	17-4-0
Plate Offsets (X, Y): [2:0-0-6,0-2-0], [5:0-1-1,0-2-4], [11:0	-2-8,0-2-4], [14:0-0-6,0-2-0]			

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	тс	0.21	Vert(LL)	-0.07	17-18	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.14	17-18	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.12	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS		Wind(LL)	0.04	17-18	>999	240	Weight: 98 lb	FT = 20%
			2) Wind ASC	= 7-22 [.] Vult=130	mph (3-sec	ond aust)						

LUMBER	
TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
REACTIONS	(lb/size) 2=726/0-8-0, 14=714/0-6-0
	Max Horiz 2=-127 (LC 10)
	Max Uplift 2=-122 (LC 12), 14=-128 (LC 12)
FORCES	(lb) - Max. Comp./Max. Ten All forces 250
	(lb) or less except when shown.
TOP CHORD	2-3=-1604/167, 3-4=-1663/185,
	4-5=-1642/185, 5-6=-1187/78, 6-7=-1152/106,
	7-8=-1119/112, 8-9=-1119/102,
	9-10=-1151/85, 10-11=-1189/58,
	11-12=-1672/210, 12-13=-1684/207,
	13-14=-1630/190
BOT CHORD	2-20=-82/1457, 19-20=-72/1475,
	18-19=-86/1477, 17-18=-127/1505,
	16-17=-114/1508, 14-16=-123/1482
WEBS	8-18=-15/1043, 18-24=-488/203,
	24-25=-487/202, 25-26=-489/205,
	11-26=-496/201, 5-23=-465/198,
	22-23=-459/203, 21-22=-457/199,
	18-21=-458/200
NOTES	

 Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-4-15, Zone1 1-4-15 to 8-8-0, Zone2 8-8-0 to 13-1-6, Zone1 13-1-6 to 18-10-0 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
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) All plates are 1.5x4 (||) MT20 unless otherwise
 - indicated.
- 7) Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 2, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 2 and 128 lb uplift at joint 14.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-4	Scissor	1	1	Job Reference (optional)	T37314116

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:07 ID:Mcizj6M7InxKqTp9eDvSa4yHz42-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





	17-4-0
8-8-0	16-10-0
8-2-0	8-2-0
0-6-0	0-6-0

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

				-									
Loading FCLL (roof) FCDL BCLL BCDL	(psf) 20.0 7.0 0.0* 10.0	Spacing 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-AS	0.14 0.44 0.22	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.11 -0.22 0.11 0.04	(loc) 8-11 8-14 6 8	l/defl >999 >935 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 81 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD 3OT CHORD WEBS BRACING TOP CHORD 3OT CHORD REACTIONS	2x4 SP No.1 2x4 SP No.1 2x4 SP No.2 Structural wood she Rigid ceiling directly (size) 2=0-6-0, 6 Max Horiz 2=133 (LC Max Uplift 2=-122 (L Max Grav 2=723 (LC	athing directly applie applied. 5=0-6-0 C 11) C 12), 6=-115 (LC 12 C 1), 6=713 (LC 1)	6) 7) ^{d.} 8) ²⁾ LO	Bearing at jo using ANSI/ designer sho Provide mec bearing plate 2 and 115 lb This truss de structural wo chord and 1/ the bottom c AD CASE(S)	int(s) 2, 6 consider FPI 1 angle to grain build verify capacity hanical connection e capable of withst uplift at joint 6. ssign requires that bod sheathing be a 2" gypsum sheetro hord. Standard	rs paralla of bearia of bearia (by oth anding 1 a minim pplied di ock be a	el to grain val a. Building ng surface. ers) of truss t 22 lb uplift at um of 7/16" rectly to the t oplied directly	io ; joint ; op / to					
FORCES	(lb) - Maximum Com Tension 1-2=0/45, 2-3=-1520	pression/Maximum)/239, 3-4=-1173/108	l,										
BOT CHORD WEBS	4-5=-1173/95, 5-6=- 2-8=-126/1305, 6-8= 4-8=0/977, 5-8=-323	1524/253, 6-7=0/40 =-156/1303 3/227, 3-8=-318/227											
NOTES													
 Unbalance this design Wind: ASC Vasd=1011 B=45ft; L=: MWFRS (c Zone1 1-6- 13-0-15 to exposed; (members a Lumber DC Building Do 	d roof live loads have E 7-22; Vult=130mph mph; TCDL=4.2psf; Bi 24ft; eave=4ft; Cat. II; directional) and C-C Z -0 to 8-8-0, Zone2 8-8 18-8-0 zone; cantileve end vertical left and rig and forces & MWFRS DL=1.60 plate grip DO esigner / Project engin	been considered for (3-second gust) CDL=6.0psf; h=25ft; Exp B; Enclosed; one3 -1-6-0 to 1-6-0, -0 to 13-0-15, Zone1 er left and right ght exposed;C-C for for reactions shown; Ju=1.60 heer responsible for										This item ha digitally sign sealed by El on the date Printed copi document a	s been led and binger, Joseph, indicated here. es of this re not considere

- З 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 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.

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

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May 14,2025



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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-5	Scissor	4	1	Job Reference (optional)	T37314117

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:08 ID:jaVsmqQF6JZcxEh7RmVdH7yHz3z-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



0-6-0			17-4-0
	8-8-0	16-10-0	
	8-2-0	8-2-0	1 1
0-6-0			0-6-0

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

		. , ,,,,	,									-	
Loading TCLL (roof) TCDL	(psf) 20.0 7.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25		CSI TC BC	0.15	DEFL Vert(LL) Vert(CT)	in -0.11 -0.22	(loc) 7-10 7-10	l/defl >999 >925	L/d 360 240	PLATES MT20	GRIP 244/190
BCDL	10.0	Code	FBC202	3/TPI2014	Matrix-AS	0.22	Wind(LL)	0.11	7	>999	11/a 240	Weight: 78 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.1 2x4 SP No.1 2x4 SP No.2 Structural wood shea Rigid ceiling directly (size) 2=0-6-0, 6 Max Horiz 2=129 (LC Max Uplift 2=-125 (L Max Gray 2=726 (LC	athing directly applied applied. =-0-6-0 C 11) C 12), 6=-67 (LC 12) C 1), 6=638 (LC 1)	6) 7) I. 8) LC	Bearing at jc using ANSI/ designer sho Provide mec bearing plate 6 and 125 lb This truss de structural we chord and 1, the bottom c DAD CASE(S)	int(s) 6, 2 conside TPI 1 angle to gra- build verify capacit hanical connectic a capable of withs uplift at joint 2. esign requires tha od sheathing be '2" gypsum sheet hord. Standard	ers parall in formula by of bear on (by oth standing 6 t a minim applied d rock be a	el to grain va a. Building ng surface. ers) of truss 7 lb uplift at um of 7/16" rectly to the oplied directl	to joint top ly to					
FORCES	(lb) - Maximum Com	pression/Maximum											
TOP CHORD BOT CHORD	Tension 1-2=0/45, 2-3=-1529 4-5=-1184/170, 5-6= 2-7=-228/1306, 6-7=	//307, 3-4=-1183/148, :-1548/313 :-208/1329											
WEBS	4-7=-43/991, 5-7=-33	39/231, 3-7=-318/221											
NOTES 1) Unbalanci this desig 2) Wind: ASG Vasd=101 B=45ft; L= MWFRS (Zone1 1-6 13-0-15 tc exposed ; members Lumber D	ed roof live loads have n. CE 7-22; Vult=130mph mph; TCDL=4.2psf; Bf =24ft; eave=4ft; Cat. II; directional) and C-C Zo -0 to 8-8-0, Zone2 8-8 o 17-4-0 zone; cantileve end vertical left and rig and forces & MWFRS OL=1.60 plate grip DO	been considered for (3-second gust) CDL=6.0psf; h=25ft; Exp B; Enclosed; one3 -1-6-0 to 1-6-0, -0 to 13-0-15, Zone1 er left and right ght exposed;C-C for for reactions shown; L=1.60										This item ha digitally sigr sealed by E on the date Printed copi	as been hed and binger, Joseph, PE indicated here. les of this

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.

This truss has been designed for a 10.0 $\ensuremath{\mathsf{psf}}$ bottom 4) chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 5)

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

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May 14,2025



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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-6	Half Hip	1	1	Job Reference (optional)	T37314118

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:08 ID:3Kz2bTdwOxHN3ZjpG8D?rIyHz_Y-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



га





Scale = 1:61.7

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

9-8-15 to 17-2-4 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces &

MWFRS for reactions shown; Lumber DOL=1.60 plate

grip DOL=1.60

Loading TCLL (roof) TCDL BCLL BCDL LUMBER TOP CHORD	(psf) 20.0 7.0 0.0* 10.0 2x4 SP No.1	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC202 3)	:3/TPI2014 Building Des verifying app	CSI TC BC WB Matrix-MS igner / Project eng lied roof live load	0.35 0.54 0.52 gineer re shown c	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) sponsible for overs rain loa	in -0.19 -0.39 0.08 0.05 ading	(loc) 8-9 8-9 8 10-13	l/defl >999 >535 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 105 lb	GRIP 244/190 FT = 20%	
BOT CHORD WEBS BRACING TOP CHORD	2x4 SP No.1 2x4 SP No.2 Structural wood shea 4-9-2 oc purlins, exi Except: 6-0-0 oc bracing: 3-5	athing directly applie cept end verticals.	4) 5) ed or 6)	requirements Provide adeo This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ard	s specific to the us quate drainage to is been designed i ad nonconcurrent has been designed n chord in all area by 2-00-00 wide w by other members	e of this prevent for a 10.0 with any d for a liv s where ill fit betw	truss compo water pondin 0 psf bottom other live loa e load of 20. a rectangle ween the bott	nent. g. ads. Opsf						
BOT CHORD WEBS REACTIONS FORCES	Rigid ceiling directly bracing. 1 Row at midpt (size) 2=0-6-0, 8 Max Horiz 2=226 (LC Max Uplift 2=-124 (LI Max Grav 2=735 (LC (lb) - Maximum Com	applied or 8-9-6 oc 6-8 3=0-6-0 C 12) C 12), 8=-158 (LC 9 C 1), 8=641 (LC 1) pression/Maximum	7) 8)) 9)	Bearing at jo using ANSI/I designer sho Provide mec bearing plate 2 and 158 lb Graphical pu or the orienta	int(s) 2, 8 conside IPI 1 angle to grain build verify capacity hanical connection capable of withst uplift at joint 8. rlin representation ation of the purlin a	rs parall n formula of bearin (by oth anding 1 n does no along the	el to grain va a. Building ng surface. ers) of truss 24 lb uplift a ot depict the s	llue to t joint size						
TOP CHORD	Tension 1-2=0/45, 2-3=-1517 3-5=-219/218, 4-5=0 6-7=-18/0, 7-8=-117/	7/506, 3-10=0/131, 1/0, 5-6=-61/19, /59	LC	bottom chord DAD CASE(S)	l. Standard	5								
BOT CHORD WEBS	2-10=-513/1273, 9-1 8-9=-172/522 3-6=-1153/436, 3-9= 6-8=-751/251	0=-492/1206, 47/143, 6-9=-338/9	942,									This item ha	s been ed and	
NOTES 1) Unbalanc this desig 2) Wind: ASG Vasd=101 B=45ft; L= MWFRS (Zone1 1-6	ed roof live loads have n. CE 7-22; Vult=130mph Imph; TCDL=4.2psf; BC =24ft; eave=4ft; Cat. II; (directional) and C-C Zc >0 to 7-112. Zone3 5-1	been considered for (3-second gust) CDL=6.0psf; h=25ft; Exp B; Enclosed; one3 -1-6-0 to 1-6-0, 6-0 to 9-8-15. Zone4	r ,									sealed by El on the date i Printed copie document al signed and s signature m	pinger, Josep ndicated here so of this e not conside ealed and th ust be verified	∍h, PE e. ered ìe d

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Date:

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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	GAINEY HOME	
24-0602-A1	T-7	Half Hip	1	1	Job Reference (optional)	T37314119

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:08 ID:bPx5yxpydrI6_0xuCVWIUgyHz_I-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:71.3

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

Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.25	CSI TC	0.36	DEFL Vert(LL)	in -0.19	(loc) 8-9	l/defl >999	L/d 360	PLATES MT20	GRIP 244/190
TODE	7.0		1.20	BC	0.55		-0.39	0-9	>524	240		
BOLL	0.0*	Rep Stress Incr	YES	VVB	0.63	Horz(CT)	80.0	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI20	Matrix-M	S	Wind(LL)	0.05	10-13	>999	240	Weight: 112 lb	FI = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.1 2x4 SP No.1 2x4 SP No.2 Structural wood she 4-8-11 oc purlins, e Except: 6-0-0 oc bracing: 3- Rigid ceiling directly	athing directly applie except end verticals. 5 applied or 9-5-7 oc	3) Buildi verify requi 4) Provi 5) This t chord 6) * This on the 3-06- chord	ng Designer / Pro ng applied roof lin ements specific tr de adequate drair russ has been de live load noncon- truss has been de bottom chord in 00 tall by 2-00-00 and any other m	ject engineer re re load shown c o the use of this age to prevent signed for a 10. urrent with any esigned for a liv all areas where wide will fit betw embers.	sponsible for overs rain lo truss compo- water pondir 0 psf bottom other live lo re load of 20. a rectangle veen the bot	r ading onent. ng. ads. .0psf tom					
	bracing.		 Bearing 	ng at joint(s) 2, 8 ANSI/TPL1 angle	considers parall	el to grain va a Building	alue					
WEBS	1 Row at midpt	7-8, 6-8	desia	her should verify	capacity of bear	ing surface.						
REACTIONS	(Size) 2=0-6-0, Max Horiz 2=264 (L' Max Uplift 2=-96 (LC Max Grav 2=730 (L'	8=0-6-0 C 12) C 12), 8=-166 (LC 9) C 1), 8=639 (LC 1)	8) Provie bearie 2 and 9) Grapi	de mechanical co ng plate capable o 166 lb uplift at jo nical purlin repres	nnection (by oth f withstanding 9 nt 8. entation does no	ers) of truss 96 lb uplift at ot depict the	to joint size					
FURCES	(ID) - Maximum Con Tension	pression/iviaximum	or the bottor	orientation of the	purlin along the	e top and/or						
TOP CHORD	1-2=0/45, 2-3=-151- 3-5=-182/166, 4-5= 6-7=-14/0, 7-8=-115	4/413, 3-10=0/128, 0/0, 5-6=-43/37, 5/59	LOAD CA	SE(S) Standard	I							
BOT CHORD	2-10=-440/1273, 9- 8-9=-145/419	10=-414/1201,										
WEBS	3-6=-1109/326, 3-9 6-9=-294/1031, 6-8	=-293/189, =-670/232									This item ha digitally sign	s been ed and
NOTES 1) Unbalance this design 2) Wind: ASC Vasd=101 B=45ft; L= MWFRS ((Zone1 1-6 10-2-15 to exposed ; and forces	ed roof live loads have DE 7-22; Vult=130mph mph; TCDL=4.2psf; B 24ft; eave=4ft; Cat. II; directional) and C-C Z -0 to 7-1-12, Zone3 6 17-2-4 zone; cantilev end vertical left expos & MWFRS for reacting MWFRS for reacting	been considered for (3-second gust) CDL=6.0psf; h=25ft; Exp B; Enclosed; one3 -1-6-0 to 1-6-0, 0-0 to 10-2-15, Zone er left and right sed;C-C for members ons shown; Lumber									sealed by El on the date in Printed copie document and signed and s signature mu on any elect	binger, Joseph, PE ndicated here. Ses of this re not considered sealed and the ust be verified ronic copies.
and forces	& MWFRS for reaction plate grip DOL=1.60	ons shown; Lumber									Joseph Ebinger PE No. 5 MiTek Inc. DBA MiTek U 16023 Swingley Ridge Ro	'8947 SA FL Cert 6634 ad, Chesterfield, MO 630:

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

May 14,2025

Page: 1



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and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

Job	Truss	russ Truss Type		Ply	GAINEY HOME				
24-0602-A1	Т-8	Half Hip Girder	1	2	Job Reference (optional)	137314120			

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:09 ID:9k52hoq?AJrgg?algOXVw7yHxqh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Page: 1

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	L	7-1-12	11-11-4	17-2-0
Scale = 1:71.1	Γ	7-1-12	4-9-8	5-2-12
Plate Offsets (X, Y): [3:0-5-8,0-2-8]				

Lo TC TC BC BC	ading LL (roof) DL LL DL		(psf) 20.0 7.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 NO FBC20	23/TPI2014	CSI TC BC WB Matrix-MS	0.70 0.43 0.81	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.08 -0.14 0.03 0.06	(loc) 10-12 10-12 8 10-12	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES M18AHS MT20 Weight: 284 lb	GRIP 186/179 244/190 FT = 20%
LU TO BC WE BR TO BC WE RE FO TO BC WE RE 1)	MBER P CHORD T CHORD BS ACING P CHORD T CHORD BS ACTIONS RCES P CHORD T CHORD T CHORD T CHORD BS 2-ply truss (0.131"x3" Top chord staggered Bottom ch- staggered Bottom ch- Stagg	2x4 SP No.1 2x6 SP No.1 2x4 SP No.2 Structural wo 4-11-7 oc pui Except: 6-0-0 oc brac Rigid ceiling of bracing. 1 Row at mid (size) 2= Max Horiz 2= Max Horiz 2= Max Uplift 2= Max Grav 2= (lb) - Maximu Tension 1-2=0/45, 2-3 3-5=-176/121 6-7=-108/96, 2-10=-1028/5 8-9=-380/160 3-6=-2087/38 6-9=-620/376 to be connected as at 0-9-0 oc. ords connected as at 0-9-0 oc. ords connected as follow re considered as follow re considered as follow.	and sheat rlins, e: sing: 3-5 directly pt 0-6-0, & 360 (LC -614 (L 3678 (L m Com 36361 , 4-5=0 7-8=-1 5382, 9- 9 30, 3-9= 54, 6-8= ed toget vs: follows d as follows t as fo	athing directly applied xcept end verticals. 5 applied or 10-0-0 oc 7-8, 6-8 3=0-4-0 2 25) C 8), 8=-580 (LC 5) C 13), 8=2902 (LC 1 pression/Maximum /1011, 3-10=-788/52 /0, 5-6=-77/76, 16/60 10=-1028/5349, -5145/950, -3133/622 ther with 10d s: 2x4 - 2 rows 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO/ lections have been noted as (F) or (B),	3 4 6 7 8 3) 9 57, 1 1 1 1 1 1 1 1	 Unbalanced this design. Wind: ASCE Vasd=101mp B=45ft; L=24 MWFRS (dir end vertical I plate grip DC) Building Dess verifying app requirements Provide aded All plates are This truss ha chord live load * This truss ha on the bottor 3-06-00 tall the chord and ar Provide mecc bearing plate 2 and 580 lb Use MiTek T 8-16d nails ii end to conne Fill all nail hot OAD CASE(S) Dead + Roo Plate Increat Uniform Load Vert: 1-1 Concentratt Vert: 10= 	roof live loads hav 7-22; Vult=130mp bh; TCDL=4.2psf; lft; eave=4ft; Cat. I ectional); cantileve eft and right exposi- lied roof live load is specific to the us quate drainage to p MT20 plates unle is been designed f ad nonconcurrent to has been designed n chord in all area by 2-00-00 wide winy other members, hanical connection e capable of withst uplift at joint 8. HDH26-2 (With 22 hoto Truss) or equiv for truss(es) to from bles where hanger Standard of Live (balanced): ase=1.25 ads (lb/ft) 3=-54, 3-13=-14, 4 ed Loads (lb) :-4476 (F)	Pe been of the second s	considered for considered for .0psf; h=25ft ; Enclosed; d right expos beber DOL=1.6 sponsible for overs rain loa truss comport water ponding wise indicate 0 psf bottom other live loa e load of 20.1 a rectangle veen the bott DL = 10.0psf int lo uplift al ils into Girde 7-1-9 from th f bottom chor attact with lum Increase=1. 5-7=-54, 2-8:	or ; ed; 50 ading nent. g. ed. ds. 0psf ds. 0psf to t joint r & ne left rd. uber. 25, =-20				This item ha digitally sign sealed by El on the date i Printed copie document an signed and s signature mu on any elect	s been ed and binger, Joseph, PE ndicated here. es of this re not considered sealed and the ust be verified ronic copies.
														May	14,2025

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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	Т-9	Roof Special	2	1	Job Reference (optional)	T37314121

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:09 ID:siqSqHCitH3?4GG1fTRjxJyHyoA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:76.7

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 7.0 0.0* 10.0	Spacing 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-AS	0.27 0.33 0.08	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.07 -0.15 0.01 -0.01	(loc) 16-19 16-19 10 16-19	l/defl >999 >582 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 93 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.1 2x4 SP No.1 2x4 SP No.2 Structural wood shee Rigid ceiling directly (size) 2=0-6-0,8 16=0-3-8 Max Horiz 2=-136 (LI Max Uplift 2=-159 (LI 10=-3 (LC Max Grav 2=352 (LC) 10=377 (L (lb) - Maximum Com	athing directly applie applied. I=0-6-0, 10=0-3-8, C 10) C 12), 8=-145 (LC 12 12) C 32), 8=326 (LC 1), C 1), 16=466 (LC 17 pression/Maximum	3) 4) d. 5) 6) 2), 7)	verifying app requirements This truss ha chord live los * This truss ha chord live los * This truss h chord and ar Provide mec bearing plate 2, 3 lb uplift : This truss de structural wo chord and 1'	Idea to file load a specific to the us is been designed f ad nonconcurrent v has been designed in chord in all areas by 2-00-00 wide wi by other members. hanical connectior e capable of withsta to joint 10 and 145 usign requires that od sheathing be a 2" gypsum sheetro hord	shown c e of this or a 10.0 with any for a liv s where Il fit betw a (by oth anding 1 Ib uplift a minim pplied di ock be ap	portable to povers rain loa truss compoi) psf bottom other live loa e load of 20.1 e load of 20	ading nent. ads. Opsf om to t joint top y to					
TOP CHORD BOT CHORD	 (lb) - Maximum Compression/Maximum Tension HORD 1-2=0/45, 2-3=-251/208, 3-4=-141/198, 4-5=-130/95, 5-6=-124/83, 6-7=-123/193, 7-8=-209/196, 8-9=0/45 HORD 2-16=-78/179, 15-16=0/0, 13-14=-6/3, 12-12-27(8-0, 0, 01-0), 0, 20, 50/452 			OAD CASE(S)	Standard								
WEBS NOTES 1) Unbalanc this desig 2) Wind: AS Vasd=101	14-16=-271/4, 4-14= 6-12=-164/102, 5-13 7-10=-184/72, 3-16= ed roof live loads have n. CE 7-22; Vult=130mph Imph; TCDL=4.2psf; BC	-256/15, 10-12=-214 =-62/67, 4-13=-37/11 -221/97 been considered for (3-second gust) CDL=6.0psf; h=25ft;	l/51, 80,									This item ha digitally sign sealed by El on the date Printed copi	is been ied and binger, Joseph, Pl indicated here. es of this

B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-10-0, Zone2 8-10-0 to 13-0-15, Zone1 13-0-15 to 19-2-0 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

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May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-10	Roof Special	2	1	Job Reference (optional)	T37314122

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:09



0-2-0

Scale = 1:57.8

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 7.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC2023	3/TPI2014	CSI TC BC WB Matrix-AS	0.16 0.29 0.43	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.08 -0.16 0.13 0.05	(loc) 9 7-8 6 9	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 101 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD WEBS	2x4 SP No.1 2x4 SP No.1 2x4 SP No.2 Structural wood she Rigid ceiling directly (size) 1= Mecha Max Horiz 1=-116 (L Max Uplift 1=-70 (LC Max Grav 1=656 (LC (Ib) - Maximum Com Tension 1-2=-984/198, 2-3=- 3-4=-2138/315, 4-5= 1-11=-102/793, 10-1 7-8=-13/1014, 6-7=- 8-10=0/68, 3-8=-81/ 4-8=-177/1886, 4-7= 2-8=0/992, 8-11=-14	athing directly applied applied. nical, 6= Mechanical C 10) : 12), 6=-70 (LC 12) C 1), 6=655 (LC 1) pression/Maximum 2187/258, -959/296, 5-6=-946/ 1=0/15, 9-10=0/0, 87/753 110, 5-7=-257/186, -273/96, 2-11=-661/ :1/1078	5) d. 7) 8) LO 189	* This truss h on the botton 3-06-00 tall b chord and ar Refer to girdd Provide mecl bearing plate 1 and 70 lb u This truss de structural wo chord and 1// the bottom cl	as been designed in chord in all areas y 2-00-00 wide wil y other members. er(s) for truss to tru- nanical connection capable of withsta plift at joint 6. sign requires that a od sheathing be ap 2" gypsum sheetro hord. Standard	for a liv s where I fit betv uss conr (by oth anding 7 a minim oplied d ck be a	e load of 20.0 a rectangle veen the botto nections. ers) of truss t '0 lb uplift at j um of 7/16" irectly to the t oplied directly	Opsf om oint op r to					
NOTES 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; 5										s been ed and binger, Joseph,			

- MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 8-10-0, Zone2 8-10-0 to 12-11-4, Zone1 12-11-4 to 17-8-0 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.

