

Lumber design values are in accordance with ANSI/TPI 1-2007 section 6.3 These truss designs rely on lumber values established by others.

RE: 3894016 - Furr, Mayview B

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Project Customer: Furr Construction Project Name:

Lot/Block: 1A Subdivision: SHADY GROVE

Address:

City: State: NC

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:

Address:

City, County: State:

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

Design Code: IRC2015/TPl2014 Design Program: MiTek 20/20 8.6

Wind Code: ASCE 7-10 Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-10

Wind Speed: 130 mph

Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 30 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Job ID#	Truss Name	e Date	No.	Seal#	Job ID#	Truss Name	e Date
1	163825339 163825340	3894016 3894016	A01 A02	2/26/24	25	163825362 163825363	3894016 3894016	V01 V02	2/26/24
2 3	163825341	3894016	A03	2/26/24 2/26/24	26	163825364	3894016	V03	2/26/24 2/26/24
4 5	163825342 163825343	3894016 3894016	A04	2/26/24 2/26/24	27 28	163825365 163825366	3894016 3894016	V04 V05	2/26/24 2/26/24
6	163825344	3894016	A06	2/26/24	29	163825367	3894016	V06	2/26/24
7 8	163825345 163825346	3894016 3894016	A07 A08	2/26/24 2/26/24	30	163825368	3894016	V07	2/26/24
8 9 10	163825347 163825348	3894016 3894016	A09 B01	2/26/24 2/26/24					
11	163825349	3894016	B02	2/26/24					
12 13	163825350 163825351	3894016 3894016	B03 D01	2/26/24 2/26/24					
14	163825352	3894016	-	2/26/24					
16 17	163825353 163825354	3894016 3894016	D03 D04	2/26/24 2/26/24					
17 18	163825355 163825356	3894016 3894016	E02	2/26/24 2/26/24					
18 19	163825357	3894016	E03	2/26/24					
20 21	163825358 163825359	3894016 3894016	G01 G02	2/26/24 2/26/24					
22 23	163825360 163825361	3894016 3894016	G03 PB01	2/26/24 2/26/24					

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Sumter,SC.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2024.

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.



February 26,2024

Gilbert, Eric

Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	A01	Common Supported Gable	1	1	Job Reference (optional)	163825339

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 23 10:50:22 ID:UolyNl2sxuK2di9HW2fTBezPn2N-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

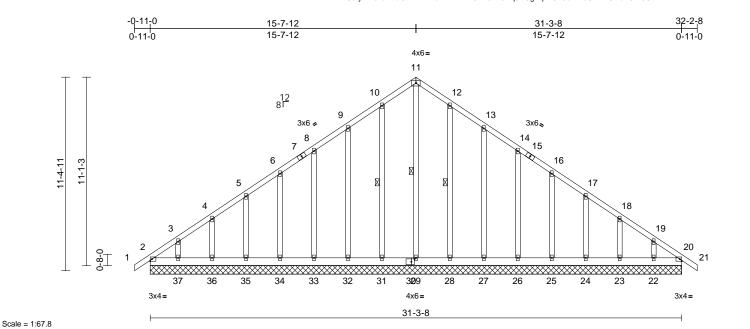


Plate Offsets (X, Y): [30:0-2-4,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 253 lb	FT = 20%

LUMBER TOP CHORD TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.3 OTHERS **BRACING** TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc **BOT CHORD** bracing. WEBS 1 Row at midnt 11-29, 10-31, 12-28 2=31-3-8, 20=31-3-8, 22=31-3-8, **REACTIONS** (size) 23=31-3-8, 24=31-3-8, 25=31-3-8, 26=31-3-8, 27=31-3-8, 28=31-3-8, 29=31-3-8, 31=31-3-8, 32=31-3-8, 33=31-3-8, 34=31-3-8, 35=31-3-8, 36=31-3-8, 37=31-3-8, 38=31-3-8 **WEBS** Max Horiz 2=368 (LC 11), 38=368 (LC 11) Max Uplift 2=-174 (LC 8), 23=-225 (LC 13).

26=-99 (LC 13), 27=-112 (LC 13), 28=-86 (LC 13), 29=-12 (LC 11), 31=-94 (LC 12), 32=-109 (LC 12), 33=-102 (LC 12), 34=-102 (LC 12), 36=-91 (LC 12), 37=-162 (LC 12), 38=-174 (LC 8)

Max Grav 2=231 (LC 9), 22=315 (LC 1), 23=162 (LC 11), 24=190 (LC 20), 25=178 (LC 20), 26=181 (LC 20), 27=180 (LC 20), 28=188 (LC 20), 29=366 (LC 13), 31=196 (LC 19), 32=177 (LC 19), 33=181 (LC 19), 34=180 (LC 19), 35=183 (LC 19), 34=180 (LC 19), 35=183 (LC 19),

36=174 (LC 19), 37=216 (LC 19),

24=-70 (LC 13), 25=-111 (LC 13),

38=231 (LC 9) (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/31, 2-3=-346/334, 3-4=-300/303, 4-5=-253/273, 5-6=-207/252, 6-8=-184/255, 8-9=-202/302, 9-10=-272/353, 10-11=-330/389, 11-12=-330/380, 12-13=-272/311, 13-14=-202/227, 14-16=-138/150, 16-17=-71/106,

17-18=-49/117, 18-19=-144/137, 19-18=-49/117, 18-19=-144/137, 19-20=-202/184, 20-21=0/31 2-37=-272/277, 36-37=-187/229, 35-36=-187/229, 34-35=-187/229,

35-36=-187/229, 34-35=-187/229, 31-32=-187/229, 31-32=-187/229, 29-31=-187/229, 28-29=-187/229, 27-28=-187/229, 26-27=-187/229, 25-26=-187/229, 24-25=-187/229, 23-24=-187/229, 21-29=-342/223, 10-31=-156/118, 9-32=-165/133, 8-33=-157/125,

9-32=-165/133, 8-33=-157/125, 6-34=-158/127, 5-35=-158/126, 4-36=-161/127, 3-37=-154/126, 12-28=-148/110, 13-27=-165/136, 14-26=-157/125, 16-25=-159/128, 17-24=-157/121, 18-23=-175/150, 19-22=-143/93

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-11-0 to 2-1-0, Exterior (2) 2-1-0 to 15-7-12, Corner (3) 15-7-12 to 18-7-12, Exterior (2) 18-7-12 to 32-2-8 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

 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.

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- 4) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.



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Continued on page 2

FORCES

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.sbcacomponents.com)



ſ	Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
	3894016	A01	Common Supported Gable	1	1	Job Reference (optional)	

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10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 174 lb uplift at bearing plate capable of withstanding 174 ib uplift at joint 2, 12 ib uplift at joint 29, 194 ib uplift at joint 31, 109 lb uplift at joint 32, 102 lb uplift at joint 33, 102 lb uplift at joint 34, 106 lb uplift at joint 35, 91 lb uplift at joint 36, 162 lb uplift at joint 37, 86 lb uplift at joint 28, 112 lb uplift at joint 27, 99 lb uplift at joint 26, 111 lb uplift at joint 25, 70 lb uplift at joint 24, 225 lb uplift at joint 23 and 174 lb uplift at joint 2.

11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	A02	Common	1	1	Job Reference (optional)	163825340

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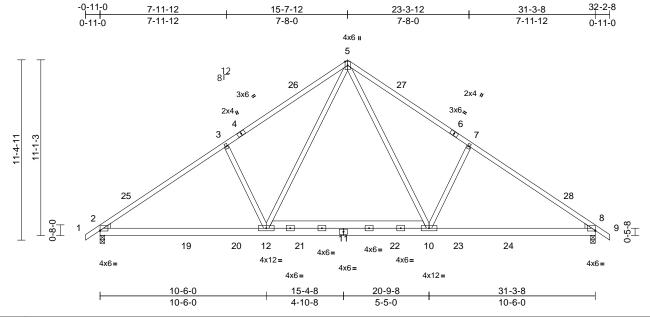


Plate Offsets (X, Y): [2:Edge,0-0-6], [8:Edge,0-0-6]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.10	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.17	10-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.08	12-15	>999	240	Weight: 209 lb	FT = 20%

LUMBER

Scale = 1:72.8

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.3 WEBS Left: 2x4 SP No 3 WEDGE Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=-368 (LC 10)

Max Uplift 2=-341 (LC 12), 8=-341 (LC 13)

Max Grav 2=1411 (LC 19), 8=1411 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-1913/456, 3-5=-1775/573, 5-7=-1774/572, 7-8=-1912/456, 8-9=0/31

