MiTe

Lymber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

16023 Swingley Ridge Rd.

Chesterfield, MO 63017

MiTek, Inc.

314.434.1200

RE: 0523-025 - Robinson

Site Information:

Customer Info: BB Homes Project Name: . Model: .

Lot/Block: .

Subdivision: .

Address: ., .

City: Columbia County

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: FBC2020/TPI2014

Design Program: MiTek 20/20 8.7

Wind Code: ASCE 7-16

Wind Speed: 130 mph

Roof Load: 40.0 psf

Floor Load: N/A psf

This package includes 16 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
1	T31541617 T31541618	A01GE A02	9/12/23 9/12/23
3	T31541619	A03	9/12/23
	T31541620	A04GE	9/12/23
5	T31541621	B01GE	9/12/23
6	T31541622	B02	9/12/23
12345678910	T31541623	B03	9/12/23
	T31541624	B04GE	9/12/23
9	T31541625	B05	9/12/23
10	T31541626	C01GE	9/12/23
11	T31541627	C02	9/12/23 9/12/23
12	T31541628	C03	
13	T31541629	C04	9/12/23 9/12/23
14	T31541630	GIR01	
15	T31541631	M01	9/12/23 9/12/23
16	T31541632	M02	



The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Lee, Julius

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

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.



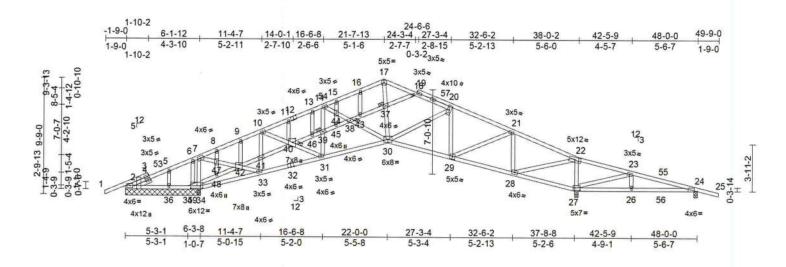
Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 12,2023

Job	Truss	Truss Type	Qty	Ply	Robinson	
0523-025	A01GE	Roof Special Structural Gable	1	1	Job Reference (optional)	T31541617

Run: 8.97 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Tue Sep 12 09:13:27 ID:1V7MqIJh7TzyTnxm4f83CHzIHZT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:92.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	1/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.44	LINE TO STATE OF THE PARTY OF T	100000000000000000000000000000000000000	26-52	>999	- 10 miles	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.39			29-30	>999	180	WIZO	244/130
BCLL	0.0*	Rep Stress Incr	YES	WB	0.64		0.10	27	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS			0.10		100	100	Weight: 308 lb	FT = 20%

LUMBER TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 WEBS OTHERS 2x4 SP No.2 Left 2x4 SP No.2 -- 1-6-0 SLIDER BRACING

TOP CHORD BOT CHORD

Structural wood sheathing directly applied Rigid ceiling directly applied.

JOINTS 1 Brace at Jt(s): 37,

38 39 40

REACTIONS (size) 2=6-3-8, 24=0-3-8, 27=0-3-8, 34=6-3-8, 35=6-3-8, 36=6-3-8

Max Horiz 2=-156 (LC 10)

Max Uplift 2=-315 (LC 3), 24=-127 (LC 12), 27=-99 (LC 12), 35=-23 (LC 12) Max Grav

2=-67 (LC 9), 24=273 (LC 22), 27=1944 (LC 1), 34=1835 (LC 1), 35=93 (LC 1), 36=260 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/39, 2-5=-717/1383, 5-6=-44/1392, 6-7=-25/1311, 7-8=-476/24, 8-9=-537/48, 9-10=-499/70, 10-11=-1234/60.

11-13=-1253/89, 13-14=-1201/91 14-15=-1288/39, 15-16=-1288/63, 16-17=-1270/90, 22-23=-264/1153 23-24=-7/414, 24-25=0/25, 17-18=-1346/90, 18-20=-1596/119, 20-21=-1519/88,

21-22=-856/1

BOT CHORD 2-36=-1265/105, 35-36=-1258/104,

34-35=-743/58, 26-27=-363/0, 24-26=-363/0, 33-34=-477/0, 31-33=-35/942, 30-31=0/1508, 28-30=0/1430, 27-28=-1295/361

WEBS

7-34=-914/48, 17-37=0/812, 30-37=0/790 22-27=-1306/173 23-27=-833/648 23-26=-225/218, 20-30=-45/175, 20-29=-322/90, 21-29=-43/680, 21-28=-835/163, 22-28=-191/2027, 14-44=-61/135, 38-44=-78/134, 30-38=-187/148, 33-41=-773/61 10-41=-649/29, 7-47=-27/1798 42-47=-26/1770, 33-42=0/1456, 10-40=0/715, 31-40=0/607, 31-39=-284/33, 14-39=-220/11, 18-37=-264/92, 38-43=-279/96, 37-43=-254/85, 39-45=-363/123 38-45=-345/119, 40-46=-336/110 39-46=-339/112, 40-41=-527/134 41-42=-485/114, 34-48=-1038/165. 42-48=-976/148, 35-49=-532/57, 34-49=-522/54, 16-43=-83/44, 15-44=-83/39, 44-45=-48/21, 13-46=-9/22, 11-40=-172/55, 9-42=-31/37, 8-47=-279/38, 47-48=-121/34,

NOTES

Unbalanced roof live loads have been considered for this design

6-49=-240/37, 5-36=-100/41

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=48ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-9-0 to 3-0-10, Interior (1) 3-0-10 to 21-7-13, Exterior(2R) 21-7-13 to 26-5-7, Interior (1) 26-5-7 to 49-9-0 zone: cantilever left and right exposed; end vertical left and right exposed; porch 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 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 315 lb uplift at joint 2, 99 lb uplift at joint 27, 127 lb uplift at joint 24 and 23 lb uplift at joint 35.
- 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.