ΡE 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.

Page: 1

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

May 14,2025



🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. WARNING - verify design parameters and READ NOTES ON THIS AND INCLOSED INTERNETING TO THE REFERENCE FOR UNITY TO THE INSTANCE OF THE ADDRESS OF THE ADDRESS
Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-11	Common	1	1	Job Reference (optional)	T37314123

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:09 ID:lsqOBHViUI3CvU0GNHyVgHyHyuF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



	8-10-0	17-8-0	
	8-10-0	8-10-0	
Scale = 1:51			
Plate Offsets (X, Y): [1:0-5-0,0-0-6], [5:0-5-0,0-0-6]			

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	тс	0.25	Vert(LL)	-0.09	6-9	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.18	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS		Wind(LL)	0.03	6-12	>999	240	Weight: 82 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SP No	o.1
BOT CHORD	2x4 SP No	o.1
WEBS	2x4 SP No	o.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied.
BOT CHORD	Rigid ceili	ng directly applied.
REACTIONS	(size)	1= Mechanical, 5= Mechanical
	Max Horiz	1=-116 (LC 10)
	Max Uplift	1=-71 (LC 12), 5=-71 (LC 12)
	Max Grav	1=654 (LC 1), 5=654 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-902/214, 2-3=-699/183, 3-4=-699/183, 4-5=-902/214

3-6=-70/509, 4-6=-265/160, 2-6=-265/160

BOT CHORD 1-6=-118/730, 5-6=-113/730

WEBS

- NOTES
- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) 2) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 8-10-0, Zone2 8-10-0 to 13-2-2, Zone1 13-2-2 to 17-8-0 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 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.

Refer to girder(s) for truss to truss connections 6)

- Provide mechanical connection (by others) of truss to 7) bearing plate capable of withstanding 71 lb uplift at joint 1 and 71 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" 8) structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Ebinger, Joseph, 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.

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-12	Common Supported Gable	1	1	Job Reference (optional)	T37314124

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:10 ID:2_LvmPbbPpaRMVjTnnC3uNyHz?t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

12-4-0

Page: 1



Scale = 1:44.8

Plate Offsets (X, Y): [2:0-1-12,0-1-15], [12:0-1-12,0-1-15]

				-										
Loading TCLL (roof) TCDL BCLL BCDL		(psf) 20.0 7.0 0.0* 10.0	Spacing 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-AS	0.13 0.04 0.02	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 24	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 72 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	RD 2x4 SP No.1 RD 2x4 SP No.1 2x4 SP No.2 RD Structural wood sheathing directly applied. RD Structural wood sheathing directly applied. NS (size) 2=12-4-0, 12=12-4-0, 14=12-4-0, 15=12-4-0, 15=12-4-0, 17=12-4-0 18=12-4-0, 19=12-4-0, 20=12-4-0 Max Horiz 2=-94 (LC 10) Max Uplift 2=-84 (LC 12), 12=-84 (LC 12), 15=-45 (LC 12), 16=-17 (LC 12), 18=-17 (LC 12), 19=-45 (LC 12), 14=109 (LC 18), 15=100 (LC 18), 16=102 (LC 24), 17=87 (LC 17), 18=104 (LC 17), 19=100 (LC 23), 20=106 (LC 17) (lb) - Maximum Compression/Maximum Tension RD 1-2=0/45, 2-4=-75/60, 4-5=-58/48,				 Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. All plates are 1.5x4 () MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 									
TOP CHORD	(lb) - Maximum Compression/Maximum Tension 1-2=0/45, 2-4=-75/60, 4-5=-58/48, 5-6=-50/95, 6-7=-70/146, 7-8=-70/146, 8-9=-46/96, 9-10=-31/30, 10-12=-70/36, 12-13=0/45 2-20=-47/131, 19-20=-47/131, 18-19=-47/131, 17-18=-47/131,				 * This truss I on the bottor 3-06-00 tall I chord and ar) Provide mec bearing plate 2, 84 lb uplifi 	has been designe m chord in all area by 2-00-00 wide w ny other members chanical connectic e capable of withs t at joint 12, 17 lb	to for a liv as where vill fit betw s. on (by oth standing 8 uplift at jo	e load of 20.0 a rectangle veen the botto ers) of truss t 4 lb uplift at ju pint 18, 45 lb	opsf om oint uplift				This item ha digitally sigr sealed by E	is been ied and binger, Joseph, PE
WEBS NOTES 1) Unbalance	18-19=-4/131, 17-18=-4/131, 16-17=-47/131, 15-16=-47/131, 14-15=-47/131, 12-14=-47/131 7-17=-86/16, 6-18=-77/80, 5-19=-74/107, 4-20=-84/79, 8-16=-75/80, 9-15=-75/108, 10-14=-83/78 moded roof live loads have been considered for ign.				at joint 19, 17 lb uplift at joint 16, 45 lb uplift at joint 15, 84 lb uplift at joint 2 and 84 lb uplift at joint 12.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.11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.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.								Indicated here. es of this re not considered sealed and the ust be verified cronic copies.	
this desigr	۱.												Joseph Ebinger PE No.	98947 ISA FL Cert 6634

16023 Swingley Ridge Road, Chesterfield, MO 63017 Date:

May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-14	Common	3	1	Job Reference (optional)	T37314125

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:10 ID:2_LvmPbbPpaRMVjTnnC3uNyHz?t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:47.5				6-2-0 6-2-0				1					
	(psf)	Spacing	2-0-0		CSI	0.22	DEFL	in	(loc)	l/defl	L/d	PLATES	-

Loading TCLL (roof) TCDL	(psf) 20.0 7.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI TC BC	0.23 0.26	DEFL Vert(LL) Vert(CT)	in -0.03 -0.06	(loc) 6-12 6-12	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 244/190
BCLL	0.0* 10.0	Rep Stress Incr	YES FBC2023/TPI2014	WB Matrix-AS	0.06	Horz(CT)	0.00	4 6-12	n/a ∖qqq	n/a 240	Weight: 52 lb	FT - 20%
LUMBER 6) Provide mechanical connection (by others) of truss to TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.2 BRACING 7) This truss design requires that a minimum of 7/16" TOP CHORD Structural wood sheathing directly applied. BOT CHORD Reactions BOT CHORD Structural wood sheathing directly applied. BOT CHORD Structural wood sheathing directly applied. BOT CHORD Structural wood sheathing directly applied. REACTIONS (size) 2=0-6-0, 4=0-6-0 Max Horiz 2=-101 (LC 10) Max Grav 2=-377 (LC 1), 4=-537 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension												
FORCES	(lb) - Maximum Com	pression/Maximum										
TOP CHORD	1-2=0/45, 2-3=-540/ ⁻	163, 3-4=-540/163,										
BOT CHORD WEBS	4-5=0/45 2-6=0/384, 4-6=0/38 3-6=0/277	4										
NOTES 1) Unbalance	d roof live loads have	been considered for										
this design. Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-2-0, Zone2 6-2-0 to 10-4-15, Zone1 10-4-15 to 13-10-0 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 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.

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. digitally signed and sealed by Ebinger, Joseph, 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.

Page: 1

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Date:

May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-15	Common Girder	1	2	Job Reference (optional)	T37314126

Scale

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:10 ID:10C_tYWSQ6wYDuuodN4yoeyHvZC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Page: 1



	4-3-15	8-0-1	12-4-0
	4-3-15	3-8-1	4-3-15
= 1:43.5			

Plate Offsets (X, Y): [2:0-2-8,0-1-4], [4:0-4-10,0-0-12], [5:0-2-14,0-1-4]

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	0.33	Vert(LL)	-0.06	4-5	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25		BC	0.78	Vert(CT)	-0.11	4-5	>999	240		
BCLL	0.0	 Rep Stress Incr 	NO		WB	0.35	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code	FBC202	3/TPI2014	Matrix-MS		Wind(LL)	0.04	4-5	>999	240	Weight: 128 lb	FT = 20%
			4)	Wind ASCE	7-22: Vult=130m	nh (3-sec	cond aust)						
TOP CHORD	2x4 SP No 1		•,	Vasd=101m	oh: TCDL=4.2psf:	BCDL=6	.0psf: h=25f	t:					
BOT CHORD	2x6 SP No.1			B=45ft; L=24	ft; eave=4ft; Cat.	II; Exp B	; Enclosed;	,					
WEBS	2x4 SP No.2		MWFRS (directional); cantilever left and right exposed ;										
BRACING				end vertical I	eft and right expo	sed; Lum	nber DOL=1.	60					
TOP CHORD	Structural wood sl	heathing directly applie	ed or	plate grip DC	DL=1.60								
	5-10-2 oc purlins.		5)	Building Des	igner / Project en	gineer re	sponsible for	r "					
BOT CHORD	Rigid ceiling direc	tly applied or 10-0-0 o	с	verifying app	lied roof live load	Shown C	overs rain lo	ading					
	bracing.		6)	This trues ha	s specific to the us	for a 10 (Truss compo	ment.					
REACTIONS	(size) 1=0-6-0), 3=0-6-0	0)	chord live los	ad nonconcurrent	with any	other live los	ade					
	Max Horiz 1=81 (L	.C 7)	7)	* This truss h	has been designed	d for a liv	e load of 20.	.0psf					
Max Uplift 1=-414 (LC 8), 3=-313 (LC 8)				on the bottor	n chord in all area	as where	a rectangle						
	Max Grav 1=3111	(LC 1), 3=2881 (LC 1	4)	3-06-00 tall b	y 2-00-00 wide w	vill fit betw	veen the bott	tom					
FORCES	(lb) - Maximum Co	ompression/Maximum		chord and ar	ny other members								
	Tension	0 5407/000	8)	Provide mec	hanical connectio	n (by oth	ers) of truss	to					
TOP CHORD	1-2=-4674/649, 2-	3=-5127/662		bearing plate	e capable of withs	tanding 4	14 lb uplift a	at joint					
BOICHORD	1-5=-463/3877, 4-272/4222	·5=-322/2827,	0)	1 and 313 lb	uplift at joint 3.	oilo into	Cirdor 9 2 1	04 v					
WEBS	2-5=-327/2483 2-	4=-349/3292	9)	1-1/2 nails in	to Truss) or equiv	alent sna	Giluel & 2-1						
NOTES	2 0- 02172 100, 2	1= 010/0202		max. starting	at 1-0-12 from th	e left end	d to 5-0-12 to	5 00					
1) 2-ply trues	s to be connected to	aether with 10d		connect trus	s(es) to back face	of bottor	n chord.						
(0.131"x3	") nails as follows:	genier with rou	10) Use MiTek T	HDH26-2 (With 2	2-16d na	ils into Girde	er &					
Top chore	ds connected as follo	ws: 2x4 - 1 row at 0-9	-0	4-16d nails i	nto Truss) or equiv	valent at	7-1-9 from th	he left				Th:	
oc.				end to conne	ect truss(es) to ba	ck face o	f bottom cho	ord.				I his item ha	s been
Bottom ch	nords connected as f	ollows: 2x6 - 3 rows										digitally sign	ed and
staggered	at 0-5-0 oc.		11) Fill all nail ho	bles where hanger	r is in cor	tact with lun	nber.				sealed by El	binger, Joseph, PE
Web conr	nected as follows: 2x	4 - 1 row at 0-9-0 oc.	12		dicates Girder: 3-1	100 (0.14	8" x 3") toe-	-nalis				on the date i	indicated here.
All loads a	are considered equal	lly applied to all plies,			Ctandard							Printed copie	es of this
except if r	noted as front (F) or i		LUAD CASE(3) Statutation								re not considered		
Drovided 1	to distribute only logo	1)	Plate Increase=1.25								signed and sealed and the		
unless otherwise indicated.					Uniform Loads (lb/ft)								
 Unbalanc 	ed roof live loads have	r	Vert: 1-2	=-54, 2-3=-54, 1-3	3=-20						signature mi	ust be vermed	
this design.				Concentrat	ed Loads (lb)							on any elect	ronic copies.
0				Vert: 10=	-635 (B), 11=-635	5 (B), 12=	=-634 (B),						
				13=-276	1 (B), 14=-159 (B)), 15=-15	9 (B)					Joseph Ebinger PE No. 9 MiTek Inc. DBA MiTek I	18947 ISA FL Cert 6634

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Date:

May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-16	Piggyback Base Girder	1	2	Job Reference (optional)	T37314127

Scale = 1:89.4



Page: 1



	[2:0-2-8,0-1-13], [8:0-2-8,0-1-13], [12:0-1-12,0-1-8], [14:0-6-4,0-0-12], [15:0-6-7,0-1-7], [17:0-2-8,0-3-8], [19:0-1-8,0-1-8], [20:0-5-4,0-4-4], [21:0-2-0,0-2-0],
Plate Offsets (X, Y):	[24:0-2-8,0-1-8], [27:0-3-9,0-2-0]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 7.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 NO FBC2023	3/TPI2014	CSI TC BC WB Matrix-MS	0.28 0.47 0.75	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.09 -0.16 0.03 0.07	(loc) 17-19 17-19 15 17-19	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 560 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS JOINTS	2x4 SP No.1 2x6 SP No.1 2x4 SP No.2 2x4 SP No.2 Structural wood she 5-8-6 oc purlins, ex 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt 1 Brace at Jt(s): 22,	athing directly applie cept end verticals, ar -0 max.): 2-8. applied or 10-0-0 oc 1-21	WE nd or nd	ES	14-16=-155/1067, 17-28=-323/2294, 19-27=-2109/410, 12-39=-2032/361, 5-24=-20/132, 21- 22-30=-4180/701, 19-26=-403/2730, 2-31=-691/4136, 2 20-23=-686/4268, 25-34=-1479/241, 22-29=-97/16, 23- 24-32=-248/32, 2 25-33=-266/34, 25 26-35=-370/49, 20	14-17=- 12-28=- 27-39=- 20-24=- 20-24=- 20-25=- 8-34=-1 20-25=- 8-34=-1 29=-97/1 4-33=-260 5-35=-371 5-35=-371	1212/283, 229/2089, 2197/381, 37/81, 2/701, 2051/681, 70/2458, 85/4234, 1599/259, 354/233, 6, 23-32=-24{ 6/34, 0/49, 7/40	3/32,	4) Wi Va B= MN Lu 5) Tri on se or 6) Bu ve rec 7) Pri	ind: ASCE isd=101m :45ft; L=2 WFRS (di mber DO uss desig ly. For st e Standal consult q illding De rifying ap quiremen ovide ade plates ar	T-22; ph; TC 4ft; eav rection L=1.60 ned for uds ex rd Indu ualifiec signer . plied ro s spec equate e 1 5x	Vult=130mph (3- DL=4.2psf; BCD ve=4ft; Cat. II; Ex al); cantilever left plate grip DOL= vind loads in the posed to wind (no stry Gable End D d building designe / Project enginee bof live load show ific to the use of the drainage to preve	second gust) L=6.0psf; h=25ft; p B; Enclosed; and right exposed ; 1.60 e plane of the truss ormal to the face), retails as applicable, ar as per ANSI/TPI 1. r responsible for n covers rain loading his truss component. ent water ponding.	
REACTIONS	23, 24, 25, 26, 27 (size) 15= Mech Max Horiz 21=-246 (Max Uplift 15=-441 (Max Grav 15=3151	anical, 21= Mechani LC 8) LC 8), 21=-843 (LC (LC 14), 21=5059 (L	ical 8) C 14)		36-37=-317/40, 27 28-38=-6/65, 29-3 4-32=-85/30, 6-33 34-35=-58/341, 9- 11-27=-268/72, 38	7-37=-310 0=-5/35, =-319/62 36=-13/1 3-39=-29/	16/39, 27-38=-6/61, 5, 3-31=-15/114, 52, 7-34=-49/211, 1/123, 10-37=-45/26, 9/246		inc 9) Ga 10) Th ch 11) * T	indicated. Gable studs spaced at 1-4-0 oc. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.				
FORCES	(lb) - Maximum Com Tension	pression/Maximum	NO 1)	TES 2-plv truss t	o be connected to	bether wi	th 10d		on 3-(the botto 06-00 tall	m choi by 2-0	rd in all areas who 0-00 wide will fit b	ere a rectangle between the bottom	
TOP CHORD BOT CHORD	8-9=-2566/446, 9-10 10-11=-2677/430, 1 12-14=-4436/647, 1- 2-3=-1758/328, 3-4= 4-5=-1758/328, 5-6= 6-7=-1749/327, 7-8= 1-21=-101/37, 1-2=- 20-21=-68/829, 19-2 17-19=-397/3649, 1(15-16=-629/4661)=-2666/449, 1-12=-2568/383, 4-15=-5577/816, 1758/328, 1749/327, 1749/327, 72/30 10=-214/2488, 6-17=-626/4641,	2)	(0.131*x3*) Top chords oc. Bottom cho staggered a Web conne All loads are except if no CASE(S) se provided to unless othe	nails as follows: connected as follows: connected as follo rds connected as follows: cted as follows: 2x e considered equal ted as front (F) or I ection. Ply to ply cc distribute only load rwise indicated.	ws: 2x4 - ollows: 2: 4 - 1 row Ily applied back (B) to onnection ds noted a	• 1 row at 0-9-1 x6 - 2 rows at 0-9-0 oc. d to all plies, face in the LO s have been as (F) or (B),	0 AD	ch	ord and a	ný oth	er members, with This item ha digitally sign sealed by Et on the date i Printed copie document ar signed and s signature mu	BCDL = 10.0psf. ed and binger, Joseph, PE ndicated here. es of this re not considered sealed and the ust be verified	
			3)	Unbalanced this design.	l roof live loads ha	ve been o	considered for					on any elect	ronic copies.	

this design.

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Date

May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-16	Piggyback Base Girder	1	2	Job Reference (optional)	137314127

12) Refer to girder(s) for truss to truss connections.

- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 441 lb uplift at joint 15 and 843 lb uplift at joint 21.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent at 4-10-2 from the left end to connect truss(es) to front face of bottom chord.
- 16) Use MiTek JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 6-11-15 oc max. starting at 0-7-6 from the left end to 17-7-5 to connect truss(es) to back face of bottom chord.
- 17) Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-11-15 oc max. starting at 8-7-6 from the left end to 11-7-5 to connect truss(es) to back face of bottom chord.
- 18) Fill all nail holes where hanger is in contact with lumber. 19) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, 1) Plate Increase=1.25
 - Uniform Loads (lb/ft) Vert: 8-15=-54, 2-8=-54, 15-21=-20, 1-2=-54 Concentrated Loads (lb)
 - Vert: 18=-577 (B), 20=-1509 (F=-1123, B=-386), 42=-390 (B), 44=-242 (F), 45=-371 (B), 46=-242 (F), 47=-385 (B), 48=-577 (B), 49=-385 (B), 50=-385 (B), 51=-554 (B)

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:10 ID:dOeRntWRe7?xxrXEiILNIsyHy9I-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

This item has been digitally signed and sealed by Ebinger, Joseph, 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.

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

May 14,2025



🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. WARNING - verify design parameters and READ NOTES ON THIS AND INCLOSED INTERNETING TO THE REFERENCE FOR UNITY TO THE INSTANCE OF THE ADDRESS OF THE ADDRESS

Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-17	Piggyback Base Girder	1	2	Job Reference (optional)	T37314128

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:11 ID:OMOriEzwfotuVoeS7fOIITzHEEp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:96.5

Plate Offsets	(X, Y): [1:0-5-0,0-0-2],	[1:0-0-4,Edge], [2:0-	-1-12,0-1	8], [3:0-1-12,0-	·1-8], [4:0-2-0,0-2	2-4], [6:0-2	-8,0-1-13], [7	/:0-2-4,0	-3-0], [8	:0-1-12,0)-1-8],	16:0-5-8,0-2-12],	[17:0-3-0,0-1-12]
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 7.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 NO FBC20	23/TPI2014	CSI TC BC WB Matrix-MS	0.16 0.39 0.63	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.07 -0.13 0.04 0.06	(loc) 11-12 11-12 9 11-12	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 565 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD	2x4 SP No.1 2x6 SP No.1 *Excep 2x4 SP No.2 Left: 2x4 SP No.2 Structural wood she 6-0-0 oc purlins, exc 2-0-0 oc purlins (6-0 Rigid ceiling directly	ot* 1-17:2x4 SP No.1 athing directly applie sept -0 max.): 4-6. applied or 6-0-0 oc	1 ed or 2	 2-ply truss tr (0.131"x3") () Top chords oc. Bottom chor 0-8-0 oc, 2x; Web connection () All loads are except if not CASE(S) se provided to () 	b be connected to nails as follows: connected as foll ds connected as 6 - 2 rows stagge ted as follows: 2 considered equi- ed as front (F) or ction. Ply to ply co distribute only log	ogether wi ows: 2x4 - follows: 2 ered at 0-9 x4 - 1 row ally applie- back (B) connection ads noted	th 10d - 1 row at 0-S x4 - 1 row at -0 oc. at 0-9-0 oc. d to all plies, face in the Li s have been as (F) or (B),)-0 OAD	11) Us 1-1 oc to 12) Us 6-1 oc to 13) Us 1-1 left	e MiTek /2 nails max. sta connect e MiTek 6d nails max. sta connect e MiTek /2 nails end to c	JL24 (' into Tru arting a truss(e HUS26 into Tr arting a truss(e JL24 (' into Tru connec	With 4-10d nails in uss) or equivalent t 13-11-8 from the s) to front face of 6 (With 14-16d na uss) or equivalen t 21-11-8 from the s) to front face of With 4-16d nails in uss) or equivalent t truss(es) to front	to Girder & 2-10d x spaced at 6-11-15 eleft end to 28-11-7 bottom chord. ills into Girder & t spaced at 2-11-15 eleft end to 24-11-7 bottom chord. to Girder & 2-10d x at 30-11-7 from the face of bottom
REACTIONS	(size) 1=0-3-8, 9 Max Horiz 1=-218 (L Max Uplift 1=-102 (L 18=-451 (Max Grav 1=345 (LC 18=-3264	9=0-6-0, 18=0-6-0 .C 6) .C 26), 9=-510 (LC 8 [LC 8) C 20), 9=2921 (LC 14 (LC 13)	3), 4 4),	unless otherwise indicated. Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed;						 chord. 14) Fill all nail holes where hanger is in contact with lumber. LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft) 			
FORCES	(lb) - Maximum Com Tension 1-2=-297/168, 2-3=- 4-5=-1683/362, 5-6=	npression/Maximum 31/279, 3-4=-849/27 1686/363.	2, 5	end vertical plate grip D(Building Des	end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 Building Designer / Project engineer responsible for Utrit 1-4=-54, 4-5=-54, 6-10=-54, 17-22= 16-17=-20, 9-15=-20 Concentrated Loads (lb) Vert: 27=-385 (F), 28=-385 (F), 29=-577						4, 17-22=-20, 29=-577 (F), 30=-577		
BOT CHORD	6-8=-3741/637, 8-9= 1-19=-135/263, 18-1 17-18=-228/162, 16 13-14=0/15, 12-13=	-4898/798, 9-10=0/4 19=-114/263, -17=-30/798, 14-15= -328/2988,	45 6 0/0, 7	requirement Provide ade This truss ha	verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom				(F), 31=-385 (F), 32=-383 (F), 33=-650 (F) This item has been				3=-650 (F) s been ed and
WEBS NOTES	11-12=-556/4010, 9 14-16=-8/169, 5-16= 2-18=-408/122, 3-16 3-17=-231/2245, 13 6-16=-847/196, 6-13 7-13=-1969/394, 7-1 8-12=-1241/279, 8-1 4-17=-1863/167, 4-1	-11=-556/4010 -202/73, 2-19=0/232 3=-2834/425, -16=-154/2113, 3=-383/1960, 12=-310/2096, 11=-166/1140, 16=-283/2407	2, ⁸ 9	 * This truss on the botto 3-06-00 tall chord and a Provide meet bearing platt 9, 451 lb upl O) Graphical pu or the orient bottom chor 	has been design m chord in all are by 2-00-00 wide ny other member shanical connecti e capable of with lift at joint 18 and urlin representati ation of the purlir d.	ed for a liv eas where will fit betv 's. on (by oth standing 5 102 lb up on does no a along the	e load of 20. a rectangle veen the bott ers) of truss 510 lb uplift a lift at joint 1. ot depict the e top and/or	Opsf com to t joint size				sealed by Et on the date i Printed copie document ar signed and s signature mu on any elect	binger, Joseph, PE ndicated here. es of this re not considered sealed and the ust be verified ronic copies.