BOT CHORD 2-12=-452/1745, 10-12=-109/1123,

8-10=-233/1495

WFBS 3-12=-556/452, 5-12=-337/943, 5-10=-337/942, 7-10=-556/452

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 15-7-12, Exterior (2) 15-7-12 to 18-7-12, Interior (1) 18-7-12 to 32-2-8 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
- All plates are 4x6 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, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 341 lb uplift at joint 2 and 341 lb uplift at joint 8.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 26,2024



Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	A03	Roof Special	3	1	Job Reference (optional)	163825341

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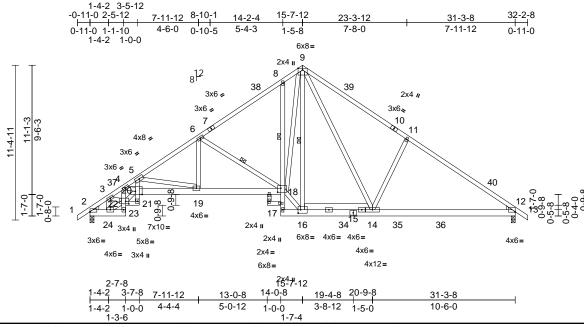


Plate Offsets (X, Y): [2:Edge,0-0-6], [12:Edge,0-0-6], [16:0-2-4,0-3-0], [18:0-2-12,0-3-8], [20:0-6-0,Edge], [22:0-2-12,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.15	19-20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.31	19-20	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.23	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.20	19-20	>999	240	Weight: 252 lb	FT = 20%

LUMBER

Scale = 1:84.8

TOP CHORD 2x4 SP No.2 BOT CHORD

2x4 SP No.2 *Except*

2-23.20-18.17-15.15-12.16-14:2x6 SP No.2

WFBS 2x4 SP No.3 *Except* 22-20:2x4 SP No.2 WEDGE

Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

TOP CHORD

Structural wood sheathing directly applied.

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

bracing, Except: 2-2-0 oc bracing: 19-20

9-10-6 oc bracing: 18-19.

1 Row at midpt 8-18

6-0-0 oc bracing: 17-18 **WEBS** 1 Row at midpt 9-16, 6-18

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

Max Horiz 2=-368 (LC 10)

Max Uplift 2=-341 (LC 12), 12=-341 (LC 13)

Max Grav 2=1307 (LC 1), 12=1350 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/31, 2-3=-1561/367, 3-4=-2758/773,

4-5=-5127/1494, 5-6=-2405/640, 6-8=-1606/458, 8-9=-1654/595,

9-11=-1749/573, 11-12=-1795/457,

12-13=0/31

2-24=-489/1449, 23-24=-109/348, **BOT CHORD**

22-23=-57/229, 4-22=-1748/527, 21-22=-167/523, 20-21=-61/219, 5-20=-565/1930, 19-20=-1414/4603, 18-19=-559/2206. 17-18=-343/76. 8-18=-250/265, 16-17=-35/94,

14-16=-115/1097. 12-14=-235/1400

WEBS

9-16=-550/4, 6-19=-107/647, 9-14=-356/786,

3-24=-1185/390, 22-24=-449/1299, 3-22=-320/1149, 5-19=-2455/875,

6-18=-997/442, 11-14=-562/450,

4-20=-587/1978, 20-22=-891/2887, 16-18=-103/1486, 9-18=-472/1591

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 15-7-12, Exterior (2) 15-7-12 to 18-7-12, Interior (1) 18-7-12 to 32-2-8 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
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 341 lb uplift at joint 2 and 341 lb uplift at joint 12.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 26,2024



Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	A04	Roof Special	2	1	Job Reference (optional)	l63825342

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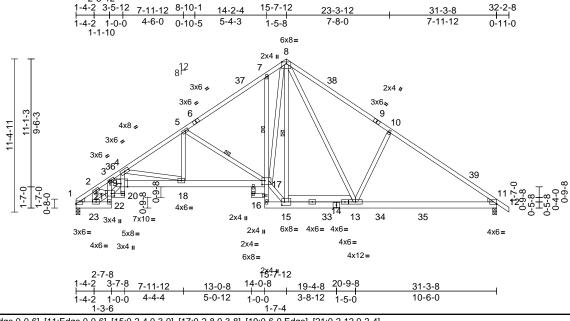


Plate Offsets (X, Y): [1:Edge,0-0-6], [11:Edge,0-0-6], [15:0-2-4,0-3-0], [17:0-2-8,0-3-8], [19:0-6-0,Edge], [21:0-2-12,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.16	18-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.31	18-19	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.23	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.20	18-19	>999	240	Weight: 250 lb	FT = 20%

LUMBER

Scale = 1:85.7

TOP CHORD 2x4 SP No.2 BOT CHORD

2x4 SP No.2 *Except*

1-22,19-17,16-14,14-11,15-13:2x6 SP No.2 WFBS 2x4 SP No.3 *Except* 21-19:2x4 SP No.2

WEDGE Left: 2x4 SP No.3

Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied.

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

bracing, Except:

2-2-0 oc bracing: 18-19

9-10-1 oc bracing: 17-18. 1 Row at midpt 7-17

6-0-0 oc bracing: 16-17

WEBS 1 Row at midpt 8-15, 5-17

REACTIONS 1=0-3-8, 11=0-3-8 (size)

Max Horiz 1=-362 (LC 8)

Max Uplift 1=-311 (LC 12), 11=-341 (LC 13) Max Grav 1=1251 (LC 1), 11=1350 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1554/382, 2-3=-2779/786,

3-4=-5153/1510, 4-5=-2410/643, 5-7=-1608/462, 7-8=-1656/596,

8-10=-1750/573, 10-11=-1795/458,

11-12=0/31

BOT CHORD 1-23=-503/1472, 22-23=-111/351,

21-22=-57/229, 3-21=-1750/528, 20-21=-169/526, 19-20=-62/220, 4-19=-574/1945, 18-19=-1428/4625, 17-18=-562/2211. 16-17=-343/76. 7-17=-250/265. 15-16=-35/94.

13-15=-116/1098, 11-13=-235/1401

WEBS

8-15=-550/4, 5-18=-110/651, 8-13=-356/786,

2-23=-1186/391, 21-23=-462/1321, 2-21=-316/1142, 4-18=-2472/886,

5-17=-1001/444, 10-13=-562/450,

3-19=-590/1983, 19-21=-904/2907

15-17=-104/1488, 8-17=-473/1593

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 15-7-12, Exterior (2) 15-7-12 to 18-7-12, Interior (1) 18-7-12 to 32-2-8 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
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 311 lb uplift at joint 1 and 341 lb uplift at joint 11.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

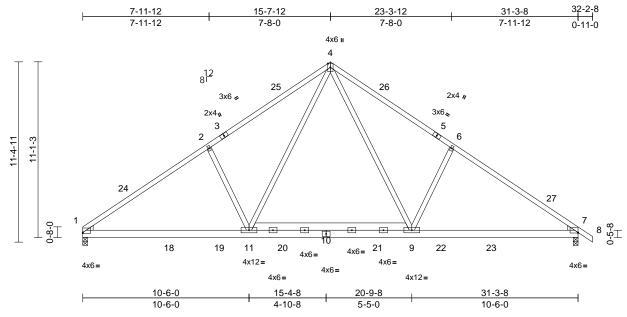


February 26,2024



Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	A05	Common	1	1	Job Reference (optional)	163825343

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 23 10:50:32 ID:hCvXAqsut4BMaHYkcJRn1BzPn6U-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:72.8 Plate Offsets (X, Y): [1:Edge,0-0-10], [7:Edge,0-0-6]

				1				-				
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.10	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.17	9-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.08	11-14	>999	240	Weight: 207 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 2x4 SP No.3 WEBS Left: 2x4 SP No 3 WEDGE Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 1=-362 (LC 10)

Max Uplift 1=-311 (LC 12), 7=-341 (LC 13) Max Grav 1=1357 (LC 19), 7=1411 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1918/465, 2-4=-1780/575,

4-6=-1775/572, 6-7=-1913/457, 7-8=0/31

BOT CHORD 1-11=-446/1748, 9-11=-110/1125,

7-9=-233/1496

WFBS 2-11=-555/452. 4-11=-340/948. 4-9=-337/942, 6-9=-556/452

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 15-7-12, Exterior (2) 15-7-12 to 18-7-12, Interior (1) 18-7-12 to 32-2-8 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
- All plates are 4x6 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, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 311 lb uplift at joint 1 and 341 lb uplift at joint 7.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



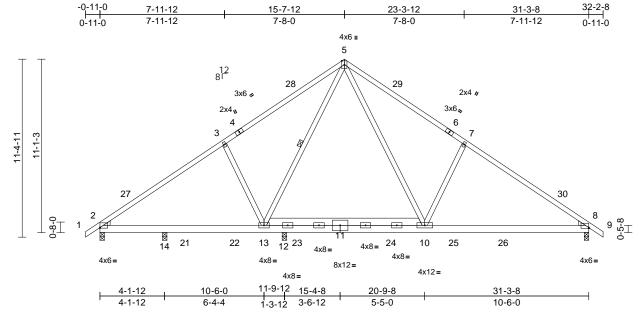
February 26,2024



Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	A06	Common	2	1	Job Reference (optional)	63825344

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 23 10:50:32 ID:hZYf0uuCsCvIGLY44gSj_6zPn59-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:73.7 Plate Offsets (X, Y): [2:Edge,0-0-6], [8:Edge,0-0-10]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.08	10-20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.17	10-20	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.09	10-20	>999	240	Weight: 209 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 2x4 SP No.3 WEBS Left: 2x4 SP No 3 WEDGE Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-11 oc purlins.