Julius Lee PE No. 34869 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 12,2023

Continued on page 3

- 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 properly advange. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	Robinson	
0523-025	A01GE	Roof Special Structural Gable	1	1	Job Reference (optional)	T31541617

Run: 8.97 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Tue Sep 12 09:13:27 ID:1V7MqIJh7TzyTnxm4f83CHzIHZT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

11) 2 X 4 notch at 20000 o.c. is allowed along the stacked top chord. No notches allowed in overhang and 10900 from left end and 10900 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

LOAD CASE(S) Standard

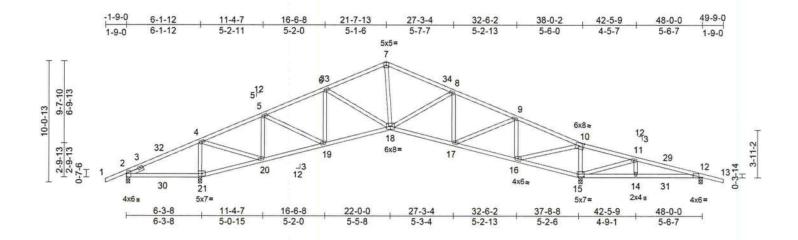
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall 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 ANSITPH 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	Robinson	acente anno en com
0523-025	A02	Roof Special	7	1	Job Reference (optional)	T31541618

Run: 8.97 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Tue Sep 12 09:13:29 ID:Q3sztzqDhbtaZFugESoLvSzII0V-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:92.1

Plate Offsets (X, Y):	[2:0-3-8,Edge],	[10:0-5-0,0-3-0], [1	2:0-3-4,Edge], [15:0-5-4,	0-2-8]								
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defi	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	0.08	21-24	>890	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.20	17-18	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.11	15	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		C=515 551					Weight: 253 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 12=0-3-8, 15=0-3-8,

21=0-3-8 Max Horiz 2=-162 (LC 10)

Max Uplift 2=-144 (LC 12), 12=-125 (LC 12),

15=-107 (LC 12)

2=115 (LC 21), 12=267 (LC 22), Max Grav

15=1992 (LC 1), 21=1806 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 10-11=-289/1187, 11-12=0/442, 12-13=0/25,

1-2=0/40, 2-4=-66/764, 4-5=-978/237.

5-6=-1552/232, 6-7=-1512/173,

7-8=-1577/175, 8-9=-1584/129, 9-10=-889/1 2-21=-638/14, 14-15=-390/0, 12-14=-390/0,

20-21=-735/0, 19-20=-87/877,

18-19=-21/1435, 17-18=0/1462, 16-17=0/802, 8)

15-16=-1333/388

4-21=-1477/112, 7-18=-11/832,

10-15=-1346/192, 11-15=-832/648, 11-14=-225/219, 8-18=-146/128,

8-17=-321/107, 9-17=-73/696,

9-16=-865/180, 10-16=-225/2095

6-18=-187/155, 5-20=-763/44, 4-20=0/1590,

5-19=0/602, 6-19=-281/14

NOTES

WEBS

BOT CHORD

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=48ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-9-0 to 3-0-10, Interior (1) 3-0-10 to 21-7-13, Exterior(2R) 21-7-13 to 26-5-7, Interior (1) 26-5-7 to 49-9-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 3x5 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 144 lb uplift at joint 2, 107 lb uplift at joint 15 and 125 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.

LOAD CASE(S) Standard



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

September 12,2023



🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

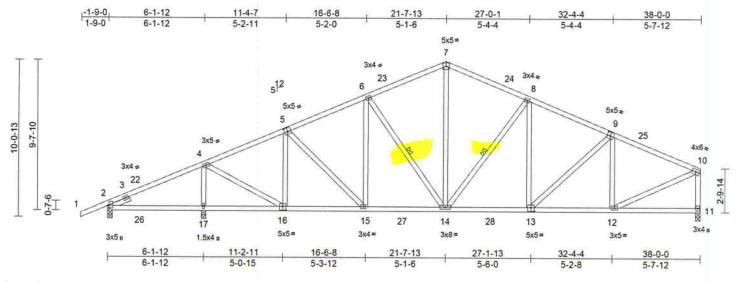
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 properly advange. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	Robinson	
0523-025	A03	Common	6	1	Job Reference (optional)	T31541619

Run: 8.97 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Tue Sep 12 09:13:30 ID:8o11hqZUJLZwOd3OIIOftKzII?Y-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:70.9

Plate Offsets (X, Y):	[2:0-2-1,0-1-0], [5:0-2-8,0-3-0]	[9:0-2-8,0-3-0]	, [13:0-2-8,0-3-0], [16:0-2-8,0	-3-0]
-----------------------	----------------------------------	-----------------	---------------------------------	-------

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	0.06	17-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.45	The state of the s		13-14	>999	180		2111100
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	NAME OF TAXABLE PARTY.	0.04	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS	0.02		0.04		100	1114	Weight: 241 lb	ET - 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals **BOT CHORD** Rigid ceiling directly applied. WEBS 1 Row at midpt 8-14, 6-14

REACTIONS 2=0-3-8, 11=0-3-8, 17=0-3-8

Max Horiz 2=196 (LC 11)

Max Uplift 2=-122 (LC 12), 11=-4 (LC 12),

17=-22 (LC 12)

2=290 (LC 21), 11=1393 (LC 18),

Max Grav

17=1838 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/40, 2-4=-139/322, 4-6=-1469/170,

6-7=-1326/185, 7-8=-1318/175, 8-10=-1596/146, 10-11=-1299/91

2-17=-293/89, 15-17=-293/1180,

14-15=-94/1381, 12-14=-82/1418,

11-12=-33/67

7-14=-39/723, 8-14=-449/62

10-12=-53/1393, 4-17=-1634/41, 8-13=0/186,

9-13=-5/148, 9-12=-431/93, 6-14=-321/78, 5-16=-566/39, 4-16=0/1479, 5-15=0/323,

6-15=-70/84

NOTES

WERS

BOT CHORD

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-9-0 to 2-0-10, Interior (1) 2-0-10 to 21-7-13, Exterior(2R) 21-7-13 to 25-5-7, Interior (1) 25-5-7 to 37-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 2, 4 lb uplift at joint 11 and 22 lb uplift at joint 17.
- 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



Julius Lee PE No. 34869 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

September 12,2023

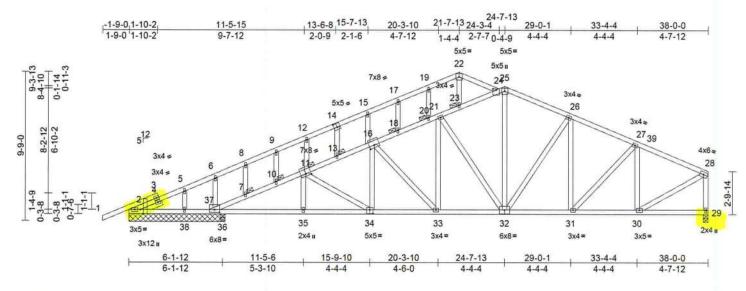




Job	Truss	Truss Type	Qty	Ply	Robinson	9.5000 topayoodhaasaga
0523-025	A04GE	Common Structural Gable	1	1	Job Reference (optional)	T31541620