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

May 14,2025

Page: 1



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-18	Piggyback Base	1	1	Ich Reference (ontional)	T37314129

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:11 ID:s0NVI71T?ixskJs9ooLQV_yHxHa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1.5x4 🛚





0-4-0 5-11	15 11-6-0	14-5-0	19-7-9	24-11-0	30-3-5	35-5-0	42-8-12	
0-4-0 5-7-	15 5-6-1	2-11-0	5-2-9	5-3-7	5-4-5	5-1-11	7-3-12	

Scale = 1:105.1		0-4-0						
Plate Offsets (X, Y):	[2:0-5-0,0-0-2], [15:0-0-12,0-2-2	[2:0-0-4,Edge], [3:0-1 2], [15:0-0-12,0-1-12]	-12,0-1-8], [5:0-1-12,0-7	1-8], [6:0-2-8,0-1-1:	3], [8:0-2-8,0-0-	4], [9:0-2-8,0-1-1	3], [10:0-1-12,0-1-	8], [11:0-5-12,0-2-8],

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		20.0	Plate Grip DOL	1.25		TC	0.22	Vert(LL)	-0.04	21	>999	360	MT20	244/190
TCDL		7.0	Lumber DOL	1.25		BC	0.22	Vert(CT)	-0.09	20-21	>999	240		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.36	Horz(CT)	0.05	19	n/a	n/a		
BCDL		10.0	Code	FBC202	3/TPI2014	Matrix-AS		Wind(LL)	0.02	20-21	>999	240	Weight: 293 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS WEDGE BRACING TOP CHORD BOT CHORD WEBS JOINTS	2x4 SP No 2x4 SP No 2x4 SP No 2x4 SP No Left: 2x4 S Structural v except 2-0-0 oc pr Rigid ceilin 1 Row at n	.1 .2 *Except .2 P No.2 wood shea urlins (6-0- ng directly nidpt	* 11-19:2x6 SP No. athing directly applie •0 max.): 6-9. applied. 5-24, 6-23, 9-22	W 1 d, 1)	EBS 5 6 2 9 9 1 1 1 1 1 2 2 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 7 7 7	-24=-1085/252, 5-2 -23=-659/65, 6-22= 0-29=-375/138, 10 -27=0/571, 21-27= -26=-386/28, 3-24= 1-19=-919/209, 20 1-30=-171/1231, 2 0-28=-71/157, 8-26 8-29=-6/43, 29-30= 2-18=-36/73 oof live loads have	23=-74/ =-85/64 -29=-3: 0/554, =-407/1 -30=-10 1-28=-0 6=-6/16 =-10/78	720, 9, 7-22=-289 57/136, 22-26=-383/2 24, 3-25=0/2 53/1168, 54/153, , 27-28=0/26 , 13-17=-170 considered fo	/147, ?7, 36, /80, r	 Probes Probes 2, 1 upli join 10) This strucho the 11) Grading ort bott 	vide mer ring plat 20 lb up ft at join t 18 and s truss d ictural w rrd and 1 bottom c phical p he orien tom chor CASE(S	chanica e capa lift at jo t 24, 13 88 lb t esign r ood sh /2" gyp chord. urlin re tation c rd.	al connection (by able of withstandir oint 19, 88 lb uplif 3 lb uplift at joint 1 uplift at joint 15. requires that a min eathing be applie bosum sheetrock b presentation doe of the purlin along ndard	others) of truss to ng 99 lb uplift at joint t at joint 15, 145 lb 17, 112 lb uplift at nimum of 7/16" d directly to the top e applied directly to s not depict the size the top and/or
JOINTS	1 Brace at	Jt(s): 27,		2)	Wind: ASCE	7-22: Vult=130mph) (3-sec	ond aust)		20/12	0/102(0)	, olu	liadia	
REACTIONS	(size) 2 Max Horiz 2 Max Uplift 2 Max Grav 2	2=0-3-8, 1 18=6-11-1 2=-220 (LC 2=-99 (LC 17=-13 (LC 19=-120 (L 2=461 (LC 17=260 (L 19=1170 (5=6-11-12, 17=6-11 2, 19=6-11-12, 24=1 C 10) 12), 15=-88 (LC 12 C 12), 18=-112 (LC LC 12), 24=-145 (LC 23), 15=172 (LC 2- C 24), 18=16 (LC 11) LC 1), 24=1411 (LC	-12, 12, 6-0 1, 18), 12) +), 	Vasd=101mp B=45ft; L=43 MWFRS (dirr Zone1 2-9-4 20-8-0 to 24- to 44-2-12 zo vertical left ar forces & MW DOL=1.60 pli	h; TCDL=4.2psf; B t; eave=5ft; Cat. II; ctional) and C-C Z to 14-7-8, Zone2 14 1-5, Zone2 24-1-5 ti ne; cantilever left a nd right exposed;C- FRS for reactions s ate grip DOL=1.60	CDL=6 Exp B one3 - 4-7-8 to to 30-3 and righ -C for n shown;	.0psf; h=25ft; ; Enclosed; I-6-0 to 2-9-4 20-8-0, Zone -5, Zone1 30- t exposed ; e nembers and Lumber	, 91 3-5 nd				This item ha	sheen
FORCES	(lb) - Maxir Tension	mum Com	pression/Maximum	- 3)	only. For stu	ds exposed to wind	l (norm	al to the face),				digitally sign	ed and
TOP CHORD BOT CHORD	1-2=0/45, 2 5-6=-218/2 8-9=-486/2 12-13=-16/ 9-10=-998 2-25=-213/ 23-24=-18 21-22=0/7 19-20=-51 17-18=-312	2-3=-348/1 223, 6-7=-4 258, 11-12 /326, 13-1 /233, 10-1 /426, 24-2 5/170, 22- 5/170, 22- 12, 20-21= 9/124, 18- 2/71, 15-1	80, 3-5=0/246, 475/253, 7-8=-475/2 =-18/367, 5=-127/357, 15-16= 1=-979/222 5=-69/284, 23=-36/212, -72/757, 19=-312/71, 7=-312/141	53, 4) D/26, 5) 6) 7) 8)	see Standard or consult que Weilding Desi verifying appl requirements Provide adeq Gable studs s This truss ha chord live loa * This truss h on the bottom	Industry Gable En alified building desi gner / Project engir ied roof live load st specific to the use uate drainage to pr spaced at 1-4-0 oc. s been designed fo d nonconcurrent w as been designed fo o chord in all areas	d Deta gner as neer re- nown co of this revent w r a 10.0 ith any for a liv where	ils as applical s per ANSI/TF sponsible for overs rain loa truss compor water ponding 0 psf bottom other live loa e load of 20.0 a rectandle	ole, PI 1. ding nent. J. ds. Opsf				sealed by Et on the date i Printed copie document ar signed and s signature mu on any elect	binger, Joseph, PE ndicated here. es of this re not considered sealed and the ust be verified ronic copies.
					3-06-00 tall b chord and an	y 2-00-00 wide will y other members.	fit betv	een the botto	om				MiTek Inc. DBA MiTek U 16023 Swingley Ridge Ro Date:	SA FL Cert 6634 ad, Chesterfield, MO 63017

May 14,2025

Page: 1



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-19	Piggyback Base	6	1	Job Reference (optional)	T37314130

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:12 ID:uMtl2KR5qRfVHk8IGDkUxryHx0F-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

					24-7	7-10			
-1-6-0	5-11-15	11-6-0	14-7-8	19-7-9	24-6-7	30-3-5	35-11-0	42-8-12	44-2-12
1-6-0	5-11-15	5-6-1	3-1-8	5-0-1	4-10-15 ₀₋₁	5-7-11	5-7-11	6-9-12	1-6-0
					42-8-12				



	0-4-0 5-11-15	11-6-0	14-5-0	19-7-9	24-11-0	30-3-5	35-5-0	42-4-12
Scale = 1:103.1	0-4-0 5-7-15	5-6-1	2-11-0	5-2-9	5-3-7	5-4-5	5-1-11	6-11-12 0-4-0

Plate Offects (X, X): [2:0.5.0 0.0.2] [2:0.0.4 Edge] [3:0.1.12 0.1.8] [5:0.1.12 0.1.8] [6:0.2.8 0.1.13] [0:0.5.12 0.2.0] [10:0.1.12 0.1.8] [11:0.8.12 0.2.0]

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	тс	0.27	Vert(LL)	-0.05	14-30	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.11	14-30	>782	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.05	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS		Wind(LL)	0.02	15-16	>999	240	Weight: 272 lb	FT = 20%

LUMBER			2)	Wir
TOP CHORD	2x4 SP N	0.1		Vas
BOT CHORD	2x4 SP N	0.1		B=4
WEBS	2x4 SP N	o.2 *Except* 11-14:2x6 SP No.1		ΜW
WEDGE	Left: 2x4	SP No.2		Zor
BRACING				20-
TOP CHORD	Structura	wood sheathing directly applied.		30-
	except	3, 11,		exp
	2-0-0 oc p	ourlins (6-0-0 max.): 6-9.		me
BOT CHORD	Rigid ceil	ing directly applied.		Lur
WEBS	1 Row at	midpt 5-19, 6-18, 8-17	3)	Bui
REACTIONS	(size)	2=0-3-8, 12=0-3-8, 14=0-6-0,		ver
	()	19=0-6-0	4)	req
	Max Horiz	2=-220 (LC 10)	4) 5)	Thi
	Max Uplift	2=-99 (LC 12), 12=-90 (LC 12),	5)	cho
		14=-115 (LC 12), 19=-146 (LC 12)	6)	* TI
	Max Grav	2=475 (LC 23), 12=279 (LC 24),	0)	001
		14=1224 (LC 1), 19=1389 (LC 1)		3-0
FORCES	(lb) - Max	imum Compression/Maximum		chc
	Tension		7)	Pro
TOP CHORD	1-2=0/45,	2-3=-371/178, 3-5=-22/215,		bea
	5-6=-240/	226, 6-7=-504/253, 7-8=-504/253,		2, 1
	8-9=-258/	/736, 9-10=-976/232,		lb u
	10-11=-92	20/207, 11-12=-212/220, 12-13=0/26	8)	Thi
BOT CHORD	2-20=-212	2/426, 19-20=-53/308,		stru
	18-19=-1	57/167, 17-18=-22/234,		chc
	16-17=0/	(69, 15-16=-52/750,		the
	14-15=-40	J1/121, 12-14=-198/283	9)	Gra
WEBS	5-19=-100	54/248, 5-18 = -71/701,		or t
	6-18=-64	$\frac{9}{62}, 6-17 = -84/660, 7-17 = -303/158, -205/424$		bot
	10-10=-50	0/140, 10-10=-300/131, 5/122 2 20-0/225 11 14- 070/222	LO	AD (
	11-15- 1	3/123, 3-20=0/233, 11-14=-3/9/233, 15/1062, 8-16=0/553, 8-17=-409/12		
NOTES	11-10=-14	+3/1002, 0-10-0/333, 0-17=-403/12		
NULES				

1) Unbalanced roof live loads have been considered for

this design.

Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=43ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 2-9-4, Zone1 2-9-4 to 14-7-8, Zone2 14-7-8 to 20-8-0, Zone1 20-8-0 to 24-7-10, Zone2 24-7-10 to 30-8-2, Zone1 30-8-2 to 44-2-12 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- Provide adequate drainage to prevent water ponding.
 This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 2, 115 lb uplift at joint 14, 146 lb uplift at joint 19 and 90 lb uplift at joint 12.

This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

OAD CASE(S) Standard

This item has been digitally signed and sealed by Ebinger, Joseph, 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.

Page: 1

Joseph Ebinger PE No. 98947 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Date:

May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-20	Piggyback Base	11	1	Job Reference (optional)	T37314131

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:12 ID:vodb9el3oSxo8FLikr_Me6yHwzs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

				24-7	7-10			
-1-6-0	7-6-3	14-7-8	19-7-9	24-6-7	30-3-5	35-11-0	42-8-12	44-2-12
1-6-0	7-6-3	7-1-5	5-0-1	4-10-15 ₀₋	5-7-11	5-7-11	6-9-12	1-6-0
				42-8-12				



	0-4-0	763	14 5 0	10 7 0	42 4 12 42-8-12			
	LI	7-0-3	14-5-0	19-7-9	24-11-0	30-3-5	35-5-0	42-4-12
	0-4-0	7-2-3	6-10-13	5-2-9	5-3-7	5-1-5	5-1-11	6-11-12 0-4-0
Scale = 1:103.1	0-4-0				0-0	, 0		0-4-0

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 7.0 0.0* 10.0	Spacing 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-AS	0.34 0.31 0.45	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.05 -0.11 0.04 0.02	(loc) 13-29 13-29 13 19-24	l/defl >999 >790 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 253 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD	2x4 SP No.1 2x4 SP No.1 2x4 SP No.2 *Excep Left: 2x4 SP No.2 Structural wood she except 2-0-0 oc purlins (6-0	ot* 10-13:2x6 SP No.1 athing directly applied 0-0 max.): 5-8.	2)	Wind: ASCE Vasd=101m B=45ft; L=4; MWFRS (dii Zone1 2-9-4 20-8-0 to 24 30-8-2 to 44 exposed ; er members ar	: 7-22; Vult=130m ph; TCDL=4.2psf; 3ft; eave=5ft; Cat. rectional) and C-C to 14-7-8, Zone2 -7-10, Zone2 24-7 -2-12 zone; cantil nd vertical left and d forces & MWFF	iph (3-sec ; BCDL=6 II; Exp B 2 Zone3 - 2 14-7-8 to 7-10 to 30 ever left a d right exp RS for rea	cond gust) .0psf; h=25ft ; Enclosed; 1-6-0 to 2-9-4 20-8-0, Zon -8-2, Zone1 and right posed;C-C for ctions showr	;; 4, e1 r					
BOT CHORD WEBS REACTIONS	Rigid ceiling directly 1 Row at midpt (size) 2=0-3-8, 1 18=0-11-1 Max Horiz 2=-220 (L Max Uplift 2=-114 (L 13=-0.321 (LC 13=-103 (L) Max Grav 2=521 (LC 13=1024 13=1024	applied. 3-18, 5-18, 7-17 11=0-3-8, 13=0-6-0, 3 C 10) C 12), 11=-91 (LC 12) LC 12), 18=-141 (LC C 23), 11=309 (LC 24) (LC 24), 18=1540 (LC	3) 4) 5) 12) 6) 1)	Lumber DOI Building Des verifying app requirement Provide ade This truss ha chord live lo * This truss on the botto 3-06-00 tall	=1.60 plate grp i signer / Project en ollied roof live load s specific to the u quate drainage to as been designed ad nonconcurrent has been designe m chord in all area to 2-00-00 wide w	DOL=1.60 I shown c se of this prevent for a 10.0 with any ed for a liv as where will fit betw	sponsible for overs rain loa truss compo water pondim 0 psf bottom other live loa e load of 20.1 a rectangle	ading nent. g. ads. 0psf					
FORCES	(lb) - Maximum Com Tension 1-2=0/45, 2-3=-408/ 5-6=-207/204, 6-7=-	pression/Maximum 176, 3-5=0/359, 207/204, 7-8=-219/49; - 747/170	7) 2,	chord and a Provide med bearing plate 2, 103 lb upl	ny other members chanical connections e capable of withs lift at joint 13, 141	s. on (by oth standing 1 lb uplift a	ers) of truss 14 lb uplift at t joint 18 and	to t joint d 91					
BOT CHORD WEBS	10-11=-212/177, 11 2-19=-210/425, 18-1 17-18=-263/212, 16 14-15=-28/598, 13-1 11-13=-197/282 3-19=0/309, 3-18=-5	-14=0/26 9=-68/320, -17=0/517, 15-16=0/55 4=-268/100, 548/207, 5-18=-1051/1	8) 51, 9)	Ib uplift at jo This truss de structural we chord and 1, the bottom c Graphical pu or the orient	Int 11. esign requires tha bod sheathing be /2" gypsum sheeti shord. urlin representatio ation of the purlin	t a minim applied d rock be a n does no along the	um of 7/16" irectly to the pplied directly of depict the top and/or	top y to size				This item ha digitally sign sealed by El on the date i Printed copie	s been ed and binger, Joseph, Pl ndicated here. es of this
NOTES	5-17=-89/713, 6-17= 9-15=-124/163, 9-14 10-13=-820/208, 10 7-16=0/478, 7-17=-5	⊧-289/136, l=-247/109, -14=-102/792, 517/31	LC	bottom chor DAD CASE(S)	d. Standard							document and signed and s signature mu on any elect	e not considered sealed and the ust be verified ronic copies.

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

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Date:

May 14,2025

Page: 1



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-21	Piggyback Base Girder	1	1	Job Reference (optional)	T37314132

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:13 ID:uAYNAndunHxvtVliiPAfnryHxn4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:120.2

[2:0-5-0,0-0-2], [2:0-0-4,Edge], [3:0-1-12,0-1-8], [5:0-2-12,0-2-0], [7:0-2-8,0-1-13], [8:0-1-8,0-2-0], [9:0-1-12,0-1-8], [10:0-6-0,0-2-8], [12:0-1-6,0-2-0], [12:0-1-6,0-1-8], Plate Offsets (X, Y): [19:0-2-6,0-2-0]

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	0.51	Vert(LL)	-0.08	19-20	>999	360	MT20	244/190
TCDL		7.0	Lumber DOL	1.25		BC	0.40	Vert(CT)	-0.17	19-20	>999	240		
BCLL		0.0*	Rep Stress Incr	NO		WB	0.69	Horz(CT)	0.06	14	n/a	n/a		
BCDL		10.0	Code	FBC20	23/TPI2014	Matrix-MS		Wind(LL)	0.04	17-18	>999	240	Weight: 271 lb	FT = 20%
				N	IOTES					U	niform Lo	oads (I	b/ft)	
TOP CHORD	2x4 SP N	0.1		. 1	1) Unbalanced roof live loads have been considered for Vert: 1-5=-54, 5-7=-54, 10-							5-7=-54. 10-13=-	54. 20-22=-20.	
BOT CHORD	2x4 SP N	lo.1			this design. 18-20=-20, 14-18=-20, 1 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Concentrated Loads (lb)						-18=-20, 14-27=-20, 7-10=-54			
WEBS	2x4 SP N	o.2 *Excep	ot* 10-14,6-19,17-8:2	x6 2							ads (lb)	,		
	SP No.1				Vasd=101m	ph; TCDL=4.2psf	f; BCDL=6	0.0psf; h=25ft	;		Vert: 17	-388	(B), 19=-515 (B)	
WEDGE	Left: 2x4 SP No.2				B=45ft; L=43	Bft; eave=5ft; Cat	. II; Exp B	; Enclosed;						
BRACING	MWFRS (directional); cantilever left and right exposed ;													
TOP CHORD	Structura	l wood she	athing directly applie	ed or	end vertical	left and right exp	osed; Lun	nber DOL=1.	60					
	5-5-8 oc	purlins, exc	cept		plate grip DC	JL=1.60								
	2-0-0 oc	2-0-0 oc purlins (6-0-0 max.): 5-7. 3) Building Designer / Project engineer responsible for												
BOT CHORD	Rigid ceil	ing directly	applied or 6-0-0 oc		requirements	s specific to the L	use of this		nent					
	bracing.	and sheet	0.00 5.00	Δ) Provide ader	nuate drainage to	nrevent	water pondin	nent. a					
WEBS	1 Row at	miapt	3-20, 5-20	5) This truss ha	as been designed	for a 10.	0 psf bottom	9.					
REACTIONS	IONS (size) 2=0-3-8, 12=6-11-12, 14=6-11-12, chord live load nonconcurrent with any other live loads.													
	20=0-11-8 Max Horiz 2-220 (LC 6)			6	* This truss has been designed for a live load of 20.0psf									
	Max Holift	2=-220 (L 2_ 191 (L	C 25) 12- 105 (LC 1	25)	on the bottom chord in all areas where a rectangle									
	Max Opint	2=-101 (L 14293 /	(LC 8) 20397 (LC)	20), 8)	3-06-00 tall by 2-00-00 wide will fit between the bottom									
	Max Grav	2=403(1)	C 19) 12=170 (I C 20	0) _	chord and ar	ny other member	S							
	max erat	14=1559	(LC 20). 20=2162 (LC	C 1) 7) Provide mec	hanical connection	on (by oth	ers) of truss	to					
FORCES	(lb) - Max	imum Com	pression/Maximum	- /	bearing plate	e capable of with	standing 1	81 lb uplift a	t joint					
	Tension				2, 293 ID UPI	12 and 105 lb ur	lift at ioin	it joint ∠0, 10 ±12	מו כ					
TOP CHORD	1-2=0/45	, 2-3=-209/	231, 3-5=-15/570,	P) Graphical pu	Iz and 100 lb up	on does no	t denict the	size				This item ha	s been
	5-6=-658	/277, 6-7=-	658/277,		or the orient	ation of the purlin	along the	e top and/or	0120				digitally sign	ed and
	10-12=-1	46/642, 12	-13=0/26, 7-8=-1084	/316,	bottom chore	d.	J							eu anu
	8-9=-126	4/364, 9-10)=-1105/262	g) "NAILED" in	dicates Girder: 3-	-16d (0.16	2" x 3.5") to	e-				sealed by Er	linger, Joseph, P⊏
BOT CHORD	2-21=-21	5/240, 20-2	21=-163/204,		nails per ND	S guidelines.							on the date i	ndicated here.
	19-20=-4	33/244, 18	-19=-64/783,	1	0) Hanger(s) or	other connection	n device(s) shall be					Printed copie	es of this
	17-18=-1	1/007 14 1	0-1/=-00/980, 15- 920/222		provided suf	ficient to support	concentra	ated load(s) 5	515				document ar	e not considered
	12-145	58/148	15=-025/222,		Ib down and	230 lb up at 21-	11-12 on	bottom chore	l. 				signed and s	sealed and the
WEBS	3-21=0/3	14. 3-20=-	555/150, 5-20=-1598	/317.	The design/selection of such connection device(s) is the						ist be verified			
	5-19=-27	3/1393, 9-1	15=-577/163,	,	1) In the I OAD	CASE(S) section	n loade a	onlied to the	face				on any elect	ronic conies
	10-14=-1	180/295, 1	0-15=-281/1622,	I	of the truss a	are noted as front	t (F) or ha	ck (B)	ace				on any elect	
	6-19=-39	0/129, 8-17	7=-99/223,		OAD CASE(S)	Standard		on (D).					Joseph Fhinger DF No. 6	190.47
	8-18=-31	8/155, 9-16	6=-71/284, 7-19=-337	7/0, 1) Dead + Ro	of Live (halanced	I). Lumber	Increase-1	25				MiTek Inc. DBA MiTek U	SA FL Cert 6634
7-18=-131/832				Plate Increase=1.25 Date:						au, Chesterneid, MO 63017				

May 14,2025

Page: 1



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-22	Piggyback Base	1	1	Job Reference (optional)	T37314133

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:13 ID:5Q4yPYw2pZWgQx_Y2u1OJeyHe8S-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



0-4-0	7-6-3	14-5-0	21-2-10	21-11-0 21-5-8
0-4-0	7-2-3	6-10-13	6-9-10	0-2-14 0-5-8

Scale = 1:91.3

Plate Offsets	(X, Y): [2:0-0	-7,0-0-2],	[2:0-0-4,Edge], [3:0	-1-12,0-1-8	8], [4:0-2-4,0-1	-12], [5:0-2-4,0-3	2-5], [8:0-2	4,0-2-8]						
Loading TCLL (roof) TCDL BCLL BCDL		(psf) 20.0 7.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC202	23/TPI2014	CSI TC BC WB Matrix-AS	0.30 0.30 0.18	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.05 -0.10 0.01 0.04	(loc) 7-8 7-8 6 9-14	l/defl >999 >849 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT20HS Weight: 143 lb	GRIP 244/190 187/143 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD	2x4 SP No. 2x4 SP No. 2x4 SP No. Left: 2x4 SI Structural v except end (6-0-0 max Rigid ceilin	1 *Excep 1 2 *Excep P No.2 vood shea verticals .): 4-5. g directly	t* 4-5:2x6 SP No.1 t* 6-5:2x6 SP No.1 athing directly applie , and 2-0-0 oc purlin applied.	3) 4) 5) 6) ed, 5 5	Building Des verifying app requirements Provide adeo All plates are This truss ha chord live loa * This truss f on the bottor 3-06-00 tall b	igner / Project e lied roof live loas s specific to the quate drainage t e MT20 plates u is been designe ad nonconcurren has been desigr n chord in all ar by 2-00-00 wide	engineer rea ad shown co use of this to prevent v nless other ad for a 10.0 nt with any ned for a liv eas where will fit betw	sponsible for overs rain loa truss compo vater pondin wise indicate) psf bottom other live loa e load of 20. a rectangle reen the bott	ading onent. g. ed. ads. 0psf					
WEBS REACTIONS	1 Row at m (size) 2 Max Horiz 2 Max Uplift 2 Max Grav 2	hidpt 2=0-3-8, 6 2=309 (LC 2=-56 (LC 3=-36 (LC 2=603 (LC 3=814 (LC	3-8, 4-8 5= Mechanical, 8=0- 2 12) 2 12), 6=-161 (LC 9), 3 12) 3 (LC 24), 5 (LC 24), 5 (LC 24), 5 (LC 24),	11-8 8) 9) , 10	chord and ar Refer to gird. Provide mec bearing plate 2, 36 lb uplift)) This truss de structural wo	er(s) for truss to hanical connect e capable of with t at joint 8 and 1 esign requires the bod sheathing be	rs. truss conr tion (by oth nstanding 5 61 lb uplift hat a minim e applied di atrock be a	ections. ers) of truss 6 lb uplift at at joint 6. um of 7/16" rectly to the polied directly	to joint top					
FORCES	(lb) - Maxin Tension 1-2=0/35, 2	num Com 2-3=-583/	pression/Maximum 100, 3-4=-120/102,	11	the bottom c Graphical pu or the orienta	hord. hord representation of the purli	ion does no n along the	t depict the top and/or	size					
BOT CHORD	4-5=-30/6, 2-9=-203/4 6-7=-26/49	5-6=-199/ 28, 8-9=-:	/99 203/428, 7-8=-108/4	^{15,} L0	bottom chord DAD CASE(S)	d. Standard								
WEBS	3-9=0/300, 4-7=-23/12	3-8=-521 7	/151, 4-8=-387/59,										This item ha digitally sign	s been ed and
 Unbalanc this desig Wind: AS Vasd=101 	ed roof live loa n. CE 7-22; Vult= 1mph; TCDL=	ads have =130mph 4.2psf; B(been considered for (3-second gust) CDL=6.0psf; h=25ft;	r									sealed by Et on the date i Printed copie document ar	ndicated here. es of this re not considered

B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-2-0 to 1-10-0, Zone1 1-10-0 to 14-7-8, Zone2 14-7-8 to 18-10-6, Zone1 18-10-6 to 21-8-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

႔ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. WARNING - verify design parameters and READ NOTES ON THIS AND INCLOSED INTERNETING TO THE REFERENCE FOR UNIT 175 TOT. Inductor Section 2015 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) signed and sealed and the signature must be verified on any electronic copies.