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

bracing.

WEBS 1 Row at midpt 5-13

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

14=0-3-8

Max Horiz 2=368 (LC 11)

Max Uplift 2=-150 (LC 12), 8=-294 (LC 13), 12=-223 (LC 12), 14=-59 (LC 12)

Max Grav 2=532 (LC 1), 8=1008 (LC 20),

12=1091 (LC 19), 14=322 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/31, 2-3=-637/313, 3-5=-570/346, 5-7=-1094/489, 7-8=-1209/369, 8-9=0/31

BOT CHORD 2-14=-419/573, 13-14=-207/573,

12-13=-27/642, 10-12=-15/506,

8-10=-219/886

3-13=-553/452, 5-13=-481/58

5-10=-321/865, 7-10=-564/453

NOTES

WEBS

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 15-7-12, Exterior (2) 15-7-12 to 18-7-12, Interior (1) 18-7-12 to 32-2-8 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
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 2, 294 lb uplift at joint 8, 59 lb uplift at joint 14 and 223 lb uplift at joint 12.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 26,2024

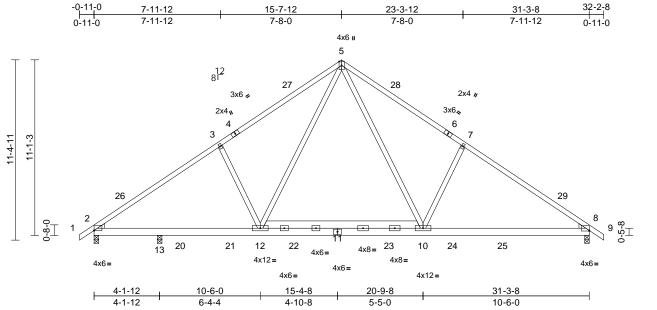
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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



ſ	Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
	3894016	A07	Common	2	1	I6 Job Reference (optional)	3825345

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 23 10:50:33 ID:2nt_eQ9?gygAvkEINHsttlzPn4p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:72.8

Plate Offsets (X, Y): [2:Edge,0-0-2], [8:Edge,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	1.15	TC	0.90	Vert(LL)	-0.11	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.19	10-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.08	10-12	>999	240	Weight: 209 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.3 WEBS Left: 2x4 SP No 3 WEDGE Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8, 8=0-3-8, 13=0-3-8

Max Horiz 2=-368 (LC 10)

Max Uplift 2=-305 (LC 12), 8=-343 (LC 13),

13=-42 (LC 12)

Max Grav 2=1203 (LC 19), 8=1387 (LC 20),

13=240 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-1752/446, 3-5=-1612/547,

5-7=-1736/575, 7-8=-1875/455, 8-9=0/31 2-13=-457/1604. 12-13=-419/1604.

10-12=-98/1064. 8-10=-233/1453

WEBS 3-12=-543/450, 5-12=-307/769,

5-10=-335/972. 7-10=-555/452

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 15-7-12, Exterior (2) 15-7-12 to 18-7-12, Interior (1) 18-7-12 to 32-2-8 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
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 305 lb uplift at joint 2, 343 lb uplift at joint 8 and 42 lb uplift at joint 13.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 26,2024

Page: 1



Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	A08	Common	8	1	Job Reference (optional)	163825346

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 23 10:50:33 ID:Xo0eYCodQxDo9jClQCn4zizPn4?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

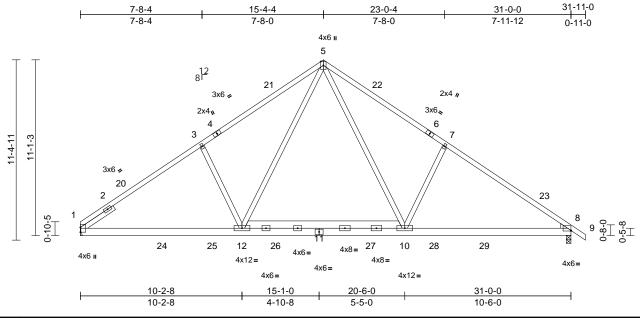


Plate Offsets (X, Y): [8:Edge,0-0-6]

•												•
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.10	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	ВС	0.58	Vert(CT)	-0.17	10-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.08	10-19	>999	240	Weight: 209 lb	FT = 20%

LUMBER

Scale = 1:72.8

TOP CHORD 2x4 SP No.2 2x6 SP No.2 **BOT CHORD** 2x4 SP No.3 WEBS WEDGE Right: 2x4 SP No.3 **SLIDER** Left 2x4 SP No.2 -- 2-6-0

BRACING TOP CHORD

Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing

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

Max Horiz 1=-361 (LC 8)

Max Uplift 1=-306 (LC 12), 8=-339 (LC 13) Max Grav 1=1345 (LC 19), 8=1400 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-1774/457, 3-5=-1716/562,

5-7=-1755/568, 7-8=-1894/452, 8-9=0/31 **BOT CHORD** 1-12=-429/1685, 10-12=-106/1104,

8-10=-232/1479

WEBS 3-12=-520/434, 5-12=-327/882, 5-10=-336/950, 7-10=-554/452

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-3-8 to 3-3-8, Interior (1) 3-3-8 to 15-7-12, Exterior (2) 15-7-12 to 18-7-12, Interior (1) 18-7-12 to 32-2-8 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
- 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.
- Bearings are assumed to be: , Joint 8 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 306 lb uplift at joint 1 and 339 lb uplift at joint 8.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 26,2024



Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	A09	Common Supported Gable	1	1	Job Reference (optional)	163825347

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 23 10:50:34 ID:uZPpILTIE8HrtKU3izoCFWzPn37-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

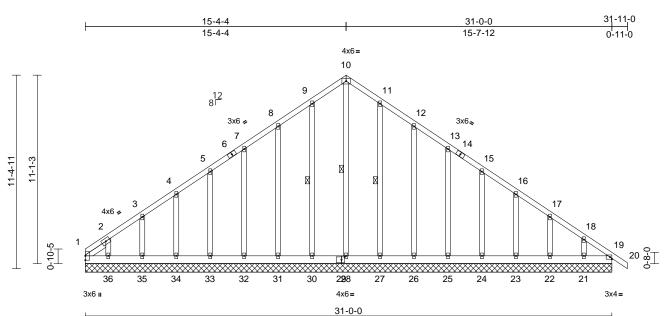


Plate Offsets (X, Y): [29:0-2-4,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	19	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 253 lb	FT = 20%

TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	19	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 253 lb	FT = 20%	
LUMBER			TOP CHORD	1-2=-144/144, 2	-3=-303/30	06, 3-4=-255/	274, 3				or wind loads in th		
TOP CHORD	2x4 SP No.2			4-5=-209/253, 5	-7=-185/25	6, 7-8=-202/	302,	only.	For st	tuds ex	xposed to wind (n	ormal to the face),
BOT CHORD	2x6 SP No.2			8-9=-271/354, 9	-10=-330/3	390,					ustry Gable End D		
OTHERS	2x4 SP No.3			10-11=-330/380	, 11-12=-2	71/311,		or co	onsult q	ualifie	d building designe	er as per ANSI/TI	기 1.
SLIDER	Left 2x4 SP No.2 1	1-5-12		12-13=-202/227	, 13-15=-1	37/149,	4	 All p 	lates ar	re 2x4	MT20 unless other	erwise indicated.	