Run: 8.97 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Tue Sep 12 09:13:30 ID:X29S8?i4WJhoTfHV1pRi_XzIHpI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:72.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defi	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.10	34-35	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.20	33-34	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.08	29	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 287 lb	FT = 20%

		10.0		
LUMBER				
TOP CHORD	2x4 SF	No.2		
BOT CHORD	2x4 SF	No.2		
WEBS	2x4 SF	No.2		
OTHERS	2x4 SF	No.2		
SLIDER	Left 2x	4 SP No.2	1-6-0	
BRACING				
TOP CHORD		oc purlins,		
BOT CHORD	Rigid of bracing	eiling directly	applied or	10-0-0 oc
JOINTS		e at Jt(s): 23, 13, 10, 7,		
DEACTIONS	(-i)	2-020	20-0 2 0 20	-000

REACTIONS (size) 2=6-3-8, 29=0-3-8, 36=0-3-8, 37=6-3-8, 38=6-3-8

Max Horiz 2=193 (LC 11) Max Uplift 2=-30 (LC 12), 37=-134 (LC 12) 2=619 (LC 1), 29=1319 (LC 1), Max Grav 36=598 (LC 1), 37=549 (LC 1),

38=101 (LC 3) **FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/39, 2-5=-671/263, 5-6=-630/0, 6-8=-667/0, 8-9=-674/0, 9-12=-643/0, 12-15=-671/32, 15-17=-652/54, 17-19=-629/69, 19-22=-605/91, 28-29=-1274/52, 7-37=-1785/115, 7-10=-1727/106, 10-13=-1707/99, 13-16=-1442/75, 16-18=-1071/61 18-20=-1043/54, 20-21=-1025/42, 21-23=-751/50, 23-24=-838/57, 24-25=-1250/95, 25-26=-1464/109, 26-27=-1547/89, 27-28=-1324/63,

22-24=-618/87, 11-35=0/159

BOT CHORD 2-38=0/587, 37-38=0/582, 36-37=-59/2168, 35-36=-59/2168, 33-35=-61/2178, 31-33=-29/1524, 30-31=-47/1179, 29-30=-30/48 WEBS 22-23=-17/225, 19-20=-62/36, 17-18=-72/17,

15-16=-212/54, 13-14=-57/16, 11-12=-170/58, 9-10=-55/20, 7-8=-136/22, 6-37=-197/68, 5-38=-60/19, 25-32=0/524, 26-32=-234/47, 26-31=-122/32, 27-31=0/288, 27-30=-571/69 28-30=-19/1329 21-33=0/502, 16-34=0/289, 21-32=-425/6, 16-33=-583/43, 11-34=-306/29

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-9-0 to 2-0-10, Interior (1) 2-0-10 to 24-7-13, Exterior(2E) 21-7-13 to 24-3-4, Interior (1) 24-7-13 to 37-10-4 zone; cantilever left and right exposed; end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For stude exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) 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 studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 2 and 134 lb uplift at joint 37.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- 11) 2 X 4 notch at 20000 o.c. is allowed along the stacked top chord. No notches allowed in overhang and 10900 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

LOAD CASE(S) Standard



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

September 12,2023



🔬 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

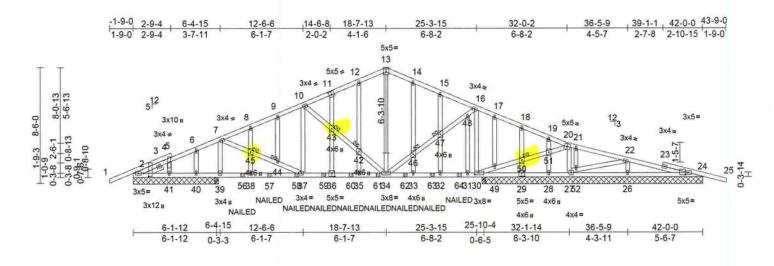
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	Robinson	/ plant / Plant Port E Privi
0523-025	B01GE	Roof Special Girder	1	1	Job Reference (optional)	T31541621

Run: 8.97 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Tue Sep 12 09:13:31 ID:eBpE1NqvTBc0qbnfpi9q3MzIHqt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:81.5

Plate Offsets (X, Y):	[2:0-2-12,0-4-1	1], [11:0-2-8,0-3-0],	[24:0-2-4,0-2-0], [24:0-2	-4,0-1-8], [29:0-2	-8,0-3-0], [30:0-3-8,0-1-	8], [36:0	-2-8,0-3-	0]			
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defi	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.08	32-33	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.14	32-33	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.01	30	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		2000					Weight: 299 lb	FT = 20%

LUMBER		3 2	TOP CHORD	
TOP CHORD		(T) (T)		6-7=-12/180, 7-8=-1104/0, 8-9=-1058/0,
BOT CHORD				9-10=-1008/0, 10-12=-784/0, 12-13=-701/18,
WEBS	2x4 SP N			20-21=0/110, 21-22=0/124, 22-24=-14/65,
OTHERS	2x4 SP N			24-25=0/25, 13-14=-694/19, 14-15=-726/0,
SLIDER	Left 2x4 5	SP No.2 1-6-0		15-16=-787/0, 16-17=0/185, 17-18=0/149,
BRACING				18-19=0/148, 19-20=0/141
TOP CHORD	Structura 5-2-11 oc	I wood sheathing directly applied or purlins.	BOT CHORD	38-39=-99/28, 37-38=-99/28, 35-37=0/960,
BOT CHORD	Rigid ceil bracing,	ing directly applied or 6-0-0 oc Except:		34-35=0/960, 33-34=-126/66, 32-33=-126/66, 31-32=-126/66, 30-31=-126/66, 28-30=-97/42, 27-28=-97/42, 26-27=-46/3,
	10-0-0 od	bracing: 36-37,35-36,34-35.		24-26=-46/13
JOINTS	1 Brace a	at Jt(s): 42,	WEBS	
	43, 44, 4	5, 46, 47,	WEBS	7-39=-1222/0, 7-45=0/1144, 44-45=0/1122, 37-44=0/1130, 10-37=-18/51, 10-43=-422/0,
	50			42-43=-436/0. 34-42=-456/0. 13-34=-2/234.
REACTIONS	(size)	2=6-3-8, 24=16-3-8, 26=16-3-8,		34-46=0/955, 46-47=0/942, 47-48=0/1017,
		27=16-3-8, 28=16-3-8, 29=16-3-8,		16-48=0/909, 16-30=-1155/0, 30-49=-58/27.
		30=16-3-8, 39=0-3-8, 40=6-3-8,		49-50=-63/23, 50-51=-59/25, 20-51=-63/25,
		41=6-3-8, 53=16-3-8		20-27=-77/35, 27-52=-126/55, 22-52=-79/40.
	Max Horiz	2=-131 (LC 6)		22-26=-276/35, 12-42=-39/53, 35-42=-22/55,
	Max Uplift	2=-108 (LC 23), 24=-57 (LC 23),		11-43=0/50, 36-43=0/63, 9-44=0/32,
	The second second	27=-7 (LC 23), 28=-7 (LC 8),		8-45=-28/77, 38-45=0/107, 6-40=-8/55,
		29=-59 (LC 23), 40=-116 (LC 18),		4-41=-82/12, 14-46=-31/49, 33-46=-49/45,
		53=-57 (LC 23)		15-47=-13/67, 32-47=0/133, 31-48=-183/0.
	Max Grav	2=248 (LC 17), 24=304 (LC 18),		17-49=0/27, 18-50=-120/50, 29-50=-105/65,
		26=417 (LC 18), 27=210 (LC 18),		19-51=-91/20, 28-51=-98/19, 21-52=-96/33
		28=181 (LC 1), 29=42 (LC 3),	save and see	13-3131/20, 20-3130/19, 21-3230/33
		30=1607 (LC 1) 39=1536 (LC 1)	NOTES	