Page: 1

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-23	Piggyback Base	1	1	Job Reference (optional)	T37314134

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:14 ID:Y4VxWQU3CWrno0hxs?K_URyHyCN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



14-4-0 7-0-8 13-8-8 +-1 7-0-8 6-8-0 0-7-8 14-4-0 5x5= 4x5= <u>9</u> 10 2 3 8¹² 3x5 10-1-7 5-5-2 ¥₽₄ 3x8 -2-4-3 _⊥4 12 6 5



5x5 =

2x4 II

Scale = 1:73.4

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

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25		TC	0.24	Vert(LL)	-0.06	4-5	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25		BC	0.27	Vert(CT)	-0.13	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.12	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC202	3/TPI2014	Matrix-AS		Wind(LL)	0.00	4-5	>999	240	Weight: 120 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SP No.1 *Except* 2x4 SP No.1 2x4 SP No.2 *Except* Structural wood shea except end verticals, (6-0-0 max): 2-3	* 2-3:2x6 SP No.1 * 4-3,6-1:2x6 SP No thing directly applie and 2-0-0 oc purlins	6) .1 7) d, 8)	* This truss I on the bottor 3-06-00 tall I chord and au Refer to gird Provide med bearing plate 4.	has been design m chord in all are by 2-00-00 wide hy other membe er(s) for truss to chanical connect e capable of with	ed for a live eas where will fit betw rs. truss conn ion (by othe astanding 1	e load of 20. a rectangle een the bott ections. ers) of truss 36 lb uplift a	Opsf tom to t joint					
BOT CHORD WEBS REACTIONS	Rigid ceiling directly a 1 Row at midpt 2 (size) 4= Mechan Max Horiz 6=128 (LC Max Uplift 4=-136 (LC Max Grav 4=513 (LC	applied. 2-5, 2-4 nical, 6= Mechanical 12) 2 9) 1), 6=513 (LC 1)	9) 10	This truss de structural we chord and 1/ the bottom c) Graphical pu or the orient bottom chore	esign requires th bod sheathing be 2" gypsum shee hord. urlin representati ation of the purli d.	at a minimu e applied di etrock be ap on does no n along the	um of 7/16" rectly to the oplied directl t depict the top and/or	top y to size					
FORCES	(lb) - Maximum Comp Tension	pression/Maximum	LC	AD CASE(S)	Standard								
TOP CHORD	1-2=-345/50, 2-3=-28, 1-6=-449/58	/3, 3-4=-197/97,											
BOT CHORD	5-6=-171/99, 4-5=-12	5/241											
WEBS	2-5=-64/136, 2-4=-26	6/151, 1-5=0/216											
NOTES													
 Unbalanc this desig Wind: AS Vasd=101 B=45ft; L= MWFRS (Zone1.10 	ed roof live loads have b n. CE 7-22; Vult=130mph (Imph; TCDL=4.2psf; BC =24ft; eave=4ft; Cat. II; E (directional) and C-C Zoi 5-12 to 14.3-8, Zone2.1	eeen considered for 3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; ne3 7-5-12 to 10-5-1 4-3-8 to 18-6-6 70	2,									This item ha digitally sign sealed by Et on the date i	s been ed and pinger, Joseph, PE indicated here.

18-6-6 to 21-4-4 zone; cantilever 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.
- Provide adequate drainage to prevent water ponding. 4)
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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Joseph Ebinger PE No. 98947 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

May 14,2025



🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. WARNING - verify design parameters and READ NOTES ON THIS AND INCLOSED INTERNETING TO THE REFERENCE FOR UNITY TO THE INSTANCE OF THE ADDRESS OF THE ADDRESS

Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-24	Piggyback Base Girder	1	1	Job Reference (optional)	T37314135

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:14 ID:N8b3mX4dRuvd18jE94_wFUyHyUz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





1	6-10-12	14-4-12	20-3-4	28-4-0	_
Scale = 1:87.6	6-10-12	7-6-0	5-10-8	8-0-12	

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 7.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 NO FBC202	3/TPI2014	CSI TC BC WB Matrix-MS	0.70 0.72 0.62	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.16 -0.30 0.05 0.09	(loc) 8-15 8-15 6 8-15	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 208 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD	2x4 SP No.1 2x4 SP No.1 2x4 SP No.2 *Except No.1 Structural wood sheat 3-1-11 oc purlins, ex 2-0-0 oc purlins (6-0- Rigid ceiling directly bracing. 1 Row at midpt (size) 6=0-6-0, 1 Max Horiz 12=-288 (I Max Uplift 6=-349 (Lf Max Grav 6=1800 (L (Ib) - Maximum Com Tension 1-2=-1159/277, 2-3= 3-4=-1694/500, 4-5= 5-6=-2626/507, 6-7= 11-12=-165/242, 9-1	t* 12-1,9-4,8-5:2x6 S athing directly applie xcept end verticals, a -0 max.): 2-3. applied or 10-0-0 oc 3-11, 4-9, 5-9 2= Mechanical LC 6) C 8), 12=-245 (LC 8) C 14), 12=-1516 (LC pression/Maximum -907/281, -1840/446, 0/45, 1-12=-1422/27 1=-84/1400, -284/2005	4) 5) 3(P 6) and 7) 8) 9) 10) 14) 11) 12] (9 13)	Provide adec This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and an Refer to girdd Provide mecl bearing plate 12 and 349 II Graphical pu or the orienta bottom chorc Use MiTek JI 1-1/2 nails in left end to co chord. Fill all nail ho "NAILED" inc per NDS guid In the LOAD of the truss a	uate drainage to p s been designed f id nonconcurrent v has been designed in chord in all areas by 2-00-00 wide wi by other members, er(s) for truss to tru- hanical connection capable of withste o uplift at joint 6. rlin representation tion of the purlin a l. L24 (With 4-10d ni to Truss) or equiva nnect truss(es) to les where hanger licates Girder: 3-1 delines. CASE(S) section, re noted as front (prevent n for a 10.0 with any d for a liv s where uss conr h (by oth anding 2 h does no along the ails into alent at 2 front fac is in cor 0d (0.14 loads a (F) or ba	water pondin.) psf bottom other live loa e load of 20.1 a rectangle veen the bott DL = 10.0ps lections. ers) of truss i 45 lb uplift ai ot depict the si- top and/or Girder & 2-10 21-7-12 from e of bottom tact with lum 8" x 3") toe- oplied to the ck (B).	g. ads. Opsf om f. to t joint size Od x the nber. nails face					
WEBS NOTES 1) Unbalanc this desig 2) Wind: ASI Vasd=101 B=45ft; L= MWFRS (end vertic plate grip 3) Building D verifying a	1-11=-169/1138, 2-1 3-11=-883/222, 4-9= 3-9=-372/1407, 5-9= ed roof live loads have n. CE 7-22; Vult=130mph mph; TCDL=4.2psf; BG =28ft; eave=4ft; Cat. II; directional); cantilever I al left and right expose DOL=1.60 Designer / Project engin applied roof live load sh	1=-16/347, -35/162, 5-8=-52/67 -965/251 been considered for (3-second gust) CDL=6.0psf; h=25ft; Exp B; Enclosed; left and right expose d; Lumber DOL=1.6(eer responsible for own covers rain load	LO 1, 1) d;) ding	AD CASE(S) Dead + Roc Plate Increa Uniform Loa Vert: 1-2: Concentrate Vert: 9=-	Standard of Live (balanced): isse=1.25 ads (lb/ft) =-54, 2-3=-54, 3-7 ed Loads (lb) 544 (F), 8=-354 (F	Lumber =-54, 12	Increase=1. -13=-20	25,				This item ha digitally sign sealed by Et on the date i Printed copie document ar signed and s signature mu on any elect	s been ed and binger, Joseph, PE ndicated here. es of this re not considered sealed and the ust be verified ronic copies.

requirements specific to the use of this truss component.

May 14,2025

Page: 1



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-25	Piggyback Base	1	1	Job Reference (optional)	T37314136

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:14 ID:N8b3mX4dRuvd18jE94_wFUyHyUz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





L	6-10-12	13-10-4	20-9-13	28-4-0	_
I	6-10-12	6-11-8	6-11-9	7-6-3	

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

Loading TCLL (roof) TCDL BCLL BCDI	(psf) 20.0 7.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 YES EBC202	3/TPI2014	CSI TC BC WB Matrix-AS	0.47 0.44 0.22	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.09 -0.18 0.03 0.05	(loc) 8-15 8-15 6 8-15	l/defl >999 >999 n/a ⊳999	L/d 360 240 n/a 240	PLATES MT20	GRIP 244/190 ET = 20%	
LUMBER TOP CHORI BOT CHORI WEBS BRACING TOP CHORI WEBS REACTIONS FORCES TOP CHORI BOT CHORI WEBS	 2x4 SP No.1 2x4 SP No.1 2x4 SP No.2 Structural wood shearer except end verticals. (6-0-0 max.): 2-3. Rigid ceiling directly 1 Row at midpt (size) 6=0-6-0, 1 Max Horiz 12=-190 (Max Uplift 6=-154 (L Max Grav 6=1266 (L (Ib) - Maximum Com Tension 1-2=-876/159, 2-3=-4 5-6=-1697/176, 6-7= 1-12=-146/159, 2-3=-4 6-8=-44/1348 2-11=-275/119, 2-9= 5-9=-653/156, 5-8=0 	athing directly applie and 2-0-0 oc purlins applied. 2-11, 5-9 2= Mechanical LC 12) C 12), 12=-125 (LC C 18), 12=1166 (LC pression/Maximum 897/221, 3-5=-1161/ 0/45, 1-12=-1067/18 1=0/744, 8-9=-44/13 -57/437, 3-9=0/322, /305, 1-11=-45/827	4) 5) 6) s s 7) 8) 9) 12) 12) 12) 12) 13 10 (199, 35 8, 48, 10	Provide adec This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and ar Refer to gird Provide mecl bearing plate 12 and 154 ll This truss de structural wo chord and 1/2 the bottom cl) Graphical pu or the orienta bottom chorc DAD CASE(S)	uate drainage to p so been designed for ad nonconcurrent w has been designed in chord in all areas by 2-00-00 wide will yo other members, er(s) for truss to tru- hanical connection capable of withsta b uplift at joint 6. sign requires that a od sheathing be a 2" gypsum sheetro hord. rlin representation ation of the purlin a f. Standard	prevent to or a 10.0 vith any for a liv s where Il fit betw with BC uss conr (by oth anding 1 a minim pplied di ock be ap does no long the	vater pondin other live loz e load of 20. a rectangle veen the bott DL = 10.0ps ections. ers) of truss 25 lb uplift a um of 7/16" rectly to the oplied directl ot depict the top and/or	g. ads. Opsf fom f. to t joint top y to size						
NOTES 1) Unbalan this desi 2) Wind: AS Vasd=10 B=45ft; L MWFRS Zone1 10 18-6-6 to 25-2-7 to	ced roof live loads have gn. SCE 7-22; Vult=130mph)1mph; TCDL=4.2psf; B(_=28ft; eave=4ft; Cat. II; (directional) and C-C Zc 0-4-12 to 14-3-8, Zone2 0-4-12 to 14-3-8, Zone2 0-20-11-8, Zone2 20-11 0-37-1-0 zone; cantilever	been considered for (3-second gust) CDL=6.0psf; h=25ft; Exp B; Enclosed; one3 7-4-12 to 10-4- 14-3-8 to 18-6-6, Zo 8 to 25-2-7, Zone1 left and right	12, ne1									This item ha digitally sign sealed by Et on the date i Printed copie document ar signed and s signature mu	s been ed and binger, Joseph ndicated here. es of this e not consider sealed and the ust be verified	ı, PE red

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 verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Date:

on any electronic copies.

May 14,2025

Page: 1



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-26	Piggyback Base	2	1	Job Reference (ontional)	T37314137

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:14 ID:7UwTgw2GLXWmTgcdXE5T7xyHzqD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





	6-10-12	13-10-4	20-9-13	28-4-0
	6-10-12	6-11-8	6-11-9	7-6-3
Scale = 1:79.8				

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

Loading FCLL (roof) FCDL	(psf) 20.0 7.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25		CSI TC BC	0.47 0.46	DEFL Vert(LL) Vert(CT)	in -0.10 -0.19	(loc) 6-13 6-13	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 244/190	
	0.0*	Rep Stress Incr	YES FBC202	3/TPI2014	WB Matrix-AS	0.22	Horz(CT)	0.03	5 6-13	n/a ∖ooo	n/a 240	Weight: 176 lb	FT - 20%	
LUMBER FOP CHORD 30T CHORD 30T CHORD 30T CHORD 30T CHORD WEBS REACTIONS	2x4 SP No.1 2x4 SP No.1 2x4 SP No.2 Structural wood she except end verticals (6-0-0 max.): 2-3. Rigid ceiling directly 1 Row at midpt (size) 5= Mecha Max Horiz 10=148 (I Max Uplift 5=-100 (L	code athing directly applie , and 2-0-0 oc purlin applied. 2-9, 4-7 nical, 10= Mechanic C 11) C 12), 10=-127 (LC	4) 5) 6) sd, s 7) 8) cal 9) 12)	Provide adec This truss ha chord live loc * This truss h on the bottor 3-06-00 tall b chord and ar Refer to gird Provide mec bearing plate 5 and 127 lb This truss de structural wo chord and 1/	Matrix-AS quate drainage to p is been designed for as been designed for as been designed in chord in all areas by 2-00-00 wide will by other members, er(s) for truss to tru- hanical connection e capable of withsta- uplift at joint 10. sign requires that a od sheathing be ap 2" ovnsum sheetto	revent v or a 10.0 vith any for a liv s where I fit betv with BC lss conr (by oth unding 1 a minim oplied d ck be a	wind(LL) water pondim other live load e load of 20. a rectangle veen the bott DL = 10.0ps lections. ers) of truss i 00 lb uplift ai um of 7/16" rectly to the	g. ads. Opsf tom f. t joint t joint	6-13	>999	240	Weight: 176 ib	F1 = 20%	
ORCES	Max Grav 5=1192 (L (lb) - Maximum Com	.C 18), 10=1168 (LC pression/Maximum	C 18) 10)	the bottom cl Graphical pu	hord. rlin representation	does no	ot depict the	size						
FOP CHORD	1-2=-878/160, 2-3=- 4-5=-1708/183 1-10	899/222, 3-4=-1165/ =-1069/186	/202,	or the orienta	ation of the purlin a I.	long the	top and/or							
BOT CHORD	9-10=-141/161, 7-9= 5-6=-71/1362	0/733, 6-7=-71/1362	2,	AD CASE(S)	Standard									
WEBS	2-9=-276/119, 2-7=- 4-7=-663/166, 4-6=0	58/438, 3-7=0/323, //307, 1-9=-46/829												
VOTES) Unbalance this design 2) Wind: ASC Vasd=101 B=45ft; L= MWFRS (Zone1 10-	ed roof live loads have n. CE 7-22; Vult=130mph mph; TCDL=4.2psf; B(=28ft; eave=4ft; Cat. II; directional) and C-C Z(4-12 to 14-3-8, Zone2	been considered for (3-second gust) CDL=6.0psf; h=25ft; Exp B; Enclosed; one3 7-4-12 to 10-4- 14-38 to 18-6-6 7	r -12, 									This item ha digitally sign sealed by Et on the date i Printed copie document as	s been ed and binger, Josep ndicated her es of this re not conside	⊳h, PE e. ered

Wadd-Tofffit, Te2Part, Park, Data, Te2Park, Te2P

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

Page: 1

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Date:

May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME		
24-0602-A1	T-27	Piggyback Base Girder	1	1	Job Reference (optional)	T37314138	

IN THIS JOB.

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:15 ID:VLG7Fyv5VUyydvwbOyOig8yHyi6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





[1:0-4-0,0-0-4], [3:0-2-4,0-1-8], [7:0-2-8,0-1-13], [12:0-4-4,0-2-4], [17:0-1-4,0-1-8], [20:0-2-8,0-2-4], [21:0-3-8,0-1-8], [22:Edge,0-2-12], [23:0-3-8,0-2-8], [20:0-2-8,0-2-4], [21:0-3-8,0-1-8], [22:Edge,0-2-12], [23:0-3-8,0-2-8], [20:0-2-8,0-2-4], [20:0-2-8,0-2-8], [20:0-2-8,0-2-Plate Offsets (X, Y): [24:0-2-8,0-2-12], [25:0-3-0,0-3-12], [27:0-4-0,0-3-12], [28:0-3-8,0-4-0], [29:0-4-0,0-0-4]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 7.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 NO FBC202	3/TPI2014	CSI TC BC WB Matrix-MS	0.62 0.61 0.93	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.14 -0.26 0.05 0.12	(loc) 24-25 24-25 22 24-25	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 332 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS JOINTS REACTIONS	2x4 SP No.1 2x6 SP No.1 2x4 SP No.2 *Except No.1 2x4 SP No.2 Structural wood sheat 2-9-13 oc purlins, ex Rigid ceiling directly bracing. 1 Row at midpt 1 Brace at Jt(s): 30, 31, 33, 34, 35 (size) 22= Mech Max Horiz 29=-257 (I Max Uplift 22=-599 (I Max Grav 22=3036 (t* 29-1,21-22:2x6 SP athing directly applied coept end verticals. applied or 9-3-6 oc 3-28 anical, 29= Mechanic LC 6) LC 8), 29=-612 (LC 8 LC 14), 29=3001 (LC	WI I or :al : 14)	EBS 2 1 1 3 3 2 2 1 1 3 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3	5-35=-1285/320, 3 7-49=-1074/212, 2 7-36=-228/1311, 2 -28=-541/2633, 28 -32=-1777/389, 3: 0-38=-273/1464, 2 0-23=-1644/393, 2 2-34=-356/1787, 2 -31=-193/881, 27-3 31=-193/881, 27-3 31=-193/881, 27-3 31=-3989/180, 43 2-45=-1049/191, 2 0-322=-390/146, 30 9-40=-322/88, 31-4 -37=-357/139, 32-3 1-41=-352/94, 41- 3-42=-352/94, 33-4 4-46=-405/113, 34 4-47=-359/104, 47 0-51=-359/104, 35	5-49=- 4-36=-; 1-23=-{ -32=-1{ 38=-28; 7-30=-; 5-34=-; 7-31=-; 333=-10; -45=-98; 0-24=-{ -39=-3; 40=-32; 40=-32; 42=-35; 44=-40; -51=-3; -50=-3;	1196/261, 226/1320, 362/4385, 310/398, 2/1411, 257/1383, 396/2036, 186/894, 71/242, 352/173, 22/74, 352/173, 22/88, 2/88, 2/88, 2/88, 2/13, 5/113, 5/113, 5/113, 59/104,		 Trueston Trueston Trueston Protection Protection Protection Protection Protection Trueston <li< td=""><td>iss desig y. For st Standa consult q idding De ifying ap pluiremeni vide ade plates ar icated. iss to be icced agai ble studs s truss h bis truss the botto 6-00 tall ord and a</td><td>ned for uds ex rd Indu ualified signer plied ro squate e 1.5x- fully sh nst late space as bee vad nor has be om cho by 2-0 ny oth</td><td>wind loads in the posed to wind (no stry Gable End D d building designe / Project enginee oof live load show ific to the use of t drainage to preve 4 () MT20 unles meathed from one eral movement (i ed at 1-4-0 oc. In designed for a concurrent with a even designed for a d' in all areas with 0-00 wide will fit b er members. with</td><td>e plane of the truss ormal to the face), letails as applicable, er as per ANSI/TPI 1. r responsible for m covers rain loading this truss component. ent water ponding. s otherwise face or securely e. diagonal web). 10.0 psf bottom any other live loads. a live load of 20.0psf ere a rectangle between the bottom BCDL = 10.0psf.</td><td>1</td></li<>	iss desig y. For st Standa consult q idding De ifying ap pluiremeni vide ade plates ar icated. iss to be icced agai ble studs s truss h bis truss the botto 6-00 tall ord and a	ned for uds ex rd Indu ualified signer plied ro squate e 1.5x- fully sh nst late space as bee vad nor has be om cho by 2-0 ny oth	wind loads in the posed to wind (no stry Gable End D d building designe / Project enginee oof live load show ific to the use of t drainage to preve 4 () MT20 unles meathed from one eral movement (i ed at 1-4-0 oc. In designed for a concurrent with a even designed for a d' in all areas with 0-00 wide will fit b er members. with	e plane of the truss ormal to the face), letails as applicable, er as per ANSI/TPI 1. r responsible for m covers rain loading this truss component. ent water ponding. s otherwise face or securely e. diagonal web). 10.0 psf bottom any other live loads. a live load of 20.0psf ere a rectangle between the bottom BCDL = 10.0psf.	1
FORCES	(lb) - Maximum Com Tension 1-29=-2929/619_7-8	pression/Maximum	,	3	5-36=-429/153, 36 9-48=-430/152, 2-3 -39=-101/48 6-40	-48=-43 37=-14/ =-11/16	30/152, 12, 4-38=-33/ 8-41=-21/73	(105,	11) Re	fer to gird	der(s) f	or truss to truss c	connections.	
BOT CHORD	$\begin{array}{l} 8-9=-1616/442, 9-10\\ 10-11=-1616/442, 9-10\\ 10-21=-38167/84, 21\\ 1-2=-950/196, 2-3=-6\\ 4-5=-1961/459, 5-6=\\ 6-7=-1961/507, 12-1\\ 13-14=-2577/624, 14\\ 15-16=-2588/575, 16\\ 17-18=-3394/700, 18\\ 19-20=-3845/815\\ 28-29=-198/212, 27-\\ 25-27=-429/2480, 24\\ 23-24=-722/3857, 22\\ \end{array}$	- 13 (13 (142, - 13 (6) (142, - 12=-1616) (442, - 12=-2530) (529, 314/197, 3-4=-2002) (4) - 1985 (492, 3=-2390) (598, 1-15=-2542) (603, - 17=-2510) (534, 3-19=-3449) (696, 28=-285/1221, 1-25=-590) (3224, 2-23=-51/119	36, NC 1) 2)	The second secon	-42=-104/51, 10-4/ 1-45=-59/235, 45- 3-47=-49/277, 18- 5-50=-51/51, 14-5 roof live loads have 7-22; Vult=130mph h; TCDL=4.2psf; B t; eave=4ft; Cat. II; ectional); cantilever aft and right expose L=1.60	a been of been of contraction	41, 43-44=-9 158, 7, 16-49=-160 28 considered for ond gust) .0psf; h=25ft; Enclosed; d right expose iber DOL=1.6	, 1/29, D/65, ed ; 0				This item ha digitally sign sealed by Et on the date i Printed copie document ar signed and s signature mu on any elect	s been ed and binger, Joseph, ndicated here. es of this re not considere sealed and the ust be verified ronic copies.	PE d

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MC field, MO 63017

May 14,2025



Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. WARNING - verify design parameters and READ NOTES ON THIS AND INCLOSED INTERNETING TO THE REFERENCE FOR UNITY TO THE INSTANCE OF THE ADDRESS OF THE ADDRESS

Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	T07044400
24-0602-A1	T-27	Piggyback Base Girder	1	1	Job Reference (optional)	137314138

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 612 lb uplift at joint 29 and 599 lb uplift at joint 22.
- 13) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, 1) Plate Increase=1.25
 - Uniform Loads (lb/ft)
 - Vert: 7-12=-54, 20-21=-54, 22-29=-20, 1-7=-54, 12-20=-54
 - Concentrated Loads (lb)
 - Vert: 53=-267 (B), 54=-267 (B), 55=-267 (B),
 - 56=-267 (B), 57=-267 (B), 58=-267 (B), 59=-267 (B), 60=-267 (B), 61=-267 (B), 62=-267 (B), 63=-228 (B), 64=-250 (B), 65=-250 (B), 66=-256 (B)

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:15 ID:VLG7Fyv5VUyydvwbOyOig8yHyi6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

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May 14,2025



👠 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. WARNING - verify design parameters and READ NOTES ON THIS AND INCLOSED INTERNETING TO THE REFERENCE FOR UNITY TO THE INSTANCE OF THE ADDRESS OF THE ADDRESS

Job	Truss	Truss Type		Ply	GAINEY HOME		
24-0602-A1	T-28	Common Supported Gable	1	1	Job Reference (optional)	T37314139	

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:15 ID:_nOB8RbRpopjP9TSFpWrEZyI_Wi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



	13-0-0	
Scale = 1:45.7		
Plate Offsets (X, Y): [2:0-1-12,0-1-15], [12:0-1-12,0-1-15]		

Loading TCLL (roof)		(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.25		CSI TC	0.12	DEFL Vert(LL)	in n/a	(loc) -	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190
TCDL		7.0	Lumber DOL	1.25		BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.03	Horz(CT)	0.00	24	n/a	n/a		
BCDL		10.0	Code	FBC202	3/TPI2014	Matrix-AS							Weight: 77 lb	FT = 20%
LUMBER				2)	Wind: ASCE	7-22; Vult=130mp	h (3-seo	cond gust)						
TOP CHORD	2x4 SP N	0.1		,	Vasd=101m	oh; TCDL=4.2psf; E	3CDL=6	6.0psf; h=25ft	;					
BOT CHORD	2x4 SP N	0.1			B=45ft; L=24	lft; eave=2ft; Cat. II	; Exp B	; Enclosed;						
OTHERS	2x4 SP N	0.2			MWFRS (dir	ectional) and C-C 2	Zone3 z	one; cantileve	er					
BRACING					left and right	exposed ; end ver	tical left	and right						
TOP CHORD	Structura	l wood she	athing directly applie	d.	exposed;C-C	c for members and	forces	& MWFRS for	r					
BOT CHORD	Rigid ceil	ina directly	applied.		reactions she	own; Lumber DOL=	=1.60 pl	ate grip						
REACTIONS	(size)	2=13-0-0	12=13-0-0 14=13-0	-0	DOL=1.60									
	(0120)	15=13-0-0	16=13-0-0 17=13-	0-0 3)	Truss desigr	ed for wind loads i	n the pl	ane of the tru	SS					
		18=13-0-0), 19=13-0-0, 20=13-	0-0	only. For stu	ids exposed to win	d (norm	al to the face),					
	Max Horiz	2=98 (LC	11)		see Standar	d Industry Gable Ei	nd Deta	ils as applica	ble,					
	Max Uplift	2=-81 (LC	(LC 12), 12=-81 (LC 12)). n	or consult qu	ialified building des	igner a	s per ANSI/11	- 11.					
		14=-3 (LC	8), 15=-44 (LC 12),	4)	Building Des	ligner / Project engl	heer re	sponsible for	dina					
		16=-17 (L	.C 12), 18=-17 (LC 12	2),	requirement	s specific to the use	of this		aung					
		19=-44 (L	C 12), 20=-1 (LC 9)	5)	All plates are	3 5 5 4 (II) MT20 11		thorwise	ient.					
	Max Grav	2=195 (L	C 1), 12=195 (LC 1),	3)	indicated	5 1.5X4 () WI 20 U	11633 0	uieiwise						
		14=135 (l	_C 18), 15=92 (LC 18	3), ₆₎	Gable requir	es continuous hotto	om choi	d bearing						
		16=104 (l	_C 24), 17=89 (LC 17	7), 7)	Gable studs	spaced at 1-4-0 oc		a boaring.						
		18=106 (l	_C 17), 19=91 (LC 17	⁷), ¹ , 8)	This truss ha	is been designed for	ora 10	0 psf bottom						
		20=132 (l	_C 1)	0)	chord live loa	ad nonconcurrent w	vith anv	other live loa	ds.					
FORCES	(lb) - Max	timum Corr	pression/Maximum	9)	* This truss h	has been designed	for a liv	e load of 20.0	Dosf					
	Tension			-,	on the bottor	n chord in all areas	where	a rectangle						
TOP CHORD	1-2=0/45,	, 2-4=-78/6	6, 4-5=-58/49,		3-06-00 tall b	oy 2-00-00 wide wil	l fit betv	veen the botte	om					
	5-6=-48/1	01, 6-7=-7	0/149, 7-8=-70/149,		chord and ar	ny other members.							This item ha	as been
	8-9=-47/1	01, 9-10=-	31/39, 10-12=-73/40	, 10) Provide mec	hanical connection	(by oth	ers) of truss t	0				digitally sign	ned and
	12-13=0/4	45			bearing plate	e capable of withsta	anding 8	31 lb uplift at j	oint				sealed by F	binger Joseph PF
BOT CHORD	2-20=-51	/133, 19-20)=-51/133,		2, 81 lb uplift	t at joint 12, 17 lb u	plift at j	oint 18, 44 lb	uplift				on the date	indicated here
	18-19=-5	1/133, 17-1	8=-51/133,		at joint 19, 1	Ib uplift at joint 20,	17 lb u	plift at joint 16	6, 44					indicated here.
	16-17=-5	1/133, 15-1	6=-51/133,		lb uplift at joi	nt 15, 3 lb uplift at j	oint 14	81 lb uplift a	t				Printed copi	es of this
	14-15=-5	1/133, 12-1	4=-51/133		joint 2 and 8	1 lb uplift at joint 12	2.						document a	re not considered
WEBS	7-17=-91	/17,6-18=-	78/76, 5-19=-69/101	[,] 11) This truss de	sign requires that a	a minim	um of 7/16"					signed and	sealed and the
	4-20=-96/	/93, 8-16=- 5/02	/0///, 9-15=-/0/101	1, structural wood sheathing be applied directly to the top signature must be varifi							ust he verified			
	10-14=-9	0/92			chord and 1/	2" gypsum sheetro	ck be a	pplied directly	/ to				on onvoice	trania agnica
NOTES					the bottom c	hord.							on any elec	tronic copies.
1) Unbalance	ed roof live l	loads have	been considered for	LC	DAD CASE(S)	Standard								
this desig	٦.												Joseph Ebinger PE No. MiTek Inc. DBA MiTek 16023 Swingley Ridge R Date:	98947 USA FL Cert 6634 .oad, Chesterfield, MO 63017

May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME			
24-0602-A1	T-29	Common Structural Gable	1	1	Job Reference (optional)	T37314140		

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:16 ID:7hLHS7s40GUI65uI6iHgXEyHco0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





		13-1-8		
1	9-8-0	12-7-12	19-4-0	1
	9-8-0	2-11-12	6-2-8	
		0-5-12		

Scale = 1:76.5 Plate Offsets (X, Y): [2:0-2-0,0-1-8], [15:0-1-12,0-1-15]

-				-		1										
Loading		(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)		20.0	Plate Grip DOL	1.25		TC	0.35	Vert(LL)	-0.14	22-31	>999	360	MT20	244/190		
TCDL		7.0	Lumber DOL	1.25		BC	0.48	Vert(CT)	-0.29	22-31	>531	240				
BCLL		0.0*	Rep Stress Incr	YES		WB	0.14	Horz(CT)	0.01	20	n/a	n/a				
BCDL		10.0	Code	FBC2)23/TPI2014	Matrix-AS		Wind(LL)	-0.02	22-31	>999	240	Weight: 132 lb	FT = 20%		
LUMBER	0.4 00 1			1	NUIES	reaf live leads he		a a sa a i da sa a di	~ -							
TOP CHORD	2X4 SP N	0.1			this design	roor live loads ha	ve been o	considered id	or							
BUT CHURD	2X4 SP N	0.1			Wind ASCE	7-22. \/ult=130m	nh (3-60)	cond quet)								
OTHERS	2x4 SF N	0.2			Vasd=101m	h^{-} TCDI =4 2psf	BCDI = 6	0 nsf h = 25 f	t.							
BRACING	244 01 14	0.2			B=45ft; L=24	Ift; eave=4ft; Cat.	II; Exp B	; Enclosed;	-,							
	Structura	wood she	athing directly applied	Ч	MWFRS (dir	ectional) and C-C	Zone3 -	1-6-0 to 1-6-0	0,							
BOT CHORD	Rigid ceil	ing directly	annlied	u.	Zone1 1-6-0	to 9-8-0, Zone2 9	9-8-0 to 1	3-8-0, Zone1	1							
JOINTS	1 Brace a	at .lt(s) · 24	applied.		13-8-0 to 20-	-10-0 zone; cantil	ever left a	and right								
001110	25. 27				exposed ; en	nd vertical left and	l right exp	osed;C-C fo	or							
REACTIONS	(size)	2=0-6-0 1	5=6-10-0 17=6-10-0	n	members an	d forces & MWFF	RS for rea	ctions show	n;							
	(0.20)	18=6-10-0	. 19=6-10-0. 20=6-1	0-0.	Lumber DOL	=1.60 plate grip I	DOL=1.60)								
		21=0-3-8	,,,	,	 I russ design 	ed for wind loads	s in the pl	ane of the tru	uss							
	Max Horiz	2=140 (LC	C 11)		only. For Sil	las exposea lo wi	Ina (norm End Data	al to the lace	e), blo							
	Max Uplift	2=-98 (LC	12), 15=-58 (LC 12)),	see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPL1											
		17=-15 (L	C 8), 19=-52 (LC 12)),	1) Building Des	ianner / Proiect en	aineer re	sponsible for	r r							
		21=-149 (LC 3)		verifying applied roof live load shown covers rain loading											
	Max Grav	2=589 (LC	C 1), 15=189 (LC 24)	,	requirements specific to the use of this truss component.											
		17=154 (L	.C 24), 18=266 (LC 1	I),	5) All plates are	e 1.5x4 () MT20	unless o	therwise								
		19=308 (L	.C 1), 20=211 (LC 3)	,	indicated.											
		21=-46 (L	C 9)		6) Gable studs	spaced at 1-4-0 c	DC.									
FORCES	(Ib) - Max	imum Com	pression/Maximum	-	This truss hat	as been designed	for a 10.0) psf bottom								
		2 2 610/	100 2 5 405/00		chord live loa	ad nonconcurrent	with any	other live loa	ads.				This itom ha	s hoon		
TOP CHORD	1-2=0/45	2-3=-010/ //6_6.7_ 2	108, 3-3=-403/80,	;	This truss h	has been designe	d for a liv	e load of 20.	.0psf					S DEEL		
	8-9280	40, 0-7	70/30, 7-0=-274/03, 288/14 10-11205/(n	on the bottor	n chord in all area	as where	a rectangle					digitally sign	ed and		
	11-12=-7		-38/99 13-15=-78/1	0, 07	3-06-00 tall t	by 2-00-00 wide w	vill fit betv	veen the bott	tom				sealed by El	binger, Joseph, PE		
	15-16=0/	45		.,	Chord and ar	bonical connection	ó. An (hu oth	oro) of truco	to				on the date i	indicated here.		
BOT CHORD	2-22=0/5	26, 21-22=-	3/106, 20-21=-3/106	i. :	bearing plate	canable of withe	tandina C	B lb unlift at	ioint				Printed copie	es of this		
	19-20=-9	6/132, 18-1	9=-96/132,		2 58 lb unlift	t at joint 15 52 lb	unlift at i	hint 19 15 lb	unlift				document a	re not considered		
17-18=-96/132, 15-17=-96/132								i8 lb uplift at	ioint				signed and a	collod and the		
WEBS	22-27=0/2	277, 7-27=-	1/275, 22-28=0/288,		15.								signed and sealed and the			
	25-28=0/	309, 25-26=	=0/327, 11-26=0/296	,	10) This truss design requires that a minimum of 7/16" Signature must be ve								ust be verified			
	3-22=-21	2/78, 6-23=	-18/18, 8-24=-56/47,	,	structural wo	od sheathing be	applied d	irectly to the	top				on any elect	ronic copies.		
	9-25=-58/58, 10-26=-236/41, 19-26=-304/75,					2" gypsum sheeti	rock be a	pplied directl	ly to							
12-18=-251/2, 13-17=-99/55, 5-23=-129/104,				104,	the bottom chord. Joseph Ebinger, PE No.98947 MITTE Inc. PRANTER USA / Eff. Cert 6614								98947 ISA FL Cert 6634			
	23-27=-1	57/114, 24- 55/118-20	21=-133/103, 28198/178	I	OAD CASE(S)	Standard							16023 Swingley Ridge Ro	ad, Chesterfield, MO 63017		
	24-28=-155/118, 20-28=-198/148												Date:			

May 14,2025

Page: 1



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	Т-30	Common	4	1	Job Reference (optional)	T37314141

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:16 ID:HOrFBeuV99rJHrl4fryTCcyI_WK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





	1	9-8-0	19-4-0	1
	Г	9-8-0	9-8-0	1
Scale = 1:70.7				
Plate Offsets (X, Y); [2:0-6-0.0-0-6], [6:0-6-0.0-0-6]				

	, 1										-	
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 7.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC2023/TPI20	CSI TC BC WB 114 Matrix-A	0.30 0.59 0.17 AS	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.12 -0.26 0.02 0.03	(loc) 7-10 7-10 6 7-10	l/defl >999 >910 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 92 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD 2 BOT CHORD 2 WEBS 2 BRACING TOP CHORD BOT CHORD REACTIONS (S M M EODCES	2x4 SP No.1 2x4 SP No.1 2x4 SP No.2 Structural wood she Rigid ceiling directly ize) 2=0-6-0, (lax Horiz 2=142 (LC lax Uplift 2=-133 (L lax Grav 2=799 (LC	athing directly applie • applied. 6=0-6-0 C 11) C 12), 6=-75 (LC 12) C 1), 6=712 (LC 1)	6) Provic bearin 6 and 7) This tr structu d. chord the bo LOAD CA	le mechanical cc g plate capable 133 lb uplift at jc uss design requ ural wood sheath and 1/2" gypsun ttom chord. SE(S) Standar	onnection (by oth of withstanding 7 bint 2. ires that a minim ning be applied d n sheetrock be a rd	ers) of truss t 75 lb uplift at j ium of 7/16" irectly to the t pplied directly	o oint op to					
TOP CHORD BOT CHORD WEBS NOTES 1) Unbalanced this design. 2) Wind: ASCE Vasd=101m	Tension 1-2=0/45, 2-3=-978/ 4-5=-760/181, 5-6=- 2-7=-108/787, 6-7=- 4-7=-61/556, 5-7=-2 roof live loads have 7-22; Vult=130mph ph; TCDL=4.2psf; B	198, 3-4=-759/166, 984/213 99/796 92/164, 3-7=-281/15 been considered for (3-second gust) CDL=6.0psf; h=25ft;	9									

Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-8-0, Zone2 9-8-0 to 13-10-15, Zone1 13-10-15 to 19-4-0 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

- Building Designer / Project engineer responsible for 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.
 5) * This truss has been designed for a live load of 20.0psf
- 5) I his truss has been designed for a live load of 20.0ps 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.

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Page: 1

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Date:

May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-31	Common Girder	1	2	Job Reference (optional)	T37314142

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:16 ID:q9wh4rPgleismCRcLsmII8yHxgv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff





	7-8-12	11-7-4	19-4-0	
Scale = 1:70.7	7-8-12	3-10-8	7-8-12	

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

unless otherwise indicated.

Loading TCLL (roof) TCDL BCLL	(psf) 20.0 7.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 NO		CSI TC BC WB	0.91 0.88 0.53	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.20 -0.36 0.05	(loc) 9-12 9-12 8	l/defl >999 >637 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code	FBC202	3/TPI2014	Matrix-MS		Wind(LL)	0.14	9-12	>999	240	Weight: 257 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD	2x4 SP No.1 2x6 SP 2400F 2.0E 2x4 SP No.2 Structural wood she 2-11-6 oc purlins. Rigid ceiling directly bracing. (size) 2=0-6-0, 8 Max Horiz 2=142 (LC Max Uplift 2=-709 (L Max Grav 2=4230 (I (lb) - Maximum Com Tension 1-2=0/45, 2-3=-7193 4-5=-6957/1210, 5-6 6-7=-7656/1140, 7-6 2-10=-926/6052, 9-1 8-9=-935/6718	athing directly applied applied or 10-0-0 oc 3=0-6-0 C 7) C 8), 8=-666 (LC 8) LC 13), 8=-5610 (LC 1 pression/Maximum 0/1177, 3-4=-7049/11 5=-7477/1186, 5=-8884/1171 0=-641/4924,	3) 4) 4) 4) 5) 6) 4) 7) 57, 8) 9)	Unbalanced I this design. Wind: ASCE Vasd=101mp B=45ft; L=24 MWFRS (dire end vertical Ik plate grip DO Building Desi verifying appl requirements This truss ha chord live loas * This truss ha on the bottom 3-06-00 tall b chord and an Provide mech bearing plate 8 and 709 lb Use MiTek H	roof live loads have 7-22; Vult=130mph h; TCDL=4.2psf; B ft; eave=4ft; Cat. II; ectional); cantilever eft and right expose L=1.60 gner / Project engin ied roof live load sl specific to the use s been designed for d nonconcurrent w as been designed for d nonconcurrent w as been	been of CDL=6 CDL=6 Exp B left and ed; Lum neer re- hown co of this of this of a liv where fit betw (by oth nding 6	considered fo ond gust) .0psf; h=25ft; Enclosed; d right expose ber DOL=1.6 sponsible for overs rain loa truss compor) psf bottom other live loa e load of 20.0 a rectangle reen the botto ers) of truss t 66 lb uplift at	r ed; 30 ding hent. ds. opsf om o joint					
 VVEBS NOTES 2-ply truss (0.131"x3" Top chord oc. Bottom ch staggered Web conn Except me All loads a except if n CASE(S) s provided to 	5-9=-631/4858, 5-10 4-10=-50/173, 6-9=- 7-9=-584/138 is to be connected toge i) nails as follows: s connected as follows: s connected as follows: ords connected as follows: ords connected as follows: ected as follows: 2x4 - ember 4-10 2x4 - 2 row irre considered equally oted as front (F) or ba section. Ply to ply conr o distribute only loads	 b95/3276, 50/258, 3-10=-225/10 ther with 10d c: 2x4 - 1 row at 0-9-0 ows: 2x6 - 2 rows 1 row at 0-9-0 oc, vs staggered at 0-9-0 applied to all plies, ck (B) face in the LO/ bections have been noted as (F) or (B), 	05, 10) 11) LO 1) oc.	6-16d nails in max. starting connect truss) Use MiTek JI 1-1/2 nails in left end to co chord, skewe down.) Fill all nail ho AD CASE(S) Dead + Roc Plate Increa Uniform Loa Vert: 1-5= Concentrate Vert: 10= 16=-1021	to Truss) or equiva at 7-8-12 from the (es) to back face of 24 (With 4-10d na to Truss) or equiva nect truss(es) to b d 0.0 deg.to the rig les where hanger is Standard f Live (balanced): I se=1.25 tds (Ib/ft) =-54, 5-8=-54, 2-8= ed Loads (Ib) -2795 (B), 9=-1023 (B), 17=-1389 (B)	alent sp left end f bottor ils into lent at - pack fac jht, slop s in cor _umber 20 s (B), 15 , 18=-49	aced at 2-0-0 It to 15-8-12 th n chord. Girder & 2-10 I7-8-12 from the of bottom ing 0.0 deg. tact with lum Increase=1.2 i=-1023 (B), 03 (B)	oc o dd x the ber. 25,				This item has digitally sign sealed by Et on the date i Printed copie document ar signed and s signature mu on any electri Joseph Ebinger PE No.9	s been ed and binger, Joseph, PE ndicated here. es of this e not considered sealed and the ust be verified ronic copies.

16023 Swingley Ridge Road, Chesterfield, MO 63017 Date:

May 14,2025

Page: 1



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-32	Common Girder	1	2	Job Reference (optional)	T37314143

Scale = 1:48.4

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:16 ID:P?Cd400FXHSVuoqE5I5Y94yHygB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



3-7-7	6-6-0	9-4-9	13-0-0
3-7-7	2-10-9	2-10-9	3-7-7

Plate Offsets (X, Y):	[1:0-4-1,0-1-8], [3:0-4-1,0-1-8], [5:0-5-8,Edge], [6:0-4-4,0-1-8], [7:0-3-0,0-0-8]

						-							
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25		TC	0.52	Vert(LL)	-0.06	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25		BC	0.74	Vert(CT)	-0.10	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	NO		WB	0.38	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code	FBC20	23/TPI2014	Matrix-MS		Wind(LL)	0.04	6-7	>999	240	Weight: 154 lb	FT = 20%
			4	Wind ASCE	7-22: Vult=130m	nph (3-sec	ond aust)						
TOP CHORD	2v4 SP No 1			Vasd=101mm	ph: TCDL=4.2psf	: BCDL=6	.0psf: h=25ft	:					
BOT CHORD	2x6 SP No 1			B=45ft: L=24	ft: eave=4ft: Cat	II: Exp B	Enclosed:	,					
WEBS	2x4 SP No 2			MWFRS (dir	ectional); cantilev	ver left and	right expos	ed ;					
BRACING				end vertical I	eft and right expo	osed; Lum	ber DOL=1.	60					
TOP CHORD	Structural wood she	athing directly applie	ad or	plate grip DC	DL=1.60								
	5-0-5 oc purlins	ating uncerty applie	5) Building Des	igner / Project er	ngineer res	sponsible for						
	Rigid ceiling directly	applied or 10-0-0 or	•	verifying app	lied roof live load	d shown co	overs rain loa	ading					
	bracing			requirements	s specific to the u	use of this	truss compo	nent.					
REACTIONS	(size) 1=0-6-0 3	3=0-6-0	6) This truss ha	is been designed	for a 10.0) psf bottom						
	Max Horiz 1-100 (I	C 6)		chord live loa	ad nonconcurrent	t with any	other live loa	ids.					
	Max 1 Inlift 1-594 (L	C 8) 3307 (I C 8)	7) * This truss h	nas been designe	ed for a liv	e load of 20.	0psf					
	Max Opint 1= 004 (E Max Grav 1-4171 (I	C(13) = 307 (EC 0)	14)	on the bottor	n chord in all are	as where	a rectangle						
			14)	3-06-00 tall b	by 2-00-00 wide v	will fit betw	een the bott	om					
FURCES	(ID) - Maximum Com	pression/waximum	0	chord and ar	iy other member	S.							
		- 2477/575 2 4-0/4	5 8) Provide mec	nanical connection	on (by oth	ers) of truss	lO Linint					
	17 - 707/509, 2-3 - 707/509, 2-3 - 707/5009, 67 - 7009, 67 - 7009, 67 - 7009, 67 - 7009, 67 - 7009, 67 - 7009, 67 - 7009, 67 - 7009, 67 - 7009, 67 - 7009, 67 - 7009, 67 - 7009, 67 - 7009, 67 - 7009, 67 - 7009, 67 - 7009, 67 - 7009, 67 - 7009, 67 - 7009, 67 - 7009, 700	- 400/2007	5	1 and 207 lb	uplift of joint 2	stanuing 5	94 ib upilit a	Joint					
BOT CHORD	5-6100/3007 3-5-		0		upiint at joint 3.	16d poile i	to Cirdor 8						
WEBS	2-6-415/2399 2-7-	-516/3651 2-541	7/149	6-16d pails in	oto Truss) or equ	ivalent en	aced at 2-0-() 00					
NOTEO	2 0= 410/2000, 2 1-	- 510/5051, 2 5- 41	//145	may starting	10 1103) of equ	e left end	5-3-4 to	000					
		the second devices		connect truss	s(es) to back face	e of hottor	n chord						
1) 2-ply trus	s to be connected toge	ther with 10d	1	0) Fill all nail ho	les where hange	er is in con	tact with lum	ber					
	de connected as follows.	2 2 x 4 1 row at 0 0	∧ I		Standard								
		5. 2.14 - 1 10w at 0-9-	·U L		of Live (balanced	I): Lumbor	Increase-1	25				This item ha	s been
Bottom d	hords connected as foll	owe: 2x6 - 2 rowe	· ·	Plate Increa	ase-1 25		increase=1.	23,				digitally sign	ed and
standerer	d at 0-4-0 oc	0W3.2X0 210W3			ads (lb/ft)							sealed by Fr	pinger losenh PE
Web con	nected as follows: 2x4 -	1 row at 0-9-0 oc		Vert: 1-2	=-54 2-4=-54 1-	3=-20							ndiastad bara
2) All loads	are considered equally	applied to all plies		Concentrate	ed Loads (lb)	0-20							nuicaleu nere.
except if	noted as front (F) or ba	ck (B) face in the LO	DAD	Vert: 7=-	1023 (B) 12=-10)23 (B) 13	=-2888 (B)					Printed copie	es of this
CASE(S)	section. Ply to ply conr	nections have been		von. 7=	1020 (2), 12-10	20 (0), 10	= 2000 (D)					document ar	e not considered
provided	to distribute only loads	noted as (F) or (B),										signed and s	sealed and the
unless ot	herwise indicated.	., .,										cignoturo m	ist ha varified

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

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Page: 1

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Date

May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	Т-33	Common	4	1	Job Reference (optional)	T37314144

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:17 ID:gARJmlQLBlo3HqkBVsz8OXzmFqa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





				L	6-6-0			13-0-	0		4			
Scale = 1:48.4				1	6-6-0			6-6-0)		1			
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25		тс	0.26	Vert(LL)	-0.04	6-12	>999	360	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25		BC	0.29	Vert(CT)	-0.07	6-12	>999	240			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.07	Horz(CT)	0.01	4	n/a	n/a			

Wind(LL)

0.03

6-12

>999

240

Weight: 55 lb

FT = 20%

LUMBER		
TOP CHORD	2x4 SP N	o.1
BOT CHORD	2x4 SP N	o.1
WEBS	2x4 SP N	0.2
BRACING		
TOP CHORD	Structura	wood sheathing directly appli
BOT CHORD	Rigid ceili	ing directly applied.
REACTIONS	(size)	2=0-6-0, 4=0-6-0
	Max Horiz	2=105 (LC 11)
	Max Uplift	2=-104 (LC 12), 4=-104 (LC
	Max Grav	2=562 (LC 1), 4=562 (LC 1)
FORCES	(lb) - Max Tension	imum Compression/Maximum
TOP CHORD	1-2=0/45, 4-5=0/45	2-3=-572/165, 3-4=-572/165,

10.0

Code

2-6=0/407. 4-6=0/407 BOT CHORD

WFBS 3-6=0/293

NOTES

BCDL

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-6-0, Zone2 6-6-0 to 10-8-15, Zone1 10-8-15 to 14-6-0 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 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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 2 and 104 lb uplift at joint 4.