BRACING

Scale = 1:67.8

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing WFBS 1 Row at midpt 10-28, 9-30, 11-27

REACTIONS (size)

1=31-0-0, 19=31-0-0, 21=31-0-0, 22=31-0-0, 23=31-0-0, 24=31-0-0, 25=31-0-0, 26=31-0-0, 27=31-0-0, 28=31-0-0, 30=31-0-0, 31=31-0-0,

32=31-0-0, 33=31-0-0, 34=31-0-0, 35=31-0-0, 36=31-0-0, 37=31-0-0 Max Horiz 1=-361 (LC 8), 37=-361 (LC 8) Max Uplift 1=-250 (LC 10), 22=-225 (LC 13), 23=-71 (LC 13), 24=-111 (LC 13),

25=-99 (LC 13), 26=-112 (LC 13), 27=-86 (LC 13), 28=-13 (LC 11), 30=-94 (LC 12), 31=-109 (LC 12) 32=-102 (LC 12), 33=-102 (LC 12), 34=-104 (LC 12), 35=-97 (LC 12),

36=-208 (LC 12), 37=-250 (LC 10) 1=291 (LC 9), 21=315 (LC 1), 22=160 (LC 11), 23=191 (LC 20), 24=178 (LC 20), 25=181 (LC 20),

26=180 (LC 20), 27=187 (LC 20), 28=367 (LC 13), 30=196 (LC 19), 31=177 (LC 19), 32=181 (LC 19), 33=180 (LC 19), 34=181 (LC 19), 35=178 (LC 19), 36=256 (LC 19), 37=291 (LC 9)

(lb) - Maximum Compression/Maximum Tension

12-13=-202/227, 13-15=-137/149, 15-16=-71/105, 16-17=-49/116, 17-18=-144/136, 18-19=-202/185,

19-20=0/31

1-36=-188/230, 35-36=-188/230, 34-35=-188/230, 33-34=-188/230,

32-33=-188/230, 31-32=-188/230, 30-31=-188/230, 28-30=-188/230, 27-28=-188/230, 26-27=-188/230, 25-26=-188/230, 24-25=-188/230, 23-24=-188/230, 22-23=-188/230, 21-22=-188/230, 19-21=-188/230

10-28=-343/223, 9-30=-156/118, 8-31=-165/133, 7-32=-157/125, 5-33=-159/127, 4-34=-157/126, 3-35=-162/130, 2-36=-178/179,

11-27=-148/110, 12-26=-165/136, 13-25=-157/125, 15-24=-159/128, 16-23=-157/121, 17-22=-175/150, 18-21=-142/93

NOTES

WEBS

BOT CHORD

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 3-0-0, Exterior (2) 3-0-0 to 15-4-4, Corner (3) 15-4-4 to 18-4-4, Exterior (2) 18-4-4 to 31-11-0 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

Page: 1

- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.



February 26,2024

Continued on page 2

FORCES

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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	A09	Common Supported Gable	1	1	I63825347 Job Reference (optional)	·

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Page: 2

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 250 lb uplift at joint 1, 13 lb uplift at joint 28, 94 lb uplift at joint 30, 109 lb uplift at joint 31, 102 lb uplift at joint 32, 102 lb uplift at joint 33, 104 lb uplift at joint 34, 97 lb uplift at joint 35, 208 lb uplift at joint 36, 86 lb uplift at joint 27, 112 lb uplift at joint 36, 208 lb uplift at joint 36, 244 lb uplift at joint 36, 208 lb uplift at joint 36, 244 lb uplift at joint 36, 208 lb uplift at joint 36, 244 lb uplift at joint 36, 245 lb uplift a at joint 26, 99 lb uplift at joint 25, 111 lb uplift at joint 24, 71 lb uplift at joint 23, 225 lb uplift at joint 22 and 250 lb uplift at joint 1.

11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

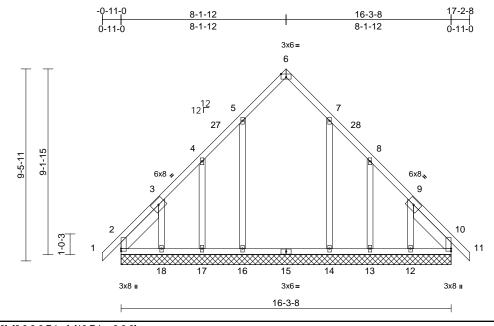
LOAD CASE(S) Standard



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	B01	Common Supported Gable	1	1	Job Reference (optional)	163825348

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 23 10:50:35 ID:G23FkdCW0aln_3mVxRrCPAzPn?b-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:56.9

Plate Offsets (X, Y): [2:Edge,0-0-0], [6:0-3-0,Edge], [10:Edge,0-0-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 116 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 OTHERS 2x4 SP No.3

Left 2x6 SP No.2 -- 2-10-2, Right 2x6 SP SLIDER

No.2 -- 2-10-2

BRACING

TOP CHORD

TOP CHORD 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=16-3-8, 6=16-3-8, 10=16-3-8, 12=16-3-8, 13=16-3-8, 14=16-3-8, 16=16-3-8, 17=16-3-8, 18=16-3-8, 19=16-3-8, 23=16-3-8

Max Horiz 2=-302 (LC 10), 19=-302 (LC 10) Max Uplift 2=-166 (LC 8), 6=-53 (LC 11),

10=-68 (LC 9), 12=-235 (LC 13), 13=-160 (LC 13), 14=-156 (LC 13), 16=-157 (LC 12), 17=-159 (LC 12), 18=-254 (LC 12), 19=-166 (LC 8),

23=-68 (LC 9)

Max Grav 2=251 (LC 20), 6=373 (LC 13) 10=172 (LC 19), 12=242 (LC 20), 13=147 (LC 20), 14=334 (LC 20), 16=335 (LC 19), 17=145 (LC 19),

18=264 (LC 19), 19=251 (LC 20), 23=172 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/39, 2-3=-87/63, 3-4=-192/191,

4-5=-166/243, 5-6=-291/329, 6-7=-291/313, 7-8=-166/190, 8-9=-87/89, 9-10=-83/61,

10-11=0/39

BOT CHORD 2-18=-128/207, 17-18=-128/207

16-17=-128/207, 14-16=-128/207 13-14=-128/207, 12-13=-128/207,

10-12=-128/207

WEBS

5-16=-217/200, 7-14=-217/200, 4-17=-203/181, 3-18=-244/253, 8-13=-203/181, 9-12=-249/237

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-0-0, Interior (1) 2-0-0 to 8-1-12, Exterior (2) 8-1-12 to 11-1-12, Interior (1) 11-1-12 to 17-2-8 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 2, 68 lb uplift at joint 10, 53 lb uplift at joint 6, 157 lb uplift at joint 16, 156 lb uplift at joint 14, 159 lb uplift at joint 17, 254 lb uplift at joint 18, 160 lb uplift at joint 13, 235 lb uplift at joint 12, 166 lb uplift at joint 2 and 68 lb uplift at joint 10.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 23.

12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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/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.sbcacomponents.com)

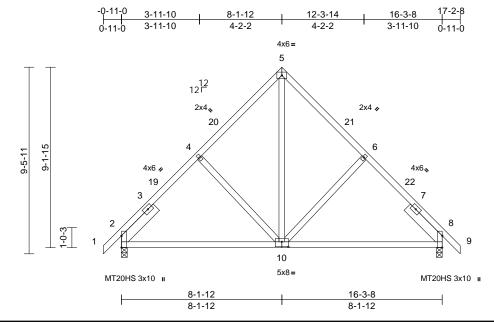


Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	B02	Common	2	1	Job Reference (optional)	163825349

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 23 10:50:35 ID:B1YSjYbz8JV10OAcbq3iPXzPn9Q-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Page: 1



Scale = 1:58.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.Ó	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.06	10-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.12	10-13	>999	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.02	10-13	>999	240	Weight: 105 lb	FT = 20%

LUMBER

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

SLIDER Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2

-- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing

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

Max Horiz 2=302 (LC 11)

Max Uplift 2=-160 (LC 12), 8=-160 (LC 13)

Max Grav 2=707 (LC 1), 8=707 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/39, 2-4=-652/237, 4-5=-633/279,

5-6=-633/279, 6-8=-652/237, 8-9=0/39

BOT CHORD 2-8=-238/556

WEBS 5-10=-222/605, 6-10=-305/289,

4-10=-305/289

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 8-1-12, Exterior (2) 8-1-12 to 11-1-12, Interior (1) 11-1-12 to 17-2-8 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
- All plates are MT20 plates 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 160 lb uplift at joint 2 and 160 lb uplift at joint 8.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

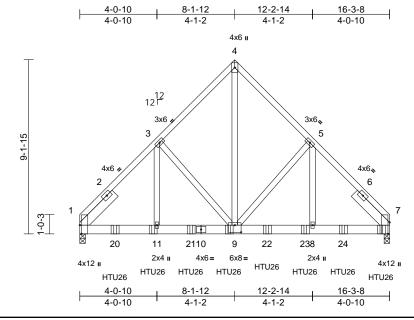


February 26,2024



Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	B03	Common Girder	1	3	Job Reference (optional)	163825350