30=1607 (LC 1), 39=1536 (LC 1), 40=-29 (LC 5), 41=156 (LC 1),

53=304 (LC 18)

(lb) - Maximum Compression/Maximum

NOTES

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

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; 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

- 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 studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 2, 7 lb uplift at joint 27, 116 lb uplift at joint 40, 59 lb uplift

pearing plate capable of withinstanding 10s to uplift at joint 27, 7 lb uplift at joint 27, 116 lb uplift at joint 40, 59 lb uplift at joint 29, 7 lb uplift at joint 28 lb 10 uplift at joint 24 and 57 lb uplift at joint 24 lb 10 "NAILED" indicates 3- to 10 148:x3 7 67 120 (0.148:x3.25") Joe-nails per NIS phidines.

No 34869

Julius Lee PE No. 34869

Julius Lee PE No. 34869 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 12,2023

Tension

FORCES

- Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design valid for use only with Mil eks/schnetorios. This design is based only upon parameters shown, and is for an individual billinging component, not a truss system. Before use, the building designer must verify the applicability of design parameters 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 properly 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	Robinson	
0523-025	B01GE	Roof Special Girder	1	1	Job Reference (optional)	T31541621

Run: 8.97 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Tue Sep 12 09:13:31 ID:eBpE1NqvTBc0qbnfpi9q3MziHqt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

(B), 64=-110 (B)

LOAD CASE(S) Standard

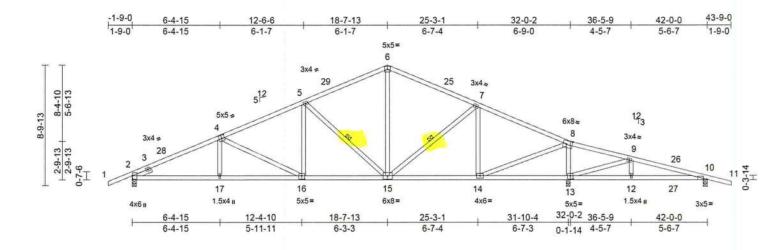
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft) Vert: 2-53=-20, 1-13=-60, 20-25=-60, 13-20=-60 Concentrated Loads (lb) Vert: 56=-110 (B), 57=-110 (B), 58=-110 (B), 59=-110 (B), 60=-110 (B), 61=-110 (B), 62=-110 (B), 63=-110



Job	Truss	Truss Type	Qty	Ply	Robinson	242-111-12-12-12-12-1
0523-025	B02	Roof Special	6	1	Job Reference (optional)	T31541622

Run: 8.97 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Tue Sep 12 09:13:32 ID:kITbK3LG0JlihcXucv3v01zII_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:80.7

Plate Offsets (X, Y)	[2:0-3-1.0-0-4], [4:0-2-	8,0-3-0], [8:0-5-4,0-3-0], [10:0-3-4,Edge],	[13:0-2-8.0-3-0], [16:0-2-8.0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.12	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.25	16-17	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.06	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 224 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied.

5-15, 7-15 WEBS 1 Row at midpt REACTIONS (size) 2=0-3-8, 10=0-3-8, 13=0-3-8

Max Horiz 2=-135 (LC 10)

Max Uplift 2=-40 (LC 12), 10=-120 (LC 12),

13=-98 (LC 12)

Max Grav 2=1321 (LC 1), 10=340 (LC 22),

13=1952 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 6-7=-1272/187, 7-8=-1172/83, 8-9=-257/826,

9-10=-132/329, 10-11=0/25, 1-2=0/40, 2-5=-2300/189, 5-6=-1264/183

BOT CHORD 2-17=-90/2057, 14-17=-92/2055

12-14=-769/313, 10-12=-280/111 8-13=-1604/265, 9-13=-752/622,

6-15=-3/568, 5-15=-761/126, 4-17=0/206, 4-16=-460/76, 5-16=0/409, 9-12=-223/187,

8-14=-259/1906, 7-14=-536/183,

7-15=-54/217

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft: L=42ft: eave=5ft: Cat. II: Exp B: Enclosed: MWFRS (directional) and C-C Exterior(2E) -1-9-0 to 2-5-6, Interior (1) 2-5-6 to 18-7-13, Exterior(2R) 18-7-13 to 22-10-4, Interior (1) 22-10-4 to 43-9-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch 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
- * 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 40 lb uplift at joint 2, 98 lb uplift at joint 13 and 120 lb uplift at joint 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.