Matrix-AS

This truss design requires that a minimum of 7/16" 7) structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

FBC2023/TPI2014

applied.

(LC 12)

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Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	T-34	Common Supported Gable	1	1	Job Reference (optional)	T37314145

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:17 ID:_nOB8RbRpopjP9TSFpWrEZyI_Wi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

13-0-0

Page: 1



Scale = 1:45.7		
Plate Offsets (X, Y):	[2:0-1-12.0-1-15], [12:0-1-12.0-1-15]	

	(,, ,). [2.0 1 12,0	1 10]; [12:0 1 12;0 1	10]										
Loading TCLL (roof) TCDL BCLL BCDL	(psf 20.0 7.0 0.0 10.0) Spacing Plate Grip DOL Lumber DOL 0* Rep Stress Incr 0 Code	2-0-0 1.25 1.25 YES FBC202	23/TPI2014	CSI TC BC WB Matrix-AS	0.12 0.03 0.03	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 24	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 77 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.1 2x4 SP No.1 2x4 SP No.2 Structural wood : Rigid ceiling dire (size) 2=13- 15=13 18=13 Max Horiz 2=98 (Max Uplift 2=-81 14=-3 16=-1 19=-4 Max Grav 2=195 14=13 16=10 18=10 20=13	sheathing directly appl ctly applied. 0-0, 12=13-0-0, 14=13 -0-0, 16=13-0-0, 17=1 -0-0, 19=13-0-0, 20=1 (LC 11) (LC 12), 12=-81 (LC 1 (LC 8), 15=-44 (LC 12), 12=-17 (LC 4 (LC 12), 20=-1 (LC 9 - (LC 1), 12=195 (LC 12), 17=89 (LC 6 (LC 17), 19=91 (LC 2 (LC 1))	2) lied. -0-0, 3) 3-0-0, 3) 3-0-0 2), 4) 12), 5) 12), 5) 18), 6) 17), 7) 17), 8)	Wind: ASCE Vasd=101m B=45ft; L=24 MWFRS (dii left and righ exposed;C-(reactions sh DOL=1.60 Truss design only. For st see Standar or consult qi Building Des verifying app requirement All plates an indicated. Gable requii Gable studs This truss h	57-22; Vult=130m ph; TCDL=4.2psf; 4ft; eave=2ft; Cat. rectional) and C-C t exposed ; end ve C for members and own; Lumber DOL ned for wind loads uds exposed to wi d Industry Gable F ualified building de signer / Project en olied roof live load s specific to the us e 1.5x4 () MT20 res continuous bot spaced at 1-4-0 of as been designed	ph (3-sec BCDL=6 II; Exp B Zone3 z rtical left d forces a = 1.60 pl in the pl nd (norm End Deta signer re shown c se of this unless o tom chor ic. for a 10.0	ond gust) .0psf; h=25ft; Enclosed; one; cantileve and right & MWFRS for the grip ane of the tru; al to the face; ils as applicat s per ANSI/TF sponsible for overs rain loa truss compor herwise d bearing. D psf bottom	er ss , ble, Pl 1. ding hent.					
FORCES	(lb) - Maximum (Tension	Compression/Maximum	י 9)	* This truss	has been designed m chord in all area	d for a liv	e load of 20.0)psf					
TOP CHORD	1-2=0/45, 2-4=-7 5-6=-48/101, 6-7 8-9=-47/101, 9-1 12-13=0/45	8/66, 4-5=-58/49, =-70/149, 7-8=-70/149 0=-31/39, 10-12=-73/4	9, 40, 10	3-06-00 tall chord and a) Provide med bearing plat	by 2-00-00 wide w ny other members chanical connectio	n (by oth	ers) of truss to	om o pint				This item hadigitally sign	is been led and binger Jeseph DC
BOT CHORD	2-20=-51/133, 19 18-19=-51/133, 1 16-17=-51/133, 1 14-15=-51/133, 1 7-17=-91/17, 6 1	9-20=-51/133, 17-18=-51/133, 15-16=-51/133, 12-14=-51/133 878/76_5-1969/10)1	2, 81 lb uplif at joint 19, 1 lb uplift at jo joint 2 and 8	t at joint 12, 17 lb lb uplift at joint 20 int 15, 3 lb uplift at 1 lb uplift at joint 1	uplift at jo), 17 lb u t joint 14,	bint 18, 44 lb blift at joint 16 81 lb uplift at	uplift 6, 44				on the date Printed copi document a	indicated here. es of this re not considered
NOTES	4-20=-96/93, 8-1 10-14=-95/92	6=-76/77, 9-15=-70/10)1, 11	 I his truss de structural we chord and 1 the bottom of 	esign requires that bod sheathing be a /2" gypsum sheetr chord.	a minim applied d ock be a	um of 7/16" rectly to the t oplied directly	op ' to				signed and signature m on any elect	sealed and the ust be verified ronic copies.
1) Unbalance this design	ed roof live loads ha	ave been considered fo	or Lo	DAD CASE(S)	Standard							Joseph Ebinger PE No.	98947

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	UT-1	Roof Special	2	1	Job Reference (optional)	T37314146

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:17 ID:2me49CxECZh7onk5RmvZQ1zHIMF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





						20-1-8
1	5-5-4	1	10-0-9	12-6-6	19-5-0	
	5-5-4	1	4-7-5	2-5-14	6-10-10	
						0-8-8

Scale = 1:72.2 Plate Offsets (X, Y): [2:0-6-5,0-3-4], [15:0-3-5,Edge]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25		тс	0.41	Vert(LL)	-0.09	18-19	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25		BC	0.42	Vert(CT)	-0.16	18-19	>999	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.14	Horz(CT)	0.05	16	n/a	n/a		
BCDL	10.0	Code	FBC202	3/TPI2014	Matrix-AS		Wind(LL)	0.08	18-19	>999	240	Weight: 125 lb	FT = 20%
LUMBER			1)	Unbalanced	roof live loads hav	e been o	considered fo	or					
TOP CHORD	2x4 SP No.1 *Excep	ot* 10-16:2x6 SP No.1	0)	this design.	7.00.1/	L (0							
BOT CHORD	2x4 SP No.1		2)	Wind: ASCE	7-22; Vuit=130mp		Cond gust)						
WEBS	2x4 SP No.2				ft: opvo=4ft: Cot I		.0psi, n=25it,	,					
UTHERS	2X4 SP NO.2			MWFRS (dire	ectional) and C-C	7.00e3 -	1-6-0 to 1-8-1	3					
BRACING	Other strengt was a disk a	a th in a shine a the same line		Zone1 1-8-13	3 to 12-8-2. Zone2	12-8-2	to 16-8-2. Zo	ne1					
TOP CHORD	Structural wood she	athing directly applied	1.	16-8-2 to 19-	10-12 zone; cantil	ever left	and right						
	1 Broos at It(a): 20	applied.		exposed ; en	d vertical left and i	right exp	osed;Č-C for	r					
		10 0 5 0		members and	d forces & MWFRS	S for rea	ctions shown	ı;					
REACTIONS	(SIZE) Z=0-6-0,	0=0-0-8		Lumber DOL	=1.60 plate grip D	OL=1.60)						
	Max Holiz $2=103$ (LO	0) 0 2) 16_ 75 (0 2) 3)	Truss design	ed for wind loads i	n the pl	ane of the tru	SS					
	Max Gray 2-826 (L	(12), 10=75 (1012))	only. For stu	ds exposed to win	d (norm	al to the face	e),					
FORCES				see Standard	Industry Gable E	nd Deta	ils as applicat	ble,					
FURCES	(ID) - Maximum Con	ipression/iviaximum	4)	Building Doc	anned building des	inoor ro	s per ANSI/Tr	PLI.					
TOP CHORD	1-2=0/30 2-4=-1955	5/400 4-5=-1956/420	4)	verifying app	lied roof live load	shown c	overs rain los	nding					
	5-6=-1247/283. 6-7=	=-1219/297.		requirements	specific to the use	e of this	truss compor	nent					
	7-8=-1217/307, 10-1	11=-822/283,	5)	All plates are	1.5x4 () MT20 u	inless o	therwise						
	11-12=-867/257, 12	-13=-898/235,	,	indicated.									
	13-14=-938/212, 14	-15=-973/233,	6)	Gable studs	spaced at 1-4-0 oc								
	15-16=-400/126, 8-9	9=-953/299,	7)	This truss ha	s been designed f	or a 10.0) psf bottom						
	9-10=-859/289			chord live loa	ad nonconcurrent w	vith any	other live loa	ids.					
BOT CHORD	2-26=-322/1870, 25	-26=-322/1870,	8)	* This truss h	as been designed	for a liv	e load of 20.0	Opsf				This itom ha	s hoon
	24-25=-322/1870, 2	3-24=-322/1870,		on the botton	n chord in all areas	s where	a rectangle						
	22-23=-166/1137, 2	1-22=-166/1137,		3-06-00 tall b	y 2-00-00 wide wi	l fit betv	veen the botto	om				digitally sign	ed and
	20-21=-79/757, 19-2	20=-79/757, 1879/757	0)	Chord and an	iy other members.	naralla	to grain valu					sealed by Et	binger, Joseph, PE
	15-17=-135/757	10=-79/757,	9)	Lising ANSI/T	PI 1 angle to grain	formul	a Building	le				on the date i	ndicated here.
WEBS	5-25=-78/331. 5-30=	=-773/179.		designer sho	uld verify capacity	of bear	ing surface					Printed copie	es of this
	29-30=-745/154, 28	-29=-751/163,	10)	Provide mecl	hanical connection	(by oth	ers) of truss t	to				document a	e not considered
	23-28=-773/169, 10	-21=-164/603,	- /	bearing plate	capable of withsta	anding 7	'5 lb uplift at j	oint				signed and s	ealed and the
	8-23=-10/332, 8-27=	=-654/161,		16 and 143 ll	o uplift at joint 2.	0						signed and s	ist he verified
	21-27=-578/129, 9-2	27=-29/108,	11)	This truss de	sign requires that	a minim	um of 7/16"					signature mu	
	22-27=-20/28, 7-28=	=-67/19, 6-29=-25/32,	-	structural wo	od sheathing be a	pplied d	rectly to the t	top				on any elect	ronic copies.
	24-30=-89/76, 4-26=	=-132/56, 11-20=-17/4	5,	chord and 1/2	2" gypsum sheetro	ock be a	pplied directly	y to					
	12-19=-15/36, 13-18	3=0/40, 14-17=0/35		the bottom cl	nord.							Joseph Ebinger PE No. 9 MiTek Inc. DBA MiTek U	8947 SA FL Cert 6634
NOTES			LO	AD CASE(S)	Standard							16023 Swingley Ridge Ro Date:	ad, Chesterfield, MO 63017

May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	UT-2	Roof Special	3	1	Job Reference (optional)	T37314147

-1-6-0

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:18 ID:yI5P7nEYfL7n5CAxdqDRDizHIBX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



	5-5-4	9-11-0	12-3-4	19-5-0	24-10-0	_
Scale = 1:72.7	5-5-4	4-5-12	2-4-4	7-1-12	5-5-0	1

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

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25		TC	0.80	Vert(LL)	-0.63	9-17	>472	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25		BC	0.57	Vert(CT)	-1.19	9-17	>248	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES		WB	0.43	Horz(CT)	0.82	8	n/a	n/a		
BCDL	10.0	Code	FBC202	3/TPI2014	Matrix-AS		Wind(LL)	0.41	9-17	>715	240	Weight: 154 lb	FT = 20%
LUMBER			3)	Wind: ASCE	7-22: Vult=130mph	(3-sec	cond aust)						
TOP CHORD	2x4 SP No.1 *Excep	t* 5-8:2x6 SP 2400F	- /	Vasd=101mp	h; TCDL=4.2psf; B	CDL=6	.0psf; h=25ft;						
	2.0E			B=45ft; L=24	ft; eave=4ft; Cat. II;	Exp B	; Enclosed;						
BOT CHORD	2x4 SP No.1			MWFRS (dire	ectional) and C-C Z	one3 -	1-6-0 to 1-6-0	,					
WEBS	2x4 SP No.2			Zone1 1-6-0	to 12-5-0, Zone2 12	2-5-0 to	o 16-7-15, Zor	ne1					
LBR SCAB	5-8 SP 2400F 2.0E	one side		16-7-15 to 24	-8-8 zone; cantilev	er left a	and right						
BRACING				exposed ; en	d vertical left and ri	ght exp	osed;C-C for						
TOP CHORD	Structural wood she	athing directly applied		members and	forces & MWFRS	for rea	ctions shown	;					
BOT CHORD	Rigid ceiling directly	applied.		Lumber DOL	=1.60 plate grip DC	DL=1.60)						
REACTIONS	(size) 2=0-6-0.8	3=0-3-0	4)	Building Desi	gner / Project engir	neer re	sponsible for						
	Max Horiz 2=138 (LC	C 11)		verifying app	ied roof live load st	nown c	overs rain loa	iding					
	Max Uplift 2=-145 (L	C 12), 8=-93 (LC 12)	E)	All ploton oro	MT20 plotos uplos	or this	truss compor	ient.					
	Max Grav 2=1000 (L	.C 1). 8=931 (LC 1)	5)	This trues he	witzu plates unles		wise indicate	u.					
FORCES	(lb) - Maximum Com	pression/Maximum	0)	chord live los	d popconcurrent w	ith any	other live loa	de					
1011020	Tension	procolori/Maximum	7)	* This trues h	as been designed f	for a liv	e load of 20 (us. Inef					
TOP CHORD	1-2=0/26, 2-3=-2292	/447. 3-4=-1758/394.	''	on the botton	the chord in all areas	where	a rectandle	por					
	4-5=-1471/373, 5-6=	-1559/351,		3-06-00 tall b	v 2-00-00 wide will	fit betv	veen the botto	om					
	6-7=-3516/604, 7-8=	-493/202		chord and an	v other members.								
BOT CHORD	2-11=-229/2149, 10-	·11=-229/2149,	8)	Bearing at joi	nt(s) 8 considers p	arallel t	o grain value						
	9-10=-126/1617, 7-9	=-413/2426	,	using ANSI/T	PI 1 angle to grain	formula	a. Building						
WEBS	3-11=0/210, 3-10=-5	72/123, 4-10=-12/233	3,	designer sho	uld verify capacity of	of bear	ng surface.						
	5-9=-326/1623, 4-9=	-767/213, 6-9=-1356/	354 9)	Provide mech	nanical connection	(by oth	ers) of truss t	0					
NOTES			bearing plate capable of withstanding 93 lb uplift at joint										
1) Attached	15-1-10 scab 5 to 8, fro	ont face(s) 2x6 SP		8 and 145 lb	uplift at joint 2.							i nis item na	speen
		(0.4041,01) 1	10)	This trues do	cian requires that a	minim	um of 7/16"					digitally ciga	od ond

- 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 2-11-10 from end at joint 5, nail 2 row(s) at 7" o.c. for 2-11-14; starting at 6-9-10 from end at joint 5, nail 2 row(s) at 3" o.c. for 2-5-9.
- Unbalanced roof live loads have been considered for 2) this design.
- This truss design requires that a minimum of 7/16 structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

digitally signed and sealed by Ebinger, Joseph, 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.

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

May 14,2025



႔ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. WARNING - verify design parameters and READ NOTES ON THIS AND INCLOSED INTERNETING TO THE REFERENCE FOR UNITY TO THE INSTANCE OF THE ADDRESS OF THE ADDRESS

Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	UT-3	Roof Special	6	1	Job Reference (optional)	T37314148

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:18 ID:_TPYpGNKIXsFDE8u3sAxJEzHITQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



				20-1-8
5-5-4	9-11-0	12-3-4	19-5-0	
5-5-4	4-5-12	2-4-4	7-1-12	
				0-8-8

4)

chord live load nonconcurrent with any other live loads.

Plate Offsets (X, Y): [7:0-4-9,Edge]

			-											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 7.0 0.0* 10.0	Spacing 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-AS	0.22 0.31 0.23	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.06 -0.12 0.04 0.04	(loc) 10-11 9-17 8 10-11	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 105 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.1 *Excep 2x4 SP No.1 2x4 SP No.2 Structural wood shee Rigid ceiling directly (size) 2=0-6-0, 8 Max Horiz 2=106 (LC Max Uplift 2=-134 (L)	t* 5-8:2x6 SP No.1 athing directly applied applied. 3=0-5-8 C 11) C 12), 8=-77 (LC 12)	5) 6) 5. 7) 8)	* This truss h on the bottor 3-06-00 tall b chord and ar Bearing at jo using ANSI/I designer sho Provide mec bearing plate 8 and 134 lb This truss de	has been designed in chord in all areas by 2-00-00 wide will by other members. int(s) 8 considers p PI 1 angle to grain uld verify capacity hanical connection capable of withsta uplift at joint 2. sign requires that a	for a liv where I fit betw parallel t formula of beari (by oth unding 7 a minim	e load of 20.0 a rectangle veen the bott o grain value a. Building ng surface. ers) of truss t 7 lb uplift at j um of 7/16"	0psf com e to joint						
FORCES TOP CHORD BOT CHORD	Max Grav 2=820 (LC (lb) - Maximum Com Tension 1-2=0/26, 2-3=-1742 4-5=-911/285, 5-6=-4 7-8=-406/126 2-11=-264/1629, 10- 9-10=-151/1086, 7-9	C1), 8=735 (LC 1) pression/Maximum //359, 3-4=-1200/307 922/275, 6-7=-1116/3 .11=-264/1629, I=-193/937	, LC 322,	structural wo chord and 1/ the bottom cl DAD CASE(S)	od sheathing be ap 2" gypsum sheetro hord. Standard	oplied d ck be a	rectly to the oplied directly	top y to						
WEBS NOTES	3-11=0/211, 3-10=-5 5-9=-219/834, 4-9=-0 d roof live leads have	649/202, 4-10=-16/25 649/202, 6-9=-285/18	6, 35											
 Undatance this design (1) Undatance this design (2) Wind: ASC Vasd=101r B=45ft; L=2 MWFRS (c Zone1 1-6- 16-7-15 to exposed; (members a Lumber DC Building De verifying a requiremer Building De verifying a requiremer 	E roor live loads have E 7-22; Vult=130mph mph; TCDL=4.2psf; B(24ft; eave=4ft; Cat. II; lirectional) and C-C Z(0 to 12-5-0, Zone2 12 19-10-12 zone; cantile end vertical left and rig and forces & MWFRS DL=1.60 plate grip DO asigner / Project engin opplied roof live load sh hts specific to the use has been designed for	(3-second gust) CDL=6.0psf; h=25ft; Exp B; Enclosed; one3 -1-6-0 to 1-6-0, 2-5-0 to 16-7-15, Zone ever left and right ght exposed;C-C for for reactions shown; L=1.60 leer responsible for iown covers rain load of this truss compone a 10.0 psf bottom	e1 ling ent.									This item ha digitally sign sealed by El on the date i Printed copie document al signed and s signature me on any elect	s been ed and binger, Josej ndicated hei es of this re not consic sealed and th ust be verifie ronic copies	ph, PE re. lered he ed

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	MG-1	Monopitch Girder	1	1	Job Reference (optional)	T37314149

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:04 ID:n56e_guWmTRgeweCsoiikcyHyWW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:43.6

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

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25		TC	0.21	Vert(LL)	-0.02	7-9	>999	360	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25		BC	0.50	Vert(CT)	-0.04	7-9	>999	240			
BCLL	0.0*	Rep Stress Incr	NO		WB	0.35	Horz(CT)	0.01	6	n/a	n/a			
BCDL	10.0	Code	FBC2023	3/TPI2014	Matrix-MP		Wind(LL)	0.02	7-9	>999	240	Weight: 44 lb	FT = 20%	
BCLL BCDL IUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Wind: ASC Vasd=1011 B=45ft; L= MWFRS (c end verticz plate grip ID 2) Building D verifying al requirement 3) This truss chord live I	0.0* 10.0 2x4 SP No.1 2x6 SP No.1 2x4 SP No.2 Structural wood she 5-3-8 oc purlins, ex Rigid ceiling directly bracing. (size) 1=0-6-0, Max Horiz 1=160 (L Max Uplift 1=-146 (I Max Uplift 1=-146 (I Max Uplift 1=-146 (I Max Grav 1=1280 ((Ib) - Maximum Con Tension 1-2=-1371/152, 2-3: 3-6=-81/61 1-7=-170/1072, 6-7: 2-6=-1387/221, 2-7: CE 7-22; Vult=130mpf mph; TCDL=4.2psf; B 24ft; eave=4ft; Cat. II; directional); cantilever al left and right expose DOL=1.60 esigner / Project enging pplied roof live load sh nts specific to the use has been designed for load nonconcurrent w s has been designed	Rep Stress Incr Code eathing directly applie coept end verticals. 7 applied or 10-0-0 oc 6= Mechanical C 5) C 8), 6=-173 (LC 5) LC 1), 6=1143 (LC 1) apression/Maximum =-107/42, 3-4=-9/0, =-170/1072, 5-6=0/0 =-133/1355 a) (3-second gust) CDL=6.0psf; h=25ft; Exp B; Enclosed; left and right expose ad; Lumber DOL=1.6 meer responsible for hown covers rain loar of this truss compon r a 10.0 psf bottom ith any other live load for a live load of 20.0	NO FBC2022 6) 7) ed or 8) 9) LO 1)) ed ; 0 unit ding ient. ds. psf	3/TPI2014 Provide mec bearing plate 1 and 173 lb Use MiTek J 1-1/2 nails in max. starting connect truss Fill all nail he In the LOAD of the truss a AD CASE(S) Dead + Roo Plate Incree Uniform Loa Vert: 1:3 Concentrat Vert: 10=	WB Matrix-MP hanical connection capable of withs uplift at joint 6. .24 (With 4-16d to Truss) or equi at 1-0-12 from th s(es) to front face les where hange CASE(S) section re noted as front Standard of Live (balanced ise=1.25 ads (lb/ft) =-54, 3-4=-54, 1- ad Loads (lb) -636 (F), 11=-63	0.35 on (by oth standing 1 nails into (vivalent spa he left end e of bottom er is in con n, loads ap t (F) or bac 1): Lumber -5=-20 36 (F), 12=	Horz(CT) Wind(LL) ers) of truss 46 lb uplift a Girder & 2-1 to 5-0-12 to 1 chord. tact with lun oplied to the ck (B). Increase=1	0.01 0.02 to at joint 0 d x 0 oc 0 nher. face .25,	6 7-9	n/a >999	n/a 240	Weight: 44 lb This item ha digitally sign sealed by El on the date Printed copi document a signed and s	FT = 20% Is been led and binger, Josep indicated her es of this re not consid sealed and th ust be verifie	oh, PE re. ered ne
on the bott 3-06-00 ta	ll by 2-00-00 wide will	fit between the botto	m									on any elect	ronic copies.	
chord and 5) Refer to gi	any other members. rder(s) for truss to true	ss connections.										Joseph Ebinger PE No. MiTek Inc. DBA MiTek I	98947 ISA FL Cert 6634	

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Date:

May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	M-1	Jack-Closed	7	1	Job Reference (optional)	13/314150

-1-6-0

1-6-0

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:04 ID:IXKFr_c9Sgq0b1TKT5RWJGyHgHi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-0-0

2-0-0

2-0-0

2-0-0



i ug



Scolo	_	1	.21	6
Scale	=	1	:21	.o

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	0.19	Vert(LL)	0.00	4-7	>999	360	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	0.00	4-7	>999	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a			
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP		Wind(LL)	0.00	4-7	>999	240	Weight: 9 lb	FT = 20%	

LU	М	в	E	R
----	---	---	---	---

TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied or
	2-0-0 oc p	ourlins.
BOT CHORD	Rigid ceili	ng directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	2=0-6-0, 4= Mechanical
	Max Horiz	2=46 (LC 12)
	Max Uplift	2=-82 (LC 12), 4=-11 (LC 9)
	Max Grav	2=185 (LC 1), 4=46 (LC 3)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-2=0/26,	2-3=-102/35

BOT CHORD 2-4=-29/79

NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 2-0-0 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 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 chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 2 and 11 lb uplift at joint 4.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Ebinger, Joseph, 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.