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Fri Feb 23 10:50:36 ID:9AxuQ2HL3wz99k3cfdx4WyzPn_C-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:60.6

Plate Offsets (X, Y): [1:0-5-8,Edge], [7:0-7-3,Edge], [9:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.05	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.09	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.05	8-9	>999	240	Weight: 382 lb	FT = 20%

LUMBER

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

SLIDER Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2

-- 2-6-0

BRACING TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins

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

bracing

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

Max Horiz 1=-272 (LC 23)

Max Uplift 1=-1296 (LC 9), 7=-1530 (LC 8)

Max Grav 1=5394 (LC 16), 7=6390 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-5783/1454, 3-4=-4240/1173,

4-5=-4242/1174 5-7=-5903/1481

BOT CHORD 1-11=-1045/4127. 9-11=-1045/4127. 8-9=-953/4093, 7-8=-953/4093

WEBS 3-11=-513/2214, 3-9=-1633/608

4-9=-1479/5591, 5-9=-1774/642,

5-8=-557/2395

NOTES

- 3-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 0-6-0 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.

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1296 lb uplift at joint 1 and 1530 lb uplift at joint 7.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-10-4 from the left end to 15-10-4 to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-60, 4-7=-60, 12-16=-20 Concentrated Loads (lb)

Vert: 11=-1219 (B), 9=-1219 (B), 18=-1225 (B),

20=-1219 (B), 21=-1219 (B), 22=-1219 (B), 23=-1219 (B), 24=-1219 (B)



February 26,2024

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



Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	D01	Attic	1	1	Job Reference (optional)	

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Page: 1

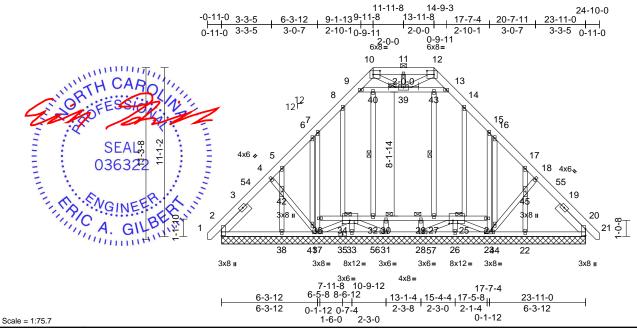


Plate Offsets (X, Y): [2:Edge,0-0-0], [10:0-5-8,0-3-0], [12:0-5-8,0-3-0], [20:Edge,0-0-0], [25:0-3-0,0-2-8], [34:0-5-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 289 lb	FT = 20%

LUMBER TOP CHORD 1-2=0/34, 2-4=-293/180, 4-5=-231/177, 5-6=-254/202, 6-7=-194/199, 7-8=-252/237, TOP CHORD 2x6 SP No.2 8-9=-277/239, 9-10=-227/131, **BOT CHORD** 2x4 SP No.1 10-11=-210/159, 11-12=-210/159, 2x4 SP No.3 *Except* 7-37,15-23,9-13:2x4 WEBS 12-13=-227/131, 13-14=-277/241, SP No 2 14-15=-252/228, 15-16=-147/134, OTHERS 2x4 SP No.3 16-17=-211/138, 17-18=-176/106, SLIDER Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2 18-20=-245/108, 20-21=0/34 -- 2-6-0 **BOT CHORD** 2-38=-190/284, 37-38=-190/284, **BRACING** 33-37=-113/252, 31-33=-81/139, TOP CHORD Structural wood sheathing directly applied or 28-31=-110/190 26-28=-81/142 6-0-0 oc purlins, except 23-26=-54/219, 22-23=-55/216, 2-0-0 oc purlins (6-0-0 max.): 10-12. 20-22=-55/216. 34-36=-3/3. 32-34=-55/130. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc 30-32=-55/130, 29-30=-55/130, bracing. 27-29=-55/130, 25-27=-55/130, 24-25=-3/5 WFRS 1 Row at midpt 32-40, 27-43 WFRS 36-37=-183/154, 7-36=-173/159, **JOINTS** 1 Brace at Jt(s): 39, 23-24=-183/159, 15-24=-173/163, 30, 29, 34, 25 9-40=-173/210, 39-40=-173/210, REACTIONS (size) 2=23-11-0 20=23-11-0 39-43=-173/177, 13-43=-173/177, 22=23-11-0, 23=23-11-0, 4-42=-227/246, 41-42=-210/230,

26=23-11-0, 28=23-11-0,
31=23-11-0, 33=23-11-0,
37=23-11-0, 38=23-11-0,
46=23-11-0, 50=23-11-0

Max Horiz 2=-362 (LC 10), 46=-362 (LC 10)

Max Uplift 2=-91 (LC 8), 20=-34 (LC 9),
22=-11 (LC 13), 23=-432 (LC 13),
33=-69 (LC 9), 37=-381 (LC 12),
38=-23 (LC 12), 46=-91 (LC 8),
50=-34 (LC 9)

Max Grav 2=360 (LC 1), 20=360 (LC 1),

22=360 (LC 1), 20=360 (LC 1), 22=181 (LC 1), 23=373 (LC 21), 26=242 (LC 25), 28=257 (LC 18), 31=257 (LC 18), 33=293 (LC 23),

37=316 (LC 20), 38=181 (LC 1), 46=360 (LC 1), 50=360 (LC 1) (lb) - Maximum Compression/Maximum Unbalanced roof live loads have been considered for this design.

22-45=-113/42

37-41=-253/269, 23-44=-253/271

44-45=-209/232, 18-45=-227/246,

34-37=-119/104, 33-34=-287/111,

31-34=-31/55, 23-25=-125/146,

38-42=-113/45, 27-43=-38/12,

30-31=-144/0, 28-29=-138/0,

10-39=-94/88, 11-39=-111/76, 12-39=-81/88,

25-26=-226/0, 25-28=-31/52, 32-40=-42/25,

14-25=-154/73, 16-44=-58/52, 17-45=-99/32,

8-34=-171/110, 6-41=-58/51, 5-42=-99/26,

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-9-10 to 2-2-6, Interior (1) 2-2-6 to 9-11-8, Exterior (2) 9-11-8 to 17-11-11, Interior (1) 17-11-11 to 24-8-10 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.
 Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.

February 26,2024

Tension

FORCES



Job		Truss	Truss Type	Qty	Ply	Furr, Mayview B	
38940	16	D01	Attic	1	1	I63 Job Reference (optional)	825351

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 23 10:50:38

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- 10) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 2, 34 lb uplift at joint 20, 381 lb uplift at joint 37, 432 lb uplift at joint 23, 69 lb uplift at joint 33, 23 lb uplift at joint 38, 11 lb uplift at joint 22, 91 lb uplift at joint 2 and 34 lb uplift at joint 20.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

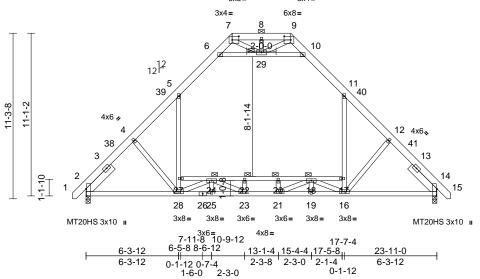


Job Truss Truss Type Qty Ply Furr, Mayview B 163825352 3894016 D02 Attic Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 23 10:50:40 ID:D3ORaXYuCVAcCyhIVbdDqozPnIW-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:78.5

Plate Offsets (X, Y): [2:0-5-13,Edge], [7:0-5-8,0-3-0], [9:0-5-8,0-3-0], [14:0-5-13,Edge]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		Plate Grip DOL	1.15	TC	0.47	Vert(LL)		25-28				244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.31	20-22	>932	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.05	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.22	28-32	>999	240	Weight: 212 lb	FT = 20%

LUMBER TOP CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS *Except*

7-9:2x6 SP No.2 2x4 SP No.1

2x4 SP No.3 *Except* 5-28,11-16,6-10:2x4 **WEBS**

SP No.2

Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2 **SLIDER**

-- 2-6-0

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

5-7-11 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 7-9.

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

bracing.