LOAD CASE(S) Standard



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 12,2023



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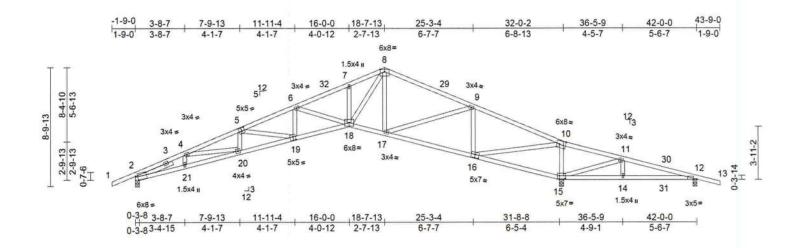
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Job	Truss	Truss Type	Qty	Ply	Robinson	
0523-025	B03	Roof Special	3	1	Job Reference (optional)	T31541623

Run: 8.97 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Tue Sep 12 09:13:32 ID:pG IRMKTpCw8NNqzr2MtXzIHzE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:82.6

Plate Offsets (X Y)	[2:0-1-15 0-4-1] [5:0-2-8 0-3-0]	[10:0-5-8 0-3-0] [12:0-3-4 Edge]	[15:0-5-4,0-2-12], [16:0-3-8,0-3-0]	[19:0-2-4.0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.31	19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.62	18-19	>615	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.36	15	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		UNIVERSITY IN				Markets	Weight: 219 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 3-0-0

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 12=0-3-8, 15=0-3-8

Max Horiz 2=-135 (LC 10)

Max Uplift 2=-43 (LC 12), 12=-201 (LC 21),

15=-84 (LC 12)

2=1195 (LC 1), 12=130 (LC 22), Max Grav

15=2409 (LC 1)

(lb) - Maximum Compression/Maximum FORCES

Tension

TOP CHORD 8-9=-1546/107, 9-10=-687/9,

10-11=-300/2219, 11-12=0/1434, 12-13=0/25,

1-2=0/40, 2-4=-3574/234, 4-6=-3924/240,

6-7=-2580/115, 7-8=-2546/163

14-15=-1351/0, 12-14=-1351/0

2-21=-162/3291, 20-21=-169/3325, 18-20=-132/3721, 17-18=0/1389,

15-17=-2385/633

WEBS 8-18=-85/1831, 10-15=-1496/188

11-15=-852/649, 11-14=-228/221, 7-18=-190/91, 8-17=-303/66, 9-17=-12/790

9-16=-1001/186, 10-16=-234/2896, 6-18=-793/127, 4-21=-65/54, 4-20=0/388,

5-20=0/118, 5-19=-546/102, 6-19=0/345

NOTES

BOT CHORD

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-9-0 to 2-5-6, Interior (1) 2-5-6 to 18-7-13, Exterior(2R) 18-7-13 to 22-10-4, Interior (1) 22-10-4 to 43-9-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch 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.
- * 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 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 15, 201 lb uplift at joint 12 and 43 lb uplift at joint 2.
- 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



Julius Lee PE No. 34869 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

September 12,2023



🔼 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

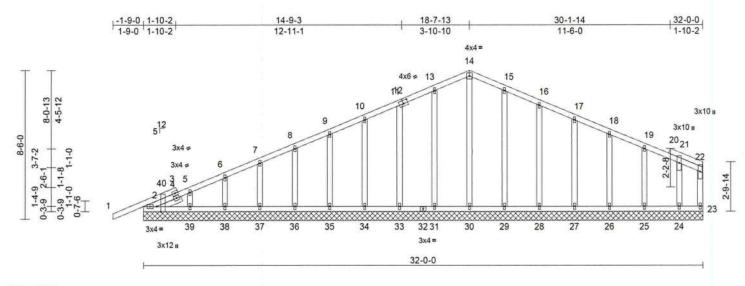
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven buckling of individual truss web and/or chord mebers only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord mebers 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 ANS/ITHI 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	Robinson	
0523-025	B04GE	Common Supported Gable	1	1	Job Reference (optional)	T31541624

Run: 8.97 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Tue Sep 12 09:13:33 ID:HhyUr2MSfCiYebl910yg_7zlHrU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:63.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	*	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	23	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 211 lb	FT = 20%

1-2=0/39 2-5=-139/106 5-6=-131/109

9-10=-101/142, 10-11=-93/173,

11-13=-100/206, 13-14=-110/235

14-15=-110/235, 15-16=-100/206,

16-17=-88/173, 17-18=-78/142,

14-30=-122/13, 13-31=-127/53,

17-27=-120/58, 18-26=-120/58,

19-25=-119/74, 21-24=-112/104

22-23=-29/26

23-24=-38/55

6-7=-124/101, 7-8=-116/95, 8-9=-109/110,

18-19=-67/110, 19-21=-49/78, 21-22=-43/54,

2-39=-40/56, 38-39=-38/55, 37-38=-38/55,

36-37=-38/55, 35-36=-38/55, 34-35=-38/55,

33-34=-38/55, 31-33=-38/55, 30-31=-38/55

29-30=-38/55, 28-29=-38/55, 27-28=-38/55,

26-27=-38/55, 25-26=-38/55, 24-25=-38/55,

11-33=-119/62, 10-34=-120/58, 9-35=-120/58,

8-36=-121/59, 7-37=-117/57, 6-38=-131/69,

5-39=-62/24, 15-29=-127/53, 16-28=-119/62,

LUMBER 2x4 SP No.2 TOP CHORD **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 WEBS **OTHERS** 2x4 SP No.2 SLIDER Left 2x4 SP No.2 -- 1-6-0 BRACING TOP CHORD

Structural wood sheathing directly applied. except end verticals

BOT CHORD Rigid ceiling directly applied.

Plate Offsets (Y. V): [2:0.3-8 Edge] [12:0.3-0.0-2-4]

REACTIONS (size) 2=32-0-0, 23=32-0-0, 24=32-0-0, 25=32-0-0, 26=32-0-0, 27=32-0-0, 28=32-0-0, 29=32-0-0, 30=32-0-0, 31=32-0-0, 33=32-0-0, 34=32-0-0, 35=32-0-0, 36=32-0-0, 37=32-0-0, 38=32-0-0, 39=32-0-0 Max Horiz 2=163 (LC 11)

Max Uplift 2=-89 (LC 12), 24=-22 (LC 12),

25=-7 (LC 12), 26=-9 (LC 12), 27=-8 (LC 12), 28=-11 (LC 12), 29=-3 (LC 12), 31=-3 (LC 12), 33=-11 (LC 12), 34=-8 (LC 12), 35=-8 (LC 12), 36=-9 (LC 12),

37=-6 (LC 12), 38=-16 (LC 12) 2=311 (LC 1), 23=33 (LC 17), 24=148 (LC 18), 25=161 (LC 1). 26=160 (LC 22), 27=160 (LC 22). 28=159 (LC 1), 29=167 (LC 22), 30=160 (LC 17), 31=167 (LC 21), 33=159 (LC 1), 34=160 (LC 21), 35=160 (LC 1), 36=161 (LC 21), 37=157 (LC 1), 38=173 (LC 21),