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	J8V	Jack-Partial	2	1	Job Reference (optional)	T37314151

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:04 ID:IXtFwvIQK4HIbo6PLPFw2nyHyDJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:41.9

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

Loading		(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)		20.0	Plate Grip DOL	1.25		тс	0.41	Vert(LL)	-0.13	6-9	>729	360	MT20	244/190	
TCDL		7.0	Lumber DOL	1.25		BC	0.57	Vert(CT)	-0.26	6-9	>363	240			
BCLL		0.0*	Rep Stress Incr	YES		WB	0.09	Horz(CT)	0.01	2	n/a	n/a			
BCDI		10.0	Code	FBC202	3/TPI2014	Matrix-AS		Wind(LL)	-0.01	6-9	>999	240	Weight: 36 lb	FT = 20%	
	-		0000		0, 11 1201 1			(11)			1000	2.0	troigini oo ib		
LUMBER				6)	Bearing at jo	int(s) 2 considers p	oarallel t	o grain value	9						
TOP CHORD	2x4 SP No	o.2			using ANSI/1	PI 1 angle to grair	n formula	a. Building							
BOT CHORD	2x4 SP No	o.2			designer sho	uld verify capacity	of beari	ng surface.							
WEBS	2x4 SP No	o.2		7)	Provide mec	hanical connection	ı (by oth	ers) of truss	to						
BRACING					bearing plate	capable of withsta	anding 6	1 lb uplift at	joint						
TOP CHORD	Structural	wood she	athing directly applie	d.	4, 36 lb uplift	at joint 2 and 19 ll	b uplift a	it joint 5.							
BOT CHORD	Rigid ceili	na directly	applied	8)	This truss de	sign requires that	a minim	um of 7/16"							
REACTIONS	(size)	2=0-6-0 4	1= Mechanical 5-		structural wo	od sheathing be a	pplied d	irectly to the	top						
	(5120)	Mechanic	al		chord and 1/	2" gypsum sheetro	ock be a	oplied directly	y to						
	Max Horiz	2-194 (1 (2 12)		the bottom cl	hord.									
	Max I Inlift	236 (1 C	(12) 4 = -61 (1 C 12)	LC	AD CASE(S)	Standard									
		2=-30 (LO	(LO 12), 4=-01 (LO 12),												
	Max Grav	2-382 (10	(12)	-202											
		2=302 (LC (LC 17)	5 1), 4=30 (LO 17), 5	-202											
FORCES	(lb) Maxi		proceion/Maximum												
FORCES	(ID) - Waxi		pression/maximum												
	1-2-0/45	2-3474/	185 3-185/10												
	2 6_ 269/	2-3414/	77/6 <i>1</i>												
	2-0=-300/	424, J-0=-/ 221	21/04												
WEDS	5-0=-591/	004													
NOTES			(0 0)												
1) Wind: ASC	JE 7-22; Vul	It=130mph	(3-second gust)												
Vasd=101	mpn; TCDL:	=4.2psf; B0	CDL=6.0pst; h=25ft;												
B=45ft; L=	24ft; eave=	4ft; Cat. II;	Exp B; Enclosed;										This item ha	is been	
	urectional) a		Unes -1-6-0 to 1-6-0,										digitally sign	ed and	
Zone1 1-6	-0 to 7-11-4	zone; can	tilever left and right												
exposed;	end forece f		for reactions observe										sealed by El	binger, Jose	epn, PE
			I =1 60										on the date	indicated he	ere.
		aiost on air											Printed copi	es of this	
	poliod roof	ive lead ab		ling									document a	re not consid	dered
roquiromo	pplieu 1001 I	to the use	of this trues compone	ant									accountent a		ha
3) This trues	has heen de	esigned for	r a 10.0 nsf hottom	5111.									signed and s	sealed and t	.ne
chord live	load noncor	current wi	th any other live load	c									signature mi	ust be verifie	ed
4) * This true	s has heen	designed f	or a live load of 20 0r	s. Sf									on any elect	ronic copies	5.
on the bot	tom chord in	acoigned in all areas	where a rectangle	551									,		
3-06-00 to	II by 2-00-00) wide will	fit between the botto	m									Joseph Ebinger PF No.	98947	
chord and	any other m	hembers											MiTek Inc. DBA MiTek U	JSA FL Cert 6634	017
5) Refer to di	irder(e) for t	ruce to true	es connections										Date:	au, Chesterneid, MO 630	017

Refer to girder(s) for truss to truss connections.

May 14,2025

Page: 1



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	J7-8	Jack-Closed	10	1	Job Reference (optional)	T37314152

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:04 ID:EN1q_V_RIBIOH?JXp1?c09yHzrc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:44.2

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

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25		TC	0.61	Vert(LL)	-0.11	6-9	>792	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25		BC	0.56	Vert(CT)	-0.25	6-9	>346	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2023	/TPI2014	Matrix-AS	-	Wind(LL)	0.12	6-9	>722	240	Weight: 35 lb	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 Structural wood she except end verticals Rigid ceiling directly (size) 2=0-6-0, 6 Max Horiz 2=192 (LC	athing directly applie applied. 5= Mechanical 2 9)	6) 7) ed, LO/	Provide mec bearing plate 6 and 73 lb u This truss de structural wo chord and 1/ the bottom c AD CASE(S)	hanical connectic e capable of withs uplift at joint 2. sign requires tha od sheathing be 2" gypsum sheet hord. Standard	on (by oth tanding 6 t a minim applied di rock be ap	ers) of truss 4 lb uplift at um of 7/16" rectly to the oplied directl	to joint top y to					
	Max Oplift 2=-73 (LC Max Grav 2=361 (LC	C 1), 6=299 (LC 9)											
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=0/45, 2-3=-252/ 3-6=-208/256	159, 3-4=-9/0,											
BOT CHORD	2-6=-97/132, 5-6=0/	D											
NOTES													
1) Wind: AS0 Vasd=101 B=45ft; L= MWFRS (Zone1 1-6	CE 7-22; Vult=130mph mph; TCDL=4.2psf; Bu =24ft; eave=4ft; Cat. II; directional) and C-C Zu >0 to 7-8-0 zone; canti	(3-second gust) CDL=6.0psf; h=25ft; Exp B; Enclosed; one3 -1-6-0 to 1-6-0 lever left and right	,										

Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

exposed ; end vertical left and right exposed;C-C for

members and forces & MWFRS for reactions shown;

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

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

5) Refer to girder(s) for truss to truss connections.

This item has been digitally signed and sealed by Ebinger, Joseph, 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.

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Date:

May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	J7-8A	Half Hip	1	1	Job Reference (optional)	T37314153

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:04 ID:E8dh5E_xt5xdPwzOKadXSnyHzzL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:54.4

Plate Offsets (X, Y): [3:0-2-8,0-1-13], [4:0-2-12,0-0-8], [6:0-2-0,0-1-8]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25		тс	0.33	Vert(LL)	-0.04	7-10	>999	360	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25		BC	0.28	Vert(CT)	-0.08	7-10	>999	240			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.13	Horz(CT)	0.00	4	n/a	n/a			
BCDL	10.0	Code	FBC202	3/TPI2014	Matrix-AS		Wind(LL)	0.05	7-10	>999	240	Weight: 46 lb	FT = 20%	
												-		
LUMBER			5)	* This truss h	as been designed	for a liv	e load of 20.	.0psf						
TOP CHORD	2x4 SP No.1			on the botton	h chord in all areas	s where	a rectangle							
BOT CHORD	2x4 SP No.1			3-06-00 tall b	y 2-00-00 wide wil	I fit betw	leen the both	tom						
WEBS	2x4 SP No.2		C)	Chord and an	y other members.		actiona							
BRACING			(0) 7)	Browido mool		USS COILI	ections.	to						
TOP CHORD	Structural wood she	athing directly applie	ed, ()	hearing plate	canable of withsta	anding 1	2 lb unlift at	ioint						
	except end verticals			4 41 lb unlift	at joint 6 and 81 lb	h unlift a	t ioint 2	John						
BOT CHORD	Rigid ceiling directly	applied.	8)	This truss de	sign requires that a	a minim	um of 7/16"							
REACTIONS	(size) 2=0-6-0, 4	4= Mechanical, 6=	0)	structural wo	od sheathing be a	oplied di	rectly to the	top						
	Mechanic	al		chord and 1/2	2" gypsum sheetro	ock be a	oplied direct	ly to						
	Max Horiz 2=167 (LC		~	the bottom cl	nord.									
	Max Uplift 2=-81 (LC	5 12), 4=-12 (LC 9), (⁶⁼⁻⁴¹ 9)	Gap betweer	inside of top chor	rd bearir	ng and first							
	(LC 9)		256	diagonal or v	ertical web shall no	ot excee	d 0.500in.							
	(I C. 17)	5 T), 4=22 (LC T), 6=	⁼²³⁰ LC	AD CASE(S)	Standard									
FORCES	(lb) - Maximum Com	nression/Maximum												
	Tension	procordination												
TOP CHORD	1-2=0/45, 2-3=-222/	46. 3-4=-76/82. 4-6=	=0/0											
BOT CHORD	2-7=-100/152, 6-7=-	96/129, 5-6=0/0												
WEBS	3-7=-36/316, 3-6=-3	90/241												
NOTES														
1) Wind: AS	CE 7-22: Vult=130mph	(3-second aust)												
Vasd=101	mph: TCDL=4.2psf: B	CDL=6.0psf: h=25ft:												
B=45ft; L=	24ft; eave=4ft; Cat. II;	Exp B; Enclosed;										This item ha	s been	
MWFRS (directional) and C-C Z	one3 -1-6-0 to 1-6-0	,									digitally sign	ed and	
Zone1 1-6	-0 to 6-6-8, Zone3 6-6	-8 to 7-4-4 zone;										sealed by El	binger, Jose	ph, PE
cantilever	left and right exposed	; end vertical left an	d									on the date	indicated he	re
right expo	sed;C-C for members	and forces & MWFR	S									Drinted coni	oc of this	10.
for reactio	ns shown; Lumber DO	L=1.60 plate grip										Finted copi	55 01 1115	
DOL=1.60)											document a	e not consid	aerea
 Building D 	esigner / Project engir	neer responsible for	all as as									signed and s	sealed and the	he
verifying a	pplied root live load sr	own covers rain loa	aing									signature m	ust be verifie	ed
2) Drovido or	his specific to the USe	or unis truss compor	ient.									on any elect	ronic copies	-
 Provide at This truck 	bechoon designed for	event water ponding	J.									e any eloci		-
chord live	load nonconcurrent wi	th any other live los	ds									Joseph Ebinger PE No. 9	98947	
	iouu nonconcunent Wi	an any outer inte loa										MiTel: Inc. DRA MiTel: I	TT Control	

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Date:

May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	T 07044454	
24-0602-A1	J7-8S	Common	3	1	Job Reference (optional)	137314154	

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:04 ID:bcN8c0FE7x3HwN?l6fOmvoyHzrG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:46.1

Plate Offsets (X, Y): [2:0-4-3,0-0-4]

Loading	(psf)	Spacing	2-0-0 1 25		CSI	0.40	DEFL	in -0.14	(loc)	l/defl ⊳659	L/d	PLATES	GRIP 244/190
TCDI	7.0	Lumber DOI	1.25		BC	0.40	Vert(CT)	-0.30	6-9	>297	240	101120	244/100
BCLL	0.0*	Rep Stress Incr	YES		WB	0.07	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC202	3/TPI2014	Matrix-AS	0.01	Wind(LL)	0.18	6-9	>509	240	Weight: 38 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.1 2x4 SP No.1 2x4 SPF No.2 *Exce Structural wood she except end verticals Rigid ceiling directly (size) 2=0-6-0, § Max Horiz 2=147 (LC Max Uplift 2=-64 (LC Max Grav 2=367 (LC	pt* 6-3:2x4 SP No.2 athing directly applie applied. 5= Mechanical C 12) c 12), 5=-49 (LC 12) c 1), 5=-270 (LC 1)	6) 7) 2 ed, LC	Refer to gird Provide med bearing plat 2 and 49 lb This truss de structural we chord and 1, the bottom c DAD CASE(S)	ler(s) for truss to i chanical connection e capable of withs uplift at joint 5. esign requires tha ood sheathing be (2" gypsum sheet chord. Standard	truss conn on (by oth standing 6 at a minimu applied di trock be ap	ections. ers) of truss 4 lb uplift at um of 7/16" rectly to the pplied directl	to joint top y to					
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=0/45, 2-3=-249/3 4-5=-28/46	85, 3-4=-15/30,											
BOT CHORD	2-6=-39/82, 5-6=0/0												
WEBS	3-6=-194/184												
NOTES 1) Unbalance this design 2) Wind: ASV Vasd=101 B=45ft; L= MWFRS (Zone1 1-6 cantilever forces & M	ed roof live loads have n. CE 7-22; Vult=130mph mph; TCDL=4.2psf; Br =24ft; eave=4ft; Cat. II; directional) and C-C Zr 3-0 to 6-6-0, Zone3 6-6 left and right exposed MWFRS for reactions s	been considered for (3-second gust) CDL=6.0psf; h=25ft; Exp B; Enclosed; one3 -1-6-0 to 1-6-0; -0 to 7-6-4 zone; ;C-C for members a hown; Lumber	r , nd									This item ha digitally sigr sealed by E on the date	as been hed and binger, Joseph, PE indicated here.

DOL=1.60 plate grip DOL=1.60 3) Building Designer / Project engineer responsible for 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 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.

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May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	J7	Jack-Closed	2	1	Job Reference (optional)	T37314155

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:03 ID:EN1q_V_RIBIOH?JXp1?c09yHzrc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:42.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.08	6-9	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.17	6-9	>459	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS		Wind(LL)	0.09	6-9	>892	240	Weight: 32 lb	FT = 20%
LUMBER TOP CHORD	2x4 SP No.2		 Provide me bearing plat 	chanical connect e capable of with	tion (by oth hstanding 5	ers) of truss 8 lb uplift at	to joint					
BOT CHORD	2x4 SP No.2		6 and 72 lb	uplift at joint 2.								
WEBS	2x4 SP No.2		This truss d	esign requires th	hat a minim	um of 7/16"						
BRACING			structural w	ood sheathing be	e applied di	rectly to the	top					
TOP CHORD	Structural wood sheat except end verticals.	thing directly applie	ed, chord and 1 the bottom	/2" gypsum shee chord.	etrock be ap	oplied direct	ly to					
BOT CHORD	Rigid ceiling directly a	applied.	LOAD CASE(S	Standard								
REACTIONS	(size) 2=0-6-0.6=	= Mechanical										
	Max Horiz 2=176 (LC	9)										
	Max Uplift 2=-72 (LC	12), 6=-58 (LC 9)										
	Max Grav 2=337 (LC	1), 6=273 (LC 17)										
FORCES	(lb) - Maximum Comp Tension	pression/Maximum										
TOP CHORD	1-2=0/45, 2-3=-234/14 3-6=-189/245	46, 3-4=-9/0,										
BOT CHORD	2-6=-84/121, 5-6=0/0											
NOTES												
 Wind: AS Vasd=10² B=45ft; L= MWFRS (Zone1 1-6 exposed ; members Lumber D Building D Building D 	CE 7-22; Vult=130mph (1mph; TCDL=4.2psf; BC =24ft; eave=4ft; Cat. II; E (directional) and C-C Zoi 6-0 to 7-0-0 zone; cantile ; end vertical left and rigf and forces & MWFRS fo DOL=1.60 plate grip DOL Designer / Project engine	3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; ne3 -1-6-0 to 1-6-0, wer left and right nt exposed;C-C for pr reactions shown; =1.60 eer responsible for	dia a								This item ha digitally sigr sealed by E on the date	as been hed and binger, Joseph, PE indicated here.
	applied foor live load she	of this trues compon	ont								Printed copi	es of this

- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.

႔ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. WARNING - verify design parameters and READ NOTES ON THIS AND INCLOSED INTERNETING TO THE REFERENCE FOR UNIT 175 TOT. Inductor Section 2015 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) document are not considered signed and sealed and the signature must be verified on any electronic copies.

Page: 1

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	J4-10	Jack-Open	3	1	Job Reference (optional)	137314156

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:34:03 ID:RmAGGOLEfLyQX_Txokk3GEzHGIT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale	- 1	1.30	6
SUGIE	_		.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	0.26	Vert(LL)	-0.02	4-7	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.05	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS		Wind(LL)	0.03	4-7	>999	240	Weight: 19 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD	7) This truss design requires that a minimum of 7/16" 2x4 SP No.2 structural wood sheathing be applied directly to the top 2x4 SP No.2 chord and 1/2" gypsum sheetrock be applied directly to the bottom chord the bottom											
BRACING												
TOP CHORD	Structural wood she	athing directly applie	d. LUAD CASE(S)	Stanuaru								
BOT CHORD	Rigid ceiling directly	applied.										
REACTIONS	(size) 2=0-6-0, 3 Mechanic	3= Mechanical, 4= al										
	Max Horiz 2=135 (LC	C 12)										
	Max Uplift 2=-52 (LC	: 12), 3=-57 (LC 12)										
	Max Grav 2=273 (LC	C 1), 3=115 (LC 17),	4=86									
	(LC 3)											
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD	1-2=0/45, 2-3=-226/	59										
BOT CHORD	2-4=-24/83											

4-10-13

NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-10-1 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 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 3 and 52 lb uplift at joint 2. This item has been digitally signed and sealed by Ebinger, Joseph, 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.

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Data:

May 14,2025


Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	C-1	Piggyback	2	1	Job Reference (optional)	T37314157

1-7-4

1-7-4

5-8-4

4-1-0

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:33:57 ID:VEf_Q7RKj5X00NJwtIrbNxzIYoo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

9-9-4

4-1-0

11-4-8

1-7-4

Page: 1





|--|

Scale = 1:41.2

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 20.0 7.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC20)23/TPI2014	CSI TC BC WB Matrix-AS	0.04 0.04 0.02	DEFL Vert(LL) Vert(CT) Horz(CT)	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: 50 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No 2x4 SP No 2x4 SP No Structural Rigid ceili (size) Max Horiz Max Uplift Max Grav	0.2 0.2 0.2 wood she ng directly 2=9-11-6, 13=9-11-6 2=-65 (LC 2=-65 (LC 2=-37 (L 15=-21 (L 2=99 (LC (LC 1), 13 1), 15=81	athing directly applie applied. 10=9-11-6, 12=9-11 5, 14=9-11-6, 15=9-1 5 5 (10) 2 12), 10=-16 (LC 12) C 12), 13=-22 (LC 12) C 12), 16=-37 (LC 12) 1), 10=85 (LC 1), 12 =79 (LC 18), 14=106 (LC 17), 16=165 (LC	rd. -6, 1-6, (2), (2)	 a) Truss design only. For st see Standar or consult qu b) Building Desverifying apprequirement b) All plates arnindicated. c) Gable requir c) Gable studs c) Gable studs c) This truss his chord live 0 * This truss in the botton 3-06-00 tall chord and a c) Desvide media 	ned for wind load uds exposed to w d Industry Gable ualified building d signer / Project er plied roof live load s specific to the u e 1.5x4 () MT20 res continuous bo spaced at 1-4-0 as been designed m chord in all are by 2-00-00 wide in ny other member	s in the pl vind (norm End Deta esigner ar- d shown c unless o bitom chor oc. i for a 10. t with any ad for a liv as where will fit betw s.	ane of the tru al to the face ils as applica s per ANSI/T sponsible for overs rain loa truss compo therwise d bearing. 0 psf bottom other live loa e load of 20. a rectangle veen the bott	ads. oppsf					
FORCES	(lb) - Maxi Tension	imum Com	pression/Maximum	., .	0) Provide med bearing plate	chanical connections e capable of with:	on (by oth standing 1	ers) of truss	to joint					
TOP CHORD	1-2=0/14, 5-6=-44/8 8-10=-40/	2-4=-40/5 0, 6-7=-44 40, 10-11=	7, 4-5=-39/46, /80, 7-8=-23/45, =0/14		at joint 16, 2 18 lb uplift a	22 lb uplift at joint t joint 2 and 16 lb	13, 37 lb uplift at j	uplift at joint oint 10.	12,					
BOT CHORD	2-16=-37/ 13-14=-37	67, 15-16= 7/67, 12-13	37/67, 14-15=-37/6 =-37/67, 10-12=-37/	7, 67	structural wo	ood sheathing be /2" gypsum sheet	applied d	irectly to the	top v to				This item ha	as been
WEBS	S 6-14=-72/0, 5-15=-68/76, 4-16=-102/100, 7-13=-67/76, 8-12=-101/98				the bottom chord. di 12) See Standard Industry Piggyback Truss Connection se									ied and binger, Joseph, PF
NOTES				Detail for Co	onnection to base	truss as a	applicable, or					on the date	indicated here	
 Unbalanced roof live loads have been considered for this design. 					consult qualified building designer.								Printed copi	es of this

2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-3-11 to 3-1-0, Zone1 3-1-0 to 5-9-0, Zone2 5-9-0 to 9-9-8, Zone1 9-9-8 to 11-2-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

May 14,2025



🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. WARNING - verify design parameters and READ NOTES ON THIS AND INCLOSED INTERNETING TO THE REFERENCE FOR UNITY TO THE INSTANCE OF THE ADDRESS OF THE ADDRESS

Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	C-2	Piggyback	5	1	Job Reference (optional)	T37314158

5-8-4

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:33:57 ID:nsExYCL3DrYv1iskHHv4s2zIZ2Q-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

11-4-8

Page: 1





Scale = 1:42.6

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

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 7.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC202	23/TPI2014	CSI TC BC WB Matrix-AS	0.21 0.23 0.03	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: 40 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood she Rigid ceiling directly (size) 2=9-11-6, Max Horiz 2=-71 (LC Max Uplift 2=-57 (LC Max Grav 2=231 (LC (LC 1) (lb) - Maximum Com Tension 1-2=0/14, 2-3=-163/	athing directly applied applied. 4=9-11-6, 6=9-11-6 : 10) : 12), 4=-57 (LC 12) C 1), 4=231 (LC 1), 6= pression/Maximum 120, 3-4=-163/125,	6) 7) 8) I. 9) - ³²⁴ 1(Gable studs This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Provide mec bearing plate 2, 57 lb upliff upliff at joint 0) This truss de structural wo chord and 1/ the bottom c) See Standar	spaced at 4-0-0 as been designed ad nonconcurren nas been designed n chord in all are yoy 2-00-00 wide 'n yo other member hanical connectii a capable of with t at joint 4, 57 lb i 4. ssign requires that yod sheathing be '2" gypsum sheet hord.	oc. f for a 10.0 t with any ed for a liv as where will fit betw s. on (by oth standing 5 uplift at joi at a minim applied di trock be a back Trus:	D psf bottom other live loa e load of 20.0 a rectangle veen the botto ers) of truss t i7 lb uplift at j int 2 and 57 lb um of 7/16" irectly to the t oplied directly s Connection	ds. Dpsf om opint op (to					
BOT CHORD WEBS NOTES	4-5=0/14 2-6=-29/94, 4-6=-31, 3-6=-166/67	/94	L	Detail for Co consult quali DAD CASE(S)	fied building des Standard	truss as a igner.	applicable, or						
 Unbalance this design Wind: ASC Vasd=101 	ed roof live loads have n. CE 7-22; Vult=130mph mph; TCDL=4.2psf; Bo	been considered for (3-second gust) CDL=6.0psf; h=25ft;										This item ha	is been

- 45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed MWFRS (directional) and C-C Zone3 0-3-11 to 3-3-11, Zone1 3-3-11 to 5-9-0, Zone2 5-9-0 to 9-11-15, Zone1 9-11-15 to 11-2-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for 4) verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.

digitally signed and sealed by Ebinger, Joseph, 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.