JOINTS 1 Brace at Jt(s): 29,

22, 20, 24, 18

REACTIONS 2=0-3-8, 14=0-3-8 (size)

Max Horiz 2=-362 (LC 10)

Max Uplift 2=-22 (LC 12), 14=-22 (LC 13)

Max Grav 2=1501 (LC 2), 14=1501 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/34, 2-4=-1724/115, 4-5=-1678/142 TOP CHORD

5-6=-947/256, 6-7=-26/494, 7-8=0/623 8-9=0/623, 9-10=-26/495, 10-11=-947/256,

11-12=-1678/142, 12-14=-1724/117,

14-15=0/34

BOT CHORD 2-28=-153/1353, 25-28=0/2253,

23-25=0/2253, 21-23=0/2718, 19-21=0/2066, 16-19=0/2066, 14-16=-23/1125,

24-27=-153/149, 22-24=-1854/0, 20-22=-1854/0, 18-20=-1854/0,

17-18=-158/155

WEBS 27-28=-19/797, 5-27=-1/956, 16-17=-21/800, 11-17=-1/956, 6-29=-1865/343,

10-29=-1867/345, 4-28=-385/345, 12-16=-387/347, 7-29=-229/325,

8-29=-163/77, 9-29=-229/325, 22-23=-248/0, 20-21=-248/0, 24-28=-1329/0, 24-25=-97/122, 23-24=-44/776,

16-18=-1329/0, 18-19=-105/131,

18-21=-57/787

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-9-10 to 2-2-6, Interior (1) 2-2-6 to 9-11-8, Exterior (2) 9-11-8 to 18-2-7, Interior (1) 18-2-7 to 24-8-10 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 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.
- Ceiling dead load (5.0 psf) on member(s). 5-6, 10-11, 6-29, 10-29; Wall dead load (5.0psf) on member (s).5-27, 11-17
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 24-27, 22-24, 20-22, 18-20, 17-18
- 10) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 2 and 22 lb uplift at joint 14.

Page: 1

- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



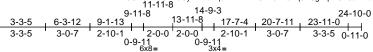
February 26,2024



Job Truss Truss Type Qty Ply Furr, Mayview B 163825353 3894016 D03 Attic Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 23 10:50:41 ID:D3ORaXYuCVAcCyhIVbdDqozPnIW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



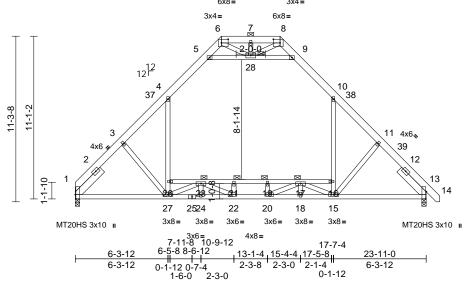


Plate Offsets (X, Y): [1:0-3-8,Edge], [6:0-5-8,0-3-0], [8:0-5-8,0-3-0], [13:0-5-13,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.17	24-27	>999	360	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.31	19-21	>931	240	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.05	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.22	27-31	>999	240	Weight: 210 lb	FT = 20%

LUMBER 2x6 SP 2400F 2.0E or 2x6 SP DSS *Except* TOP CHORD

6-8:2x6 SP No.2

BOT CHORD 2x4 SP No.1

2x4 SP No.3 *Except* 4-27,10-15,5-9:2x4 SP **WEBS** No.2

SLIDER Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2

-- 2-6-0

BRACING TOP CHORD Structural wood sheathing directly applied or

> 5-7-9 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 6-8.

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

bracing.

JOINTS 1 Brace at Jt(s): 28, 21, 19, 23, 17

REACTIONS 1=0-3-8, 13=0-3-8 (size)

Max Horiz 1=-353 (LC 10) Max Uplift 13=-22 (LC 13)

Max Grav 1=1460 (LC 2), 13=1502 (LC 2)

(lb) - Maximum Compression/Maximum **FORCES**

Tension

TOP CHORD 1-3=-1727/113, 3-4=-1681/150

4-5=-947/258, 5-6=-26/495, 6-7=0/624, 7-8=0/624, 8-9=-26/495, 9-10=-948/256

10-11=-1679/142, 11-13=-1725/117,

13-14=0/34

BOT CHORD 1-27=-145/1358, 24-27=0/2255,

22-24=0/2255, 20-22=0/2719, 18-20=0/2066, 15-18=0/2066, 13-15=-23/1125, 23-26=-154/149, 21-23=-1854/0,

19-21=-1854/0, 17-19=-1854/0,

16-17=-158/155

WEBS 26-27=-19/801, 4-26=-1/958, 15-16=-21/800, 10-16=-1/956, 5-28=-1866/343,

9-28=-1870/345, 3-27=-391/346, 11-15=-387/347, 7-28=-163/78, 6-28=-229/324, 8-28=-229/326, 21-22=-248/0, 19-20=-248/0, 23-24=-97/122,

23-27=-1329/0, 22-23=-44/775,

17-18=-106/131, 15-17=-1329/0,

17-20=-57/788

NOTES

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

Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-1-9, Interior (1) 3-1-9 to 9-11-8, Exterior (2) 9-11-8 to 18-2-7, Interior (1) 18-2-7 to 24-8-10 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

Provide adequate drainage to prevent water ponding.

All plates are MT20 plates unless otherwise indicated.

All plates are 2x4 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.

Ceiling dead load (5.0 psf) on member(s), 4-5, 9-10, 5-28, 9-28; Wall dead load (5.0psf) on member(s).4-26, 10-16

Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 23-26, 21-23, 19-21, 17-19, 16-17

10) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint

Page: 1

12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



February 26,2024

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

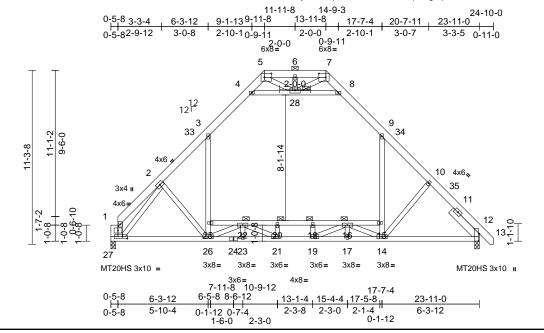
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	D04	Attic	2	1	Job Reference (optional)	163825354

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 23 10:50:43 ID:D3ORaXYuCVAcCyhlVbdDqozPnIW-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:74.8

Plate Offsets (X, Y): [5:0-5-8,0-3-0], [7:0-5-8,0-3-0], [12:0-5-13,Edge], [27:0-3-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.18	14-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.31	16-18	>906	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.04	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.22	14-31	>999	240	Weight: 212 lb	FT = 20%

LUMBER TOP CHORD

2x6 SP 2400F 2.0E or 2x6 SP DSS *Except* 5-7:2x6 SP No.2

2x4 SP No.1

2x4 SP No.3 *Except* 3-26,9-14,4-8,27-1:2x4 **WEBS**

SP No.2 OTHERS 2x6 SP No.2

SLIDER Right 2x6 SP No.2 -- 2-6-0

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 5-7-15 oc purlins, except end verticals, and

2-0-0 oc purlins (10-0-0 max.): 5-7.

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

bracing.

JOINTS 1 Brace at Jt(s): 28, 20, 18, 22, 16

REACTIONS (size) 12=0-3-8, 27=0-3-8

> Max Horiz 27=-352 (LC 8) Max Uplift 12=-23 (LC 13)

12=1473 (LC 2), 27=1468 (LC 2) Max Grav

(lb) - Maximum Compression/Maximum **FORCES**

Tension

TOP CHORD

1-2=-256/72, 2-3=-1602/139, 3-4=-929/256,

4-5=-26/470, 5-6=0/583, 6-7=0/583,

7-8=-27/458, 8-9=-909/254, 9-10=-1641/140, 10-12=-1685/117, 12-13=0/34, 1-27=-186/87

BOT CHORD 26-27=-145/1215, 23-26=0/2146,

21-23=0/2146, 19-21=0/2674, 17-19=0/2066, 14-17=0/2066, 12-14=-23/1105,

22-25=-142/160, 20-22=-1843/0, 18-20=-1843/0, 16-18=-1843/0,

15-16=-174/151

WEBS 25-26=-7/719, 3-25=0/889, 14-15=-22/797, 9-15=-2/953, 4-28=-1805/343,

8-28=-1760/345, 2-26=-260/336, 10-14=-409/348, 6-28=-157/77, 5-28=-225/348, 7-28=-235/290,

20-21=-254/0, 18-19=-242/0, 22-23=-102/97, 22-26=-1300/0, 21-22=-29/831,

16-17=-102/143, 14-16=-1336/0,

16-19=-66/731, 2-27=-1476/29

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-12 to 3-0-11, Interior (1) 3-0-11 to 9-11-8, Exterior (2) 9-11-8 to 18-2-7, Interior (1) 18-2-7 to 24-8-10 zone; cantilever left and right exposed; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 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.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-28, 8-28; Wall dead load (5.0psf) on member(s).3-25, 9-15
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 22-25, 20-22, 18-20, 16-18, 15-16
- 10) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