39=100 (LC 3) **FORCES** (lb) - Maximum Compression/Maximum

Tension

NOTES

WEBS

TOP CHORD

BOT CHORD

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

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-9-0 to 1-5-6, Exterior(2N) 1-5-6 to 18-7-13, Corner(3R) 18-7-13 to 21-10-4, Exterior(2N) 21-10-4 to 31-10-4 zone; cantilever left and right exposed; end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60

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 6)
- Gable studs spaced at 2-0-0 oc. 7)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 2, 3 lb uplift at joint 31, 11 lb uplift at joint 33, 8 lb uplift at joint 34, 8 lb uplift at joint 35, 9 lb uplift at joint 36, 6 lb uplift at joint 37, 16 lb uplift at joint 38, 3 lb uplift at joint



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September 12,2023

Continued on page 3
WARNING - Ver

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design valid for use only with 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 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 properly 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	Robinson	
0523-025	B04GE	Common Supported Gable	1	1	Job Reference (optional)	T31541624

Run: 8.97 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Tue Sep 12 09:13:33 ID:HhyUr2MSfCiYebi910yg_7zIHrU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

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.

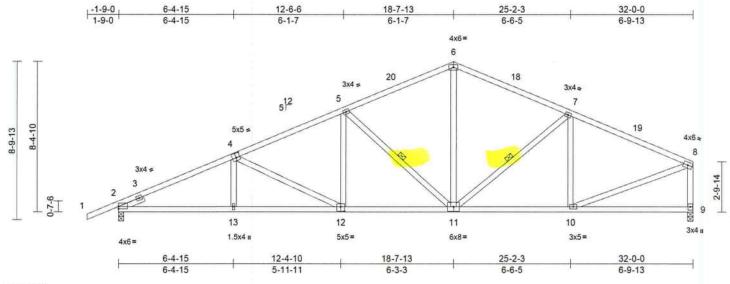
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Robinson	15500000000000000000000000000000000000
0523-025	B05	Common	5	1	Job Reference (optional)	T31541625

Run: 8.97 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Tue Sep 12 09:13:34 ID:14iwMfbxCTBJ?CldVzOWYFzIHxd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.12	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.26	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		57 105%					Weight: 182 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied. WEBS 1 Row at midpt 7-11. 5-11

REACTIONS (size) 2=0-3-8 9=0-3-8

Max Horiz 2=170 (LC 11) Max Uplift 2=-43 (LC 12)

Max Grav 2=1382 (LC 1), 9=1271 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 6-7=-1424/132, 7-8=-1488/94, 8-9=-1205/88, 1-2=0/40, 2-5=-2440/109, 5-6=-1417/141

BOT CHORD 2-13=-134/2184, 10-13=-131/2182,

9-10=-33/77

WEBS 8-10=-43/1330, 6-11=0/683, 7-11=-211/77, 7-10=-346/102, 4-13=0/201, 4-12=-450/38,

5-12=0/406, 5-11=-760/66

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-9-0 to 1-5-6, Interior (1) 1-5-6 to 18-7-13, Exterior(2R) 18-7-13 to 21-10-4, Interior (1) 21-10-4 to 31-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) 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.
- * 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 43 lb uplift at joint
- 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



September 12,2023



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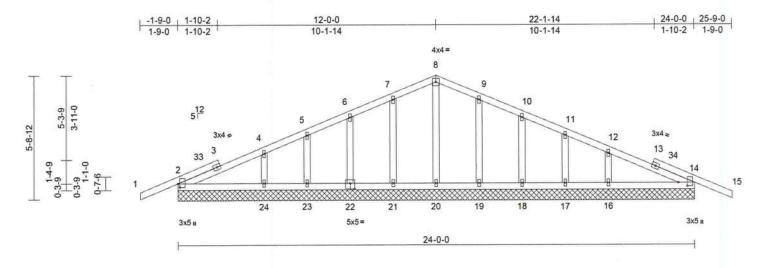
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design valid for use only with Mile exe connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters 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	Robinson	
0523-025	C01GE	Common Supported Gable	1	1	Job Reference (optional)	T31541626

Run: 8.97 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Tue Sep 12 09:13:34 ID:aDIrc?qr0h9nMqwiSm9MBszIHsA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:51.4

Plate Offsets (X, Y):	[2:0-2-0,0-1-0],	[14:0-2-0,0-5-0], [2:	2:0-2-8,0-3-0]									
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a		n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	14	n/a	n/a	I SAN TO	
RCDI	10.0	Code	FRC2020/TPI2014	Matrix-MS		32 /8					Weight: 125 lb	FT = 20%

LUMBER TOP CHORD

2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

BRACING TOP CHORD

OTHERS

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

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

REACTIONS (size)

2=24-0-0, 14=24-0-0, 16=24-0-0, 17=24-0-0, 18=24-0-0, 19=24-0-0, 20=24-0-0, 21=24-0-0, 22=24-0-0, 23=24-0-0, 24=24-0-0, 25=24-0-0, 29=24-0-0

Max Horiz 2=-77 (LC 10), 25=-77 (LC 10) 2=-45 (LC 12), 14=-45 (LC 12), 17=-13 (LC 12), 18=-7 (LC 12), Max Uplift 19=-9 (LC 12), 21=-9 (LC 12), 22=-7 (LC 12), 23=-13 (LC 12),

25=-45 (LC 12), 29=-45 (LC 12) Max Grav 2=270 (LC 21), 14=270 (LC 22), 16=271 (LC 1), 17=118 (LC 22), 18=169 (LC 1), 19=167 (LC 22), 20=149 (LC 1), 21=167 (LC 21), 22=169 (LC 1), 23=118 (LC 21), 24=271 (LC 1), 25=270 (LC 21),

29=270 (LC 22) FORCES

(lb) - Maximum Compression/Maximum Tension TOP CHORD

1-2=0/40, 2-4=-72/68, 4-5=-57/36, 5-6=-44/60, 6-7=-52/92, 7-8=-64/124, 8-9=-64/124, 9-10=-52/92, 10-11=-39/60, 11-12=-36/30, 12-14=-51/45, 14-15=0/40

BOT CHORD 2-24=-10/88, 23-24=-10/88, 21-23=-10/88 20-21=-10/88, 19-20=-10/88, 18-19=-10/88, 17-18=-10/88, 16-17=-10/88, 14-16=-10/88 WEBS

8-20=-108/0 7-21=-128/58 6-22=-125/61 5-23=-93/53 4-24=-196/83 9-19=-128/58 10-18=-125/61, 11-17=-93/53, 12-16=-196/83

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-9-0 to 1-3-0, Exterior(2N) 1-3-0 to 12-0-0, Corner(3R) 12-0-0 to 15-0-0, Exterior(2N) 15-0-0 to 25-9-0 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 2, 45 lb uplift at joint 14, 9 lb uplift at joint 21, 7 lb uplift at joint 22, 13 lb uplift at joint 23, 9 lb uplift at joint 19, 7 lb uplift at joint 18, 13 lb uplift at joint 17, 45 lb uplift at joint 2 and 45 lb uplift at joint 14.