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

May 14,2025



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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	C-3	Piggyback	1	1	Job Reference (optional)	T37314159

-0-8-15

0-8-15

2x4 =

Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:33:58 ID:IXXSz?uX0GQia?OhtOrGaPzHEK4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4-9-12

Page: 1

4-0-13 2-0-6 2-0-6 2-0-6 0-8-15 5-1-7 4x5 = 8¹² 3 a 5 2x4 = 1.5x4 u 4-0-13

1-10-8 1-8-12



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	тс	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	4	n/a	n/a			
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 18 lb	FT = 20%	
LUMBER			5) Gable requir	res continuous b	ottom chor	d bearing.							
TOP CHORD	2x4 SP No.2		Gable studs	spaced at 4-0-0	OC.								
BOT CHORD	2x4 SP No.2		7) This truss has been designed for a 10.0 psf bottom										

This truss has been designed for a 10.0 pst bottom

- chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 8) 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.
- 1=5-1-7, 2=5-1-7, 4=5-1-7, 5=5-1-7, 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 2, 32 lb uplift at joint 4, 43 lb uplift at joint 1, 26 lb uplift at joint 5 and 25 lb uplift at joint 2.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Ebinger, Joseph, 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.

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

May 14,2025



🔺 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 MiTeKe connectors. This design is based only ucon 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)

Max Horiz 1=-33 (LC 10) Max Uplift 1=-43 (LC 17), 2=-25 (LC 12), 4=-32 (LC 12), 5=-26 (LC 24) Max Grav 1=17 (LC 11), 2=170 (LC 17), 4=153 (LC 24), 5=11 (LC 12), 6=121 (LC 1) (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=-36/63, 2-3=-47/66, 3-4=-47/65, 4-5=-20/36 BOT CHORD 2-6=-12/42, 4-6=-12/42 WEBS 3-6=-57/28

2x4 SP No.2

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

6=5-1-7

NOTES

FORCES

Scale = 1:38.4

OTHERS

BRACING

TOP CHORD

BOT CHORD

REACTIONS (size)

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

- Wind: ASCE 7-22; Vult=130mph (3-second gust) 2) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft: L=24ft: eave=2ft: Cat. II: Exp B: Enclosed: MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for 4) verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	C-4	Piggyback	1	1	Job Reference (optional)	T37314160

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:33:58 ID:wAqTUuyluVI1te3GZyt3CGzHEEq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale =	1:33.9
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Plate Offsets (X, Y): [2:0-3-3,Edge], [4:0-3-3,Edge]

Laading (cf) (part of the space															
 TCLL (rod) TCDL T	Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
LCUL 0.0 Lumber DOL 1.25 BC 0.12 Veri(11) 0.00 4 n/a n/a <td>TCLL (roof)</td> <td></td> <td>20.0</td> <td>Plate Grip DOL</td> <td>1.25</td> <td></td> <td>TC</td> <td>0.27</td> <td>Vert(LL)</td> <td>n/a</td> <td>-</td> <td>n/a</td> <td>999</td> <td>MT20</td> <td>244/190</td>	TCLL (roof)		20.0	Plate Grip DOL	1.25		TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
BCLL 0.01 Kep Stress ind* YES WB 0.05 Honz(L) 0.00 4 Na	TCDL		7.0	Lumber DOL	1.25		BC	0.12	Vert(TL)	n/a	-	n/a	999		
BLOL 10.0 Code FB22/223/1P2/14 Matrix-AS Weight 21 lb F1 = 20% LUMBER TOP CHORD 2x4 SP No.2 Processory Processory </td <td>BCLL</td> <td></td> <td>0.0*</td> <td>Rep Stress Incr</td> <td>YES</td> <td></td> <td>WB</td> <td>0.05</td> <td>Horiz(IL)</td> <td>0.00</td> <td>4</td> <td>n/a</td> <td>n/a</td> <td></td> <td></td>	BCLL		0.0*	Rep Stress Incr	YES		WB	0.05	Horiz(IL)	0.00	4	n/a	n/a		
LUMBER VAS AS PNo.2 SUBJECT CHORD 2x4 SP No.2 Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of his truss component. Subject Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of his truss component. Subject Project engineer responsible for a live load shown covers rain loading requirements specific to the use of his truss component. Subject Project engineer responsible for a live load shown covers rain loading requirements specific to the use of his truss component. REACING Structural wood sheathing directly applied. Gable requirements specific to a live load shown covers rain loading engineer / Project engineer responsible for a live load shown covers rain loading engineer / Project engineer responsible for a live load shown covers rain loading engineer / Project engin	BCDL		10.0	Code	FBC202	3/TPI2014	Matrix-AS							Weight: 21 lb	F1 = 20%
 a big upilit at joint 4. b ball at goint 4. c consult qualified building designer. c consult qualified building designer as per ANSI/TPI 1. c consult qualified building designer as per ANSI/TPI 1. c c consult qualified building designer as per ANSI/TPI 1. 	LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP N 2x4 SP N 2x4 SP N Structural Rigid ceili (size) Max Horiz Max Uplift Max Grav	0.2 0.2 0.2 1=6-8-0, 2 6=6-8-0, 2 6=6-8-0 1=-40 (LC 1=-274 (LI 6=-16 (LC 1=44 (LC (LC 18). 5	athing directly applied applied. 2=6-8-0, 4=6-8-0, 5=6 10) C 17), 2=-98 (LC 12), 12), 5=-57 (LC 25), 12) 9), 2=851 (LC 17), 4= =31 (LC 32), 6=493 (4) 5) 6) 7) 3. 7) 38-0, 8) -9) =242 LC	 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. 5) Gable requires continuous bottom chord bearing. 6) Gable studs spaced at 4-0-0 cc. 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 8) * 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. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 2, 54 lb uplift at joint 4, 274 lb uplift at joint 1, 57 lb uplift at joint 5, 16 lb uplift at joint 6, 98 lb uplift at joint 2, and 									
FORCES (b) - Maximum Compression/Maximum Tension (b) - Maximum Compression/Maximum Tension OP CHORD 1-2=-45/194, 2-3=-133/77, 3-4=-136/74, 4-5=-52/52 (b) - Maximum Compression/Maximum Tension BOT CHORD 2-6=-20/97, 4-6=-19/97 (b) - Maximum Compression/Maximum the bottom chord. (c) - Maximum Compression/Maximum Tension NOTES 3-6=-392/35 (c) - Maximum Compression/Maximum the bottom chord. (c) - Maximum Compression/Maximum structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheatrock be applied directly to the bottom chord. (c) - Maximum structural wood sheathing be applied directly to the bottom chord. NOTES 2-6=-20/97, 4-6=-19/97 (c) - Maximum structural wood sheathing be applied directly to the bottom chord. (c) - Maximum structural wood sheathing be applied directly to the bottom chord. Notes 3-6=-392/35 (c) - Maximum structural wood sheathing be applied directly to the stop consult qualified building designer. (c) - Maximum structural wood sheathing be applied directly to the bottom chord. 10 Unbalanced roof live loads have been considered for this design. (c) - Maximum structural wood sheathing be applied directly to the stop consult qualified building designer as per consult qualified building designer as a note considered structural wood sheathing be applied directly to the stop consult qualified building designer as per ANSI/TP1 1. (c) - Maximum Application of structural wood sheathing be applied directly to the stop consult qualified building designer as			(LC 16), 5 17)	=31 (LC 32), 6=493 (LC 10	54 lb uplift at	joint 4.	minim	um of 7/16"						
 chord and 1/2² dysum sheatrock be applied directly to the date of the bottom chord. chord and 1/2² dysum sheatrock be applied directly to the date of the bottom chord. chord and 1/2² dysum sheatrock be applied directly to the bottom chord. chord and 1/2² dysum sheatrock be applied directly to the bottom chord. chord and 1/2² dysum sheatrock be applied directly to the bottom chord. chord and 1/2² dysum sheatrock be applied directly to the bottom chord. chord and 1/2² dysum sheatrock be applied directly to the bottom chord. chord and 1/2² dysum sheatrock be applied directly to the bottom chord. chord and 1/2² dysum sheatrock be applied directly to the date indicated here. chord and 1/2² dysum sheatrock be applied directly to the date indicated here. chord and 1/2² dysum sheatrock be applied directly to the date indicated here. chord and 1/2² dysum sheatrock be applied directly to the date indicated here. chord and 1/2² dysum sheatrock be applied directly to the date indicated here. chord and 1/2² dysum sheatrock be applied directly to the date indicated here. chord and 1/2² dysum sheatrock be applied directly to the date indicated here. di down and 56 lb up at 1-4.0, and 421 lb down and 49 lb up at 3-4.0 on top chord. The design/selection of such chores at from the LOAD CASE(S) section, loads applied to the face of the truss are noted as from (F) or back (B). load + Roof Live (balanced): Lumber Increase=1.25, prist and directly to the face, see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. chore the face, see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. chore the date indicated (b) Vert: 1-8-78, 3-8-54, 4-5-78, 7-10-20 chore the date for the date indicated (b) Vert: 3-310 (F), 8-337	FORCES	(lb) - Max	imum Com	pression/Maximum	10	structural wo	od sheathing be ap	plied d	rectly to the t	top					
 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer. 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 453 lb down and 56 lb up at 1-4-0, and 421 lb down and 49 lb down and 56 lb up at 1-4-0, and 421 lb down and 49 lb up at 3-4-0 on top chord. The design/selection of such connection device(s) is the responsibility of others. 13) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; c-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 14) 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/TP11. 15) The Standard Industry Cate End Details as applicable, or consult qualified building designer as per ANSI/TP11. 	TOP CHORD	1-2=-45/1	94, 2-3=-13	33/77, 3-4=-136/74,		the bottom cl	2 gypsum sneetroo nord.	ск be a	opiled directly	y to					
 1) Unbalanced roof live loads have been considered for this design. 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 453 lb down and 56 lb up at 1-4-0, and 421 lb down and 49 lb up at 3-4-0 on top chord. The design/selection of such connection device(s) is the responsibility of others. 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 453 lb down and 56 lb up at 3-4-0 on top chord. The design/selection of such connection device(s) is the responsibility of others. 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B). LOAD CASE(S) Standard 14) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25, Plate Increase=1.25, Uniform Loads (lb/ft) Vert: 1-8=-78, 3-8=-54, 3-4=-54, 4-5=-78, 7-10=-20 Concentrated Loads (lb) Vert: 3=-310 (F), 8=-337 (F) This item has been digitally signed and sealed and the signature must be verified on any electronic copies. 	BOT CHORD WEBS	4-5=-52/5 2-6=-20/9 3-6=-392/	/2 17, 4-6=-19/ /35	/97	11	 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer. 									
May 14 2025	 Unbalance this design Wind: ASC Vasd=101 B=45ft; L= MWFRS (i left and rig exposed;C reactions s DOL=1.60 Truss desi only. For see Stand or consult 	ed roof live I CE 7-22; Vu mph; TCDL :24ft; eave= idirectional) ; tht exposed C-C for mem shown; Lum igned for win studs expos ard Industry qualified bu	oads have It=130mph =4.2psf; BG 4ft; Cat. II; and C-C Zc ; end vertic ibers and fo iber DOL=1 nd loads in sed to wind / Gable Enc ilding desig	been considered for (3-second gust) CDL=6.0psf; h=25ft; Exp B; Enclosed; one3 zone; cantilever cal left and right prces & MWFRS for .60 plate grip the plane of the truss (normal to the face), d Details as applicabl gner as per ANSI/TPI	12 13 LC 1) s e, 1.) Hanger(S) of provided suff Ib down and Ib up at 3-4- such connec) In the LOAD of the truss a DAD CASE(S) Dead + Roc Plate Increa Uniform Loa Vert: 1-8: Concentrate Vert: 3=-3	orner connection d cicient to support co 56 lb up at 1-4-0, a 0 on top chord. Thi tion device(s) is the CASE(S) section, I re noted as front (F Standard of Live (balanced): I ise=1.25 ads (lb/ft) =-78, 3-8=-54, 3-4= ed Loads (lb) 310 (F), 8=-337 (F)	evice(s ncentra and 421 e desige e respor oads ap -) or ba _umber) snall be ted load(s) 4 Ib down and n/selection of sibility of oth opplied to the f ck (B). Increase=1.2	53 1 49 f ners. face 25, -20				This item ha digitally sign sealed by El on the date i Printed copie document an signed and s signature mu on any elect	s been ed and binger, Joseph, PE indicated here. es of this re not considered sealed and the ust be verified ronic copies.

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

Page: 1

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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	C-5	Piggyback	2	1	Job Reference (optional)	T37314161



Scale = 1:32.4

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 20.0 7.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC) 2023/TPI2014	CSI TC BC WB Matrix-AS	0.06 0.05 0.03	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 6	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 34 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD 30T CHORD DTHERS BRACING TOP CHORD 30T CHORD REACTIONS	2x4 SP N 2x4 SP N 2x4 SP N Structura Rigid ceil (size) Max Horiz Max Uplift Max Grav	lo.2 lo.2 lo.2 l wood shead ing directly 1=8-5-8, 2 8=8-5-8, 5 1=-55 (LC 1=-64 (LC 6=-23 (LC 8=-47 (LC 1=23 (LC 6=168 (LC (LC 18), 9 17)	athing directly applie applied. 2=8-5-8, 6=8-5-8, 7=: 9=8-5-8, 10=8-5-8 : 10) : 17), 2=-16 (LC 12), : 12), 7=-37 (LC 18), : 12), 10=-46 (LC 12) 11), 2=188 (LC 12), 8 =48 (LC 12), 10=164	ed. 8-5-8,) 3=163 4 (LC	 Truss desi only. For see Stand or consult Building D verifying a requireme Gable requireme Gable stud This truss chord live * This truss on the bot 3-06-00 ta chord and Provide m bearing pl 2, 23 lb up joint 7, 46 	gned for wind loads studs exposed to wind and Industry Gable E qualified building de esigner / Project energing pplied roof live load nts specific to the us uires continuous bot ds spaced at 1-4-0 on has been designed load nonconcurrent s has been designed load nonconcurrent by 2-00-00 wide w any other members echanical connection ate capable of withs lift at joint 6, 64 lb u lb uplift at ioint 10.04	in the pl nd (norm End Deta ssigner a gineer re shown c se of this tom chor c. for a 10. with any d for a liv as where vill fit betv. n (by oth tanding ' plift at jo	ane of the tru ial to the face ils as applica s per ANSI/TI sponsible for overs rain loa truss compoi d bearing. 0 psf bottom other live loa e load of 20.1 a rectangle veen the botti- ers) of truss 1 6 lb uplift at j int 1, 37 lb up	ess b), ble, pl 1. ading nent. ads. Opsf om to point blift at d 16						
F ORCES TOP CHORD	(lb) - Max Tension 1-2=-58/8	39, 2-3=-47	pression/Maximum /39, 3-4=-59/114,		lb uplift at 10) This truss structural	joint 2. design requires that wood sheathing be a	t a minim applied d	um of 7/16" irectly to the	top						
3OT CHORD WEBS NOTES 1) Unbalanc this desig	2-10=-30, 6-8=-30,8 4-9=-78/2 ed roof live n.	/86, 9-10=-3 36 22, 3-10=-1 loads have	30/86, 8-9=-30/86, 13/154, 5-8=-112/17/ been considered for	6	chord and the bottom 11) See Stand Detail for (consult qu LOAD CASE(1/2" gypsum sheetr a chord. lard Industry Piggyb Connection to base t alified building desig S) Standard	ock be a ack Trus truss as a gner.	pplied directly s Connection applicable, or	y to				This item ha digitally sign sealed by E	s been ed and binger, Joseph	ı, PE
Vasd=10	Imph; TCDL	_=4.2psf; B	CDL=6.0psf; h=25ft;										Printed copi	es of this	

B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-9-10 to 3-8-1, Zone1 3-8-1 to 5-0-1, Zone3 5-0-1 to 9-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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Page: 1

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May 14,2025



Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	C-6	Piggyback	17	1	Job Reference (optional)	T37314162

3-3-13

2=8-5-8, 4=8-5-8, 6=8-5-8

Max Grav 2=197 (LC 1), 4=197 (LC 1), 6=282

Max Uplift 2=-50 (LC 12), 4=-50 (LC 12)

(lb) - Maximum Compression/Maximum

1-2=0/14, 2-3=-119/106, 3-4=-119/112,

Max Horiz 2=-62 (LC 10)

2-6=-23/75, 4-6=-25/75

Unbalanced roof live loads have been considered for

MWFRS (directional) and C-C Zone3 0-3-11 to 3-3-11, Zone1 3-3-11 to 5-0-1, Zone2 5-0-1 to 9-2-13, Zone1

9-2-13 to 9-8-7 zone; cantilever left and right exposed ;

Truss designed for wind loads in the plane of the truss

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

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

Gable requires continuous bottom chord bearing.

see Standard Industry Gable End Details as applicable,

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

end vertical left and right exposed;C-C for members and

Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;

forces & MWFRS for reactions shown; Lumber

DOL=1.60 plate grip DOL=1.60

Gable studs spaced at 4-0-0 oc.

Tension

4-5=0/14

3-6=-147/68

(LC 1)

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:33:58 ID:TQKilHf9sXt1_I7FkfOBq7zIxCm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale - 1:34.2

REACTIONS (size)

FORCES

TOP CHORD

BOT CHORD

this design.

WEBS

1)

2)

3)

4)

5) 6)

NOTES

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	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25		BC	0.16	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES		WB	0.02	Horz(CT)	0.00	10	n/a	n/a			
BCDL	10.0	Code	FBC2023/	TPI2014	Matrix-AS							Weight: 34 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood shea Rigid ceiling directly	athing directly applied applied.	7) 8) I. 9)	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Provide med	s been designe ad nonconcurre has been design n chord in all a by 2-00-00 wide hanical connect	ed for a 10.0 int with any ned for a liv reas where e will fit betw ers. tion (by oth) psf bottom other live loa e load of 20. a rectangle veen the bott ers) of truss	ads. Opsf tom to						

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 2, 50 lb uplift at joint 4, 50 lb uplift at joint 2 and 50 lb uplift at joint 4.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Ebinger, Joseph, 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.

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May 14,2025



2	WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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	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)
	attailable international and an and a statistical particular and an and a statistical and an

Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	C-7	Piggyback	6	1	Job Reference (optional)	137314163

2-2-7

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:33:59 ID:fIM5Sb2eaDOvrW2RzWaEajyHzqE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:29.5

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 7.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.25 1.25 YES FBC2023	3/TPI2014	CSI TC BC WB Matrix-AS	0.08 0.09 0.01	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 21 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood shea Rigid ceiling directly (size) 2=5-1-7, 4 Max Horiz 2=-40 (LC Max Uplift 2=-39 (LC Max Grav 2=130 (LC (LC 1)	athing directly applie applied. I=5-1-7, 6=5-1-7 10) 12), 4=-39 (LC 12) C 1), 4=130 (LC 1), 6	8) 9) ed. 10) S=169	* This truss h on the bottor 3-06-00 tall b chord and ar Provide mec bearing plate 2, 39 lb uplift at joint This truss de structural wo chord and 1/ the bottom c See Standar	as been designee n chord in all area y 2-00-00 wide w y other members hanical connection capable of withst at joint 4, 39 lb u 4. sign requires that od sheathing be a 2" gypsum sheetr hord. l Industry Piggybb	d for a liv as where ill fit betw n (by oth tanding 3 plift at joi a minim applied di ock be ap ack Trus:	e load of 20.0 a rectangle veen the botto ers) of truss t 9 lb uplift at j nt 2 and 39 lb um of 7/16" rectly to the t oplied directly s Connection	opsf om oint o op to					
FORCES TOP CHORD BOT CHORD WEBS	(lb) - Maximum Com Tension 1-2=0/14, 2-3=-68/83 2-6=-4/45, 4-6=-9/45 3-6=-72/36	pression/Maximum 7, 3-4=-68/82, 4-5=0 5)/14 LO	Detail for Co consult quali	nnection to base t fied building desig Standard	truss as a gner.	applicable, or						
NOTES 1) Unbalance this design 2) Wind: ASC Vasd=101 B=45ft; L= MWFRS ((left and rig exposed;C reactions s DOL=1.60 3) Truss desis only. For see Stand or consult 4) Building D verifying a reactions s	ed roof live loads have n. CE 7-22; Vult=130mph mph; TCDL=4.2psf; BG =24ft; eave=4ft; Cat. II; directional) and C-C Zc ght exposed; end vertic chown; Lumber DOL=1) igned for wind loads in studs exposed to wind lard Industry Gable End qualified building desig besigner / Project engin pplied roof live load sh	been considered for (3-second gust) CDL=6.0psf; h=25ft; Exp B; Enclosed; one3 zone; cantileve cal left and right orces & MWFRS for 1.60 plate grip the plane of the trus (normal to the face) d Details as applicat gner as per ANS/ITF teer responsible for nown covers rain loar of this true correct	er ss , ble, 11. ding ding									This item ha digitally sigr sealed by E on the date Printed copi document a signed and signature m	as been hed and binger, Joseph, Pf indicated here. es of this re not considered sealed and the ust be verified tronic consider

- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc. 6)
- This truss has been designed for a 10.0 psf bottom 7) chord live load nonconcurrent with any other live loads.

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Date

May 14,2025



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Job	Truss	Truss Type	Qty	Ply	GAINEY HOME	
24-0602-A1	C-8	Piggyback	1	1	Job Reference (optional)	T37314164

Run: 8.83 S Apr 24 2025 Print: 8.830 S Apr 24 2025 MiTek Industries, Inc. Tue May 13 10:33:59 ID:fIM5Sb2eaDOvrW2RzWaEajyHzqE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:29.5

Loading TCLL (roof) TCDL BCLL	(psf) 20.0 7.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 YES		CSI TC BC WB	0.08 0.09 0.01	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code	FBC202	3/TPI2014	Matrix-AS							Weight: 21 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood shea Rigid ceiling directly (size) 2=5-1-7, 4 Max Horiz 2=-40 (LC Max Uplift 2=-39 (LC Max Grav 2=130 (LC (LC 1)	athing directly applie applied. I=5-1-7, 6=5-1-7 : 10) : 12), 4=-39 (LC 12) C 1), 4=130 (LC 1), 6	8) 9) ed. 5=169	* This truss h on the bottor 3-06-00 tall h chord and an Provide mec bearing plate 2, 39 lb upliff uplift at joint) This truss de structural wo chord and 1/ the bottom c	has been designed in chord in all areas y 2-00-00 wide will y other members. hanical connection capable of withsta at joint 4, 39 lb up 4. sign requires that od sheathing be al 2" gypsum sheetro hord.	I for a liv s where II fit betv h (by oth anding 3 blift at joi a minim pplied di pock be a	e load of 20.0 a rectangle veen the botto ers) of truss t 9 lb uplift at jr nt 2 and 39 lb um of 7/16" rectly to the t oplied directly	opsf om opint op (to					
FORCES	(Ib) - Maximum Com	pression/Maximum	11) See Standar Detail for Co	d Industry Piggyba nnection to base tr	ick Irus russ as a	s Connection applicable, or						
TOP CHORD BOT CHORD WEBS	1-2=0/14, 2-3=-68/8 2-6=-4/45, 4-6=-9/45 3-6=-72/36	7, 3-4=-68/82, 4-5=0 5	^{//14} LC	DAD CASE(S)	Standard	ner.							
NOTES													
 Unbalance this design Wind: ASC Vasd=101 B=45ft; L= MWFRS (i left and rig exposed;C reactions s DOL=1.60 Truss desi only. For see Stand or consult Building D 	ed roof live loads have h. CE 7-22; Vult=130mph mph; TCDL=4.2psf; Bú -24ft; eave=4ft; Cat. II; directional) and C-C Zo pht exposed ; end vertic C-C for members and for shown; Lumber DOL=1 igned for wind loads in studs exposed to wind ard Industry Gable End qualified building desig lesigner / Project engin	been considered for (3-second gust) CDL=6.0psf; h=25ft; Exp B; Enclosed; one3 zone; cantileve cal left and right orces & MWFRS for 1.60 plate grip the plane of the trus (normal to the face) d Details as applicat gner as per ANS/ITF ueer responsible for	ss , , ole, , 1.1.									This item ha digitally sigr sealed by E on the date Printed copi document a signed and	as been hed and binger, Joseph, PE indicated here. les of this re not considered sealed and the ust be verified
verifying a	pplied roof live load sh	own covers rain load	ding ent									signature m	ust be verified

5) Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc. 6)
- This truss has been designed for a 10.0 psf bottom 7) chord live load nonconcurrent with any other live loads.

Joseph Ebinger PE No. 98947 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017 Date

May 14,2025



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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.
- 12. 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.