February 26,2024

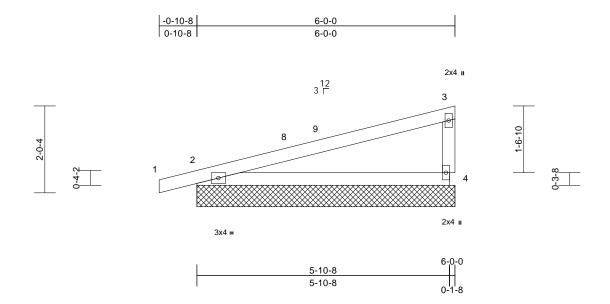
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	E01	Monopitch Supported Gable	1	1	Job Reference (optional)	163825355

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 23 10;50;44 ID:FutiCTeLkmxgP4LdRCJx5BzPnMG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:26.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 21 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (size) 2=6-0-0, 4=6-0-0, 5=6-0-0 Max Horiz 2=92 (LC 8), 5=92 (LC 8) 2=-126 (LC 8), 4=-90 (LC 12), Max Uplift

5=-126 (LC 8)

2=291 (LC 1), 4=230 (LC 1), 5=291 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/13, 2-3=-149/62, 3-4=-151/235

BOT CHORD 2-4=-135/151

NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-10-8 to 2-1-8, Exterior (2) 2-1-8 to 5-10-4 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- 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.

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 2, 90 lb uplift at joint 4 and 126 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

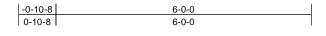


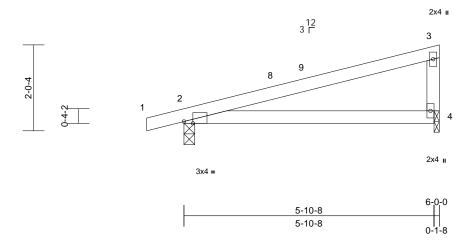
February 26,2024



Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	E02	Monopitch	5	1	Job Reference (optional)	163825356

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 23 10;50;45 ID:ufYOayNYv?AnmhfO9awnCYzPnMc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:27.1

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

	-					-			•			
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	0.16	4-7	>428	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.12	4-7	>572	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 21 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 or 6-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS 2=0-3-0, 4=0-1-8 (size)

Max Horiz 2=92 (LC 8)

Max Uplift 2=-199 (LC 8), 4=-161 (LC 8) Max Grav 2=291 (LC 1), 4=230 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/13, 2-3=-149/189, 3-4=-151/182

BOT CHORD 2-4=-216/136

NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 5-10-4 zone; cantilever left and right exposed end vertical left 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
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 4 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 at joint(s) 4.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 2 and 161 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 26,2024



J	ob	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3	894016	E03	Half Hip	2	1	Job Reference (optional)	163825357

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 23 10;50;45 ID:YWKnEhxP48zGHmAErEIZ3FzPnLu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

-0-10-8	5-11-8	7-4-0	l
0-10-8	5-11-8	1-4-8	l

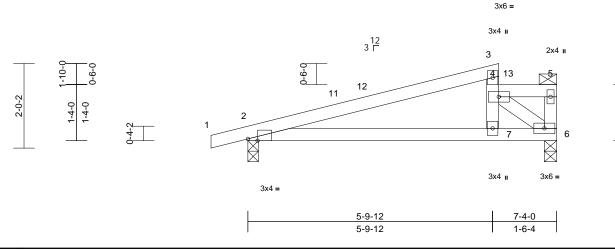


Plate Offsets (X, Y): [2:0-2-12,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	0.09	7-10	>970	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.08	7-10	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 28 lb	FT = 20%

LUMBER

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

2x4 SP No.2 *Except* 6-4:2x4 SP No.3 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 4-5, 4-7.

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

bracing.

REACTIONS (size) 2=0-3-0, 6=0-3-8

Max Horiz 2=109 (LC 12) Max Uplift 2=-169 (LC 8)

Max Grav 2=420 (LC 1), 6=760 (LC 1)

(lb) - Maximum Compression/Maximum **FORCES**

Tension

TOP CHORD 1-2=0/13, 2-3=-678/226, 4-5=-57/0,

5-6=-247/0, 4-7=-341/185, 3-4=-17/139

BOT CHORD 2-7=-287/637, 6-7=-145/751

WEBS 4-6=-870/210

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 7-2-4 zone; cantilever left and right exposed : end vertical left 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
- 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.

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 169 lb uplift at
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15,
 - Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-60, 4-5=-60, 6-8=-20

Concentrated Loads (lb)

Vert: 13=-552



February 26,2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPII 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.sbcacomponents.com)

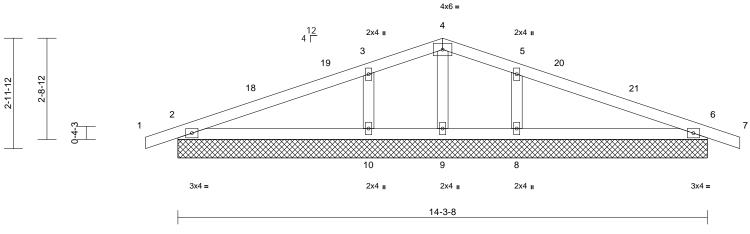


Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	G01	Common Supported Gable	1	1	Job Reference (optional)	163825358

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Fri Feb 23 10:50:45 ID:usz6tWmZwKl08sFbfMVpeozPnNP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:31.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 54 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size)

2=14-3-8, 6=14-3-8, 8=14-3-8, 9=14-3-8, 10=14-3-8, 11=14-3-8,

15=14-3-8

Max Horiz 2=-60 (LC 13), 11=-60 (LC 13) Max Uplift 2=-112 (LC 8), 6=-120 (LC 9),

8=-180 (LC 13), 9=-112 (LC 1), 10=-181 (LC 12), 11=-112 (LC 8),

15=-120 (LC 9)

Max Grav 2=241 (LC 1), 6=241 (LC 1), 8=439 (LC 1), 9=87 (LC 9), 10=439 (LC

1), 11=241 (LC 1), 15=241 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/17, 2-3=-80/81, 3-4=-95/169,

4-5=-95/172, 5-6=-80/84, 6-7=0/17 **BOT CHORD** 2-10=-25/70, 9-10=0/60, 8-9=0/60,

6-8=-14/73

WEBS 4-9=-72/67, 3-10=-287/322, 5-8=-287/322

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-10-8 to 2-1-8, Exterior (2) 2-1-8 to 7-1-12, Corner (3) 7-1-12 to 10-1-12, Exterior (2) 10-1-12 to 15-2-0 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

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 2, 120 lb uplift at joint 6, 112 lb uplift at joint 9, 181 lb uplift at joint 10, 180 lb uplift at joint 8, 112 lb uplift at joint 2 and 120 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



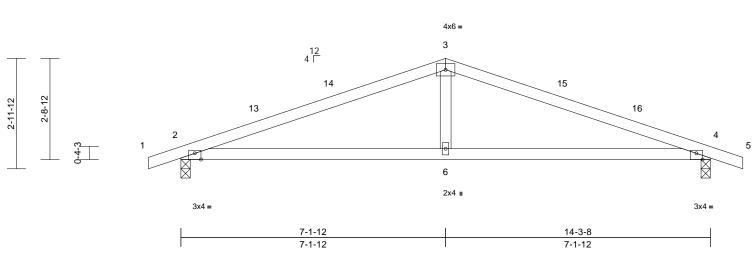
February 26,2024



Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	G02	Common	3	1	Job Reference (optional)	163825359

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 23 10:50:46 ID:f7wi?Rfw1ZcIZT3sezrinvzPnNY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-10-8 7-1-12 14-3-8 15-2-0 0-10-8 7-1-12 0-10-8 7-1-12



Scale = 1:31.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
=	. ,	-						(/				
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	0.19	6-12	>919	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.18	6-12	>961	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 50 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-9 oc purlins.

BOT CHORD Rigid ceiling directly applied or 5-1-2 oc

bracing.

REACTIONS 2=0-3-0, 4=0-3-0 (size)

Max Horiz 2=-60 (LC 13)

Max Uplift 2=-397 (LC 8), 4=-397 (LC 9) Max Grav 2=624 (LC 1), 4=624 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-1079/1228, 3-4=-1079/1228,

4-5=0/17

2-6=-1079/971, 4-6=-1079/971 **BOT CHORD**

WFBS 3-6=-476/331

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 7-1-12, Exterior (2) 7-1-12 to 10-1-12, Interior (1) 10-1-12 to 15-2-0 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
- 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.