11) Beyeled plate or shim required to provide full bearing surface with truss chord at joint(s) 14, 29.

LOAD CASE(S) Standard



September 12,2023



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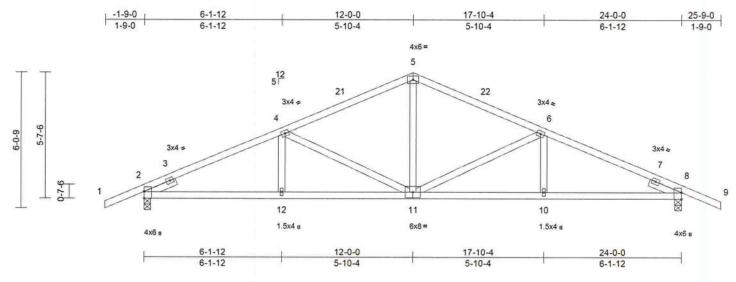
Design valid for use only with MiTek® connectors. This design is based only upon parameters when, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 properly andage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP11 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	Robinson	
0523-025	C02	Common	6	1	Job Reference (optional)	T31541627

Run: 8.97 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Tue Sep 12 09:13:34 ID:XdKbyAKZ4uloBQK90aTb_vzIHwh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Diata Officate	IV VI.	12-Edga 0 0 01	10. Fdaa 0 0 01
riale Ulisels	(A, T).	12.E000.U-U-U1	. [8:Edge.0-0-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.08	10-11	>999	240	100 000 000 000 000 000 000 000 000 000	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.17	10-11	>999	180	WIZO	244/130
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	100000000000000000000000000000000000000	0.06	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Constant Table					Weight: 118 lb	FT = 20%

LUMBER

BRACING

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

SLIDER Left 2x4 SP No.2 -- 1-6-0, Right 2x4 SP No.2

-- 1-6-0

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied.

REACTIONS 2=0-3-8, 8=0-3-8 (size)

Max Horiz 2=81 (LC 11)

Max Uplift 2=-155 (LC 12), 8=-155 (LC 12) Max Grav 2=1065 (LC 1), 8=1065 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/40, 2-4=-1728/330, 4-5=-1267/293, 5-6=-1267/293, 6-8=-1728/330, 8-9=0/40

BOT CHORD 2-12=-212/1547, 10-12=-224/1547,

8-10=-224/1539

WEBS 4-12=0/207, 4-11=-522/149, 5-11=-53/572,

6-11=-523/149, 6-10=0/207

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-9-0 to 1-3-0, Interior (1) 1-3-0 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior (1) 15-0-0 to 25-9-0 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
- * 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 155 lb uplift at joint 2 and 155 lb uplift at joint 8.
- 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



Julius Lee PE No. 34869 MITek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

September 12,2023



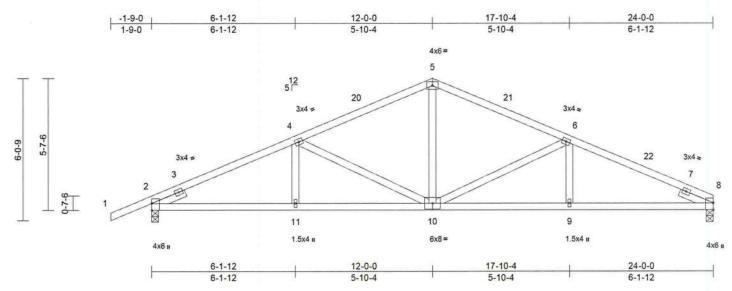
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Job	Truss	Truss Type	Qty	Ply	Robinson	
0523-025	C03	Common	2	1	Job Reference (optional)	T31541628

Run: 8.97 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Tue Sep 12 09:13:35 ID:usfwaibNufWgqo0OJBtltYzIHwL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:47.2

Plate Offsets (X, Y):	[2:Edge,0-0-0].	[8:Edge,0-0-0]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	1./d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	- Contract Contract	10-11	>999	240		244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.17	10-11	>999	180		2111100
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.05	8	n/a	n/a	2000-000-000-000-000-000-000-000-000-00	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 116 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-6-0, Right 2x4 SP No.2

-- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 8=0-3-8

Max Horiz 2=80 (LC 11)

Max Uplift 2=-157 (LC 12), 8=-111 (LC 12) Max Grav 2=1069 (LC 1), 8=956 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/40, 2-4=-1737/337, 4-5=-1276/294, TOP CHORD

5-6=-1277/300, 6-8=-1759/344

BOT CHORD 2-11=-254/1548, 9-11=-254/1571,

8-9=-252/1571

4-11=0/207, 5-10=-60/575, 4-10=-523/149, WEBS

6-9=0/210, 6-10=-546/154

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-9-0 to 1-3-0, Interior (1) 1-3-0 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior (1) 15-0-0 to 24-0-0 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
- 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 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 111 lb uplift at joint 8 and 157 lb uplift at joint 2.
- 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



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

September 12,2023



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Design valid for use only with MITeN® 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 buckling of individual truss was under or but members only. Additional temporary and permanent bracing is always required for stability and to prevent occlaipse 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	Robinson	
0523-025	C04	Common	4	1	Job Reference (optional)	T31541629

Run: 8.97 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Tue Sep 12 09:13:35 ID:fggMqFu2?Lg7KeQCHxpcOpzlHvy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

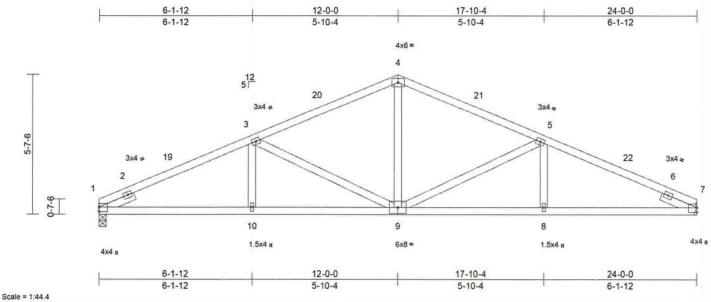


Plate Offsets (X, Y): [1:Edge,0-0-0], [7:Edge,0-0-0], [7:0-0-0,0-0-0]

Empression with the little				100							V-12	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.07	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.16	9-10	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		- No. 200				5575.	Weight: 113 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-6-0, Right 2x4 SP No.2

-- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied.

REACTIONS 1=0-3-8, 7= Mechanical (size)

Max Horiz 1=-71 (LC 10) Max Uplift 1=-112 (LC 12), 7=-112 (LC 12)

Max Grav 1=960 (LC 1), 7=960 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-3=-1768/346, 3-4=-1285/302, 4-5=-1285/302, 5-7=-1768/346

BOT CHORD 1-10=-260/1579, 8-10=-260/1579, 7-8=-254/1579

3-10=0/210, 4-9=-62/582, 3-9=-547/154,

WEBS 5-8=0/210, 5-9=-547/154

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior (1) 15-0-0 to 24-0-0 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.

- 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 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 1 and 112 lb uplift at joint 7.
- 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



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

September 12,2023



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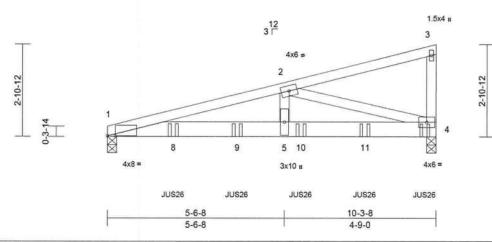
Job Truss Truss Type Qty Ply Robinson T31541630 0523-025 GIR01 Monopitch Girder 2 Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.97 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Tue Sep 12 09:13:35 ID:j57u6?UnTOrAjAgcekC5t9zIHvB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:34.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.09	5-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.17	5-7	>713	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS						Personal Control	Weight: 102 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x6 SP SS 2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-1 oc purlins, except end verticals **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=0-3-8, 4=0-3-8

Max Horiz 1=72 (LC 18)

Max Uplift 1=-297 (LC 8), 4=-412 (LC 8) Max Grav 1=2308 (LC 1), 4=3196 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=-5805/760, 2-3=-156/41, 3-4=-115/40

TOP CHORD

BOT CHORD 1-5=-718/5629, 4-5=-718/5629 2-5=-281/2645, 2-4=-5750/769

NOTES

2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.

- Web connected as follows: 2x4 1 row at 0-9-0 oc. 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.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- 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 297 lb uplift at joint 1 and 412 lb uplift at joint 4.
- 8) Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 9-11-4 to connect truss(es) to back face of bottom chord.
- 9) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-3=-60, 1-4=-20 Concentrated Loads (lb)

Vert: 4=-948 (B), 8=-936 (B), 9=-940 (B), 10=-940 (B), 11=-940 (B)



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

September 12,2023



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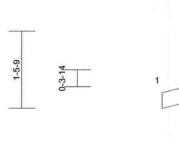


Job	Truss	Truss Type	Qty	Ply	Robinson	
0523-025	M01	Jack-Open Supported Gable	2	1	Job Reference (optional)	T31541631

Run: 8.97 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Tue Sep 12 09:13:36 ID:5mC2qrcZF9uLC3YFO_r8T3zIHsS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





3 7 3x4 = 1.5x4 II 3 3x4 = 4 5 4x8 ı

4-0-0

Scale = 1:20.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a		n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		(1-1980)					Weight: 18 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied. REACTIONS (size) 2=4-0-0, 5=4-0-0 Max Horiz 2=25 (LC 11)

Max Uplift 2=-109 (LC 12)

Max Grav 2=370 (LC 1), 5=53 (LC 3) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 4-5=-59/7, 1-2=0/33, 2-4=-29/24

BOT CHORD 2-5=-12/15

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-9-0 to 1-1-4, Exterior(2N) 1-1-4 to 3-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint
- 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.

LOAD CASE(S) Standard

P. N. 3 ONA Julius Lee PE No. 34869

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

September 12,2023



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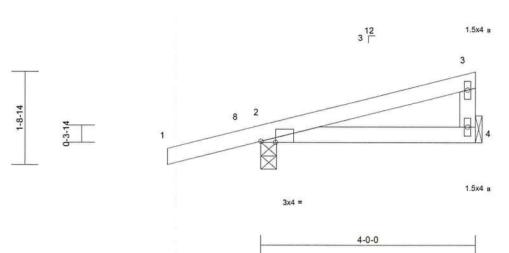


Job Qty Truss Ply Truss Type Robinson T31541632 0523-025 M₀2 Jack-Closed 1 Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.97 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Tue Sep 12 09:13:36 ID:Uv8LMYoTa4_dD04QcU8zOQzIHuo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:20.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	-0.02	4-7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Telegraphic (IV)				. 700.00	Weight: 16 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied. REACTIONS (size) 2=0-3-8, 4= Mechanical

Max Horiz 2=33 (LC 11)

Max Uplift 2=-53 (LC 12)

Max Grav 2=283 (LC 1), 4=130 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/25, 2-3=-76/29, 3-4=-87/79

BOT CHORD 2-4=-32/90

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-9-0 to 1-1-0, Interior (1) 1-1-0 to 3-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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.
- Refer to girder(s) for truss to truss connections

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint
- 7) 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

THE NO. 3 JULIUS LEE ONAL

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

September 12,2023

Page: 1



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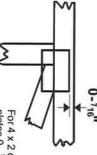


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

*Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

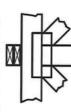
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated

BEARING



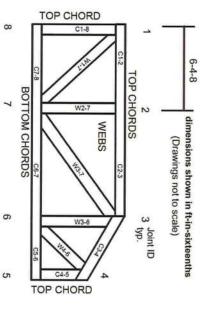
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur Min size shown is for crushing only.

Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction. DSB-22: Design Standard for Bracing.

Design Standard for Bracing.
Building Component Safety Information,
Guide to Good Practice for Handling,
Installing, Restraining & Bracing of Metal
Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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ZIIO,

MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 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 Tor I 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.
- Cut members to bear tightly against each other

S

- 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.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- 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.
- Connections not shown are the responsibility of others.

15

- Do not cut or alter truss member or plate without prior approval of an engineer.
- 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.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.