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 397 lb uplift at joint 2 and 397 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Page: 1

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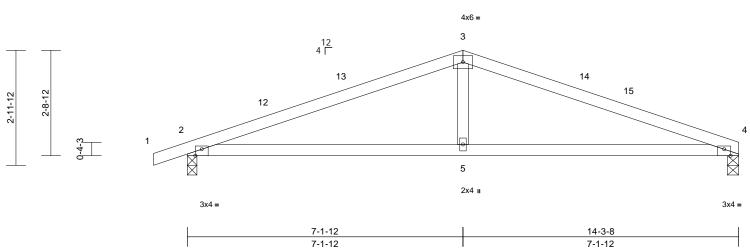


ſ	Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
	3894016	G03	Common	2	1	Job Reference (optional)	163825360

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Page: 1





Scale = 1:29.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	0.19	5-8	>897	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.19	5-8	>926	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 48 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

4-0-8 oc purlins.

BOT CHORD Rigid ceiling directly applied or 4-11-15 oc

bracing.

REACTIONS 2=0-3-0, 4=0-3-8 (size)

Max Horiz 2=67 (LC 16)

Max Uplift 2=-397 (LC 8), 4=-345 (LC 9) Max Grav 2=626 (LC 1), 4=570 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-1086/1237, 3-4=-1086/1249

BOT CHORD 2-5=-1111/977, 4-5=-1111/977

WEBS 3-5=-483/332

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 7-1-12, Exterior (2) 7-1-12 to 10-1-12, Interior (1) 10-1-12 to 14-3-8 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
- 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.

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 345 lb uplift at joint 4 and 397 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



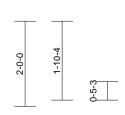
February 26,2024

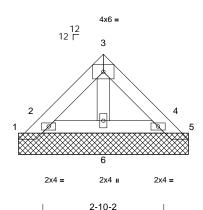


Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	PB01	Piggyback	11	1	Job Reference (optional)	163825361

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	1-5-1	2-10-2	3-5-1
0-6-15	1-5-1	1-5-1	0-6-15





Scale = 1:27.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 14 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=4-0-0, 2=4-0-0, 4=4-0-0, 5=4-0-0, 6=4-0-0, 7=4-0-0

Max Horiz 1=-60 (LC 8)

Max Uplift 1=-65 (LC 10), 2=-74 (LC 12),

5=-13 (LC 13), 6=-35 (LC 13),

7=-74 (LC 12)

Max Grav 1=65 (LC 9), 2=136 (LC 19), 5=58 (LC 1), 6=161 (LC 1), 7=136 (LC

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-87/101, 2-3=-31/36, 3-4=-23/40,

4-5=-40/22

BOT CHORD 2-6=-58/64, 4-6=-58/64

WEBS 3-6=-84/26

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 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.
- 4) 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 2, 65 lb uplift at joint 1, 13 lb uplift at joint 5, 35 lb uplift at joint 6 and 74 lb uplift at joint 2.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



Page: 1

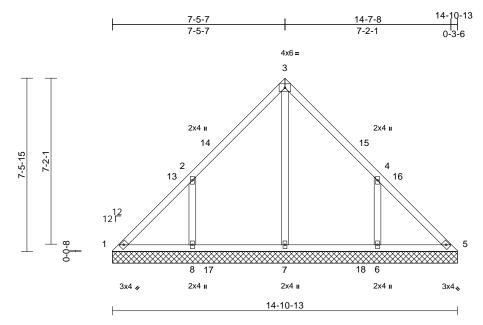
February 26,2024



Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	V01	Valley	1	1	Job Reference (optional)	63825362

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 23 10:50:48 ID:P8RICITd2InEM6Zkeouu8wzPnAt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:49.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 71 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size)

1=14-10-13, 5=14-10-13, 6=14-10-13, 7=14-10-13,

8=14-10-13

Max Horiz 1=-243 (LC 8)

Max Uplift 1=-67 (LC 8), 5=-11 (LC 9), 6=-333

(LC 13), 8=-340 (LC 12)

Max Grav 1=168 (LC 20), 5=128 (LC 22),

6=462 (LC 20), 7=410 (LC 19),

8=469 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-236/218, 2-3=-144/182, 3-4=-139/153,

4-5=-187/154

1-8=-148/204, 7-8=-148/204, 6-7=-148/204,

5-6=-148/204

3-7=-212/0, 2-8=-414/370, 4-6=-414/367

WEBS NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-8 to 3-0-8. Interior (1) 3-0-8 to 7-5-15, Exterior (2) 7-5-15 to 10-5-15, Interior (1) 10-5-15 to 14-11-5 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

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 1, 11 lb uplift at joint 5, 340 lb uplift at joint 8 and 333 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

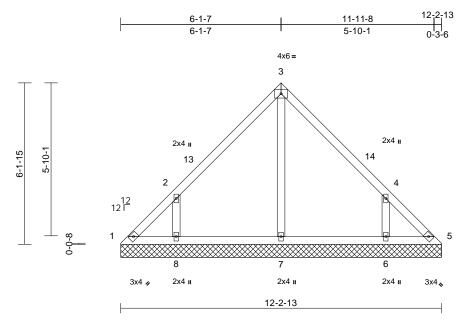
LOAD CASE(S) Standard



February 26,2024

Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	V02	Valley	1	1	Job Reference (optional)	163825363

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 23 10:50:48 ID:m6EBFSXmtHQWTtShRLU3r_zPnAo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:44

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 56 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=12-2-13, 5=12-2-13, 6=12-2-13, 7=12-2-13, 8=12-2-13

Max Horiz 1=199 (LC 9)

Max Uplift 1=-75 (LC 8), 5=-27 (LC 9), 6=-285

(LC 13), 8=-292 (LC 12) 1=141 (LC 20), 5=108 (LC 22), Max Grav

6=365 (LC 20), 7=231 (LC 19),

8=374 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-215/176, 2-3=-177/171, 3-4=-175/156,

4-5=-177/119 **BOT CHORD** 1-8=-78/142, 7-8=-71/142, 6-7=-71/142,

5-6=-71/142

WEBS

3-7=-146/3, 2-8=-393/355, 4-6=-393/352

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 6-1-15, Exterior (2) 6-1-15 to 9-1-15, Interior (1) 9-1-15 to 12-3-5 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 1, 27 lb uplift at joint 5, 292 lb uplift at joint 8 and 285 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

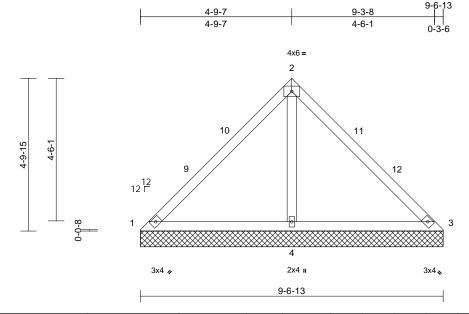


February 26,2024



Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	V03	Valley	1	1	Job Reference (optional)	163825364

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 23 10;50;49 ID:AhwKtUZe9Co5KKAG6U1mTczPnAl-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale	 1.36	1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.24	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 39 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

9-6-13 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=9-6-13, 3=9-6-13, 4=9-6-13

Max Horiz 1=-154 (LC 8)

Max Uplift 1=-17 (LC 24), 3=-17 (LC 23), 4=-285 (LC 12)

1=78 (LC 23), 3=78 (LC 24), 4=680 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-169/288, 2-3=-169/280

BOT CHORD 1-4=-284/223, 3-4=-284/223 2-4=-623/344 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 4-9-15, Exterior (2) 4-9-15 to 7-9-15, Interior (1) 7-9-15 to 9-7-5 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 1, 17 lb uplift at joint 3 and 285 lb uplift at joint 4.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



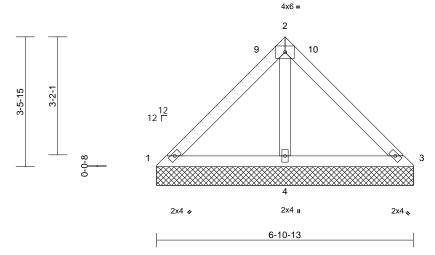
February 26,2024



Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	V04	Valley	1	1	Job Reference (optional)	163825365

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Scale = 1:31

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 28 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-10-13 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=6-10-13, 3=6-10-13, 4=6-10-13

Max Horiz 1=-110 (LC 8) Max Uplift 4=-184 (LC 12)

Max Grav 1=71 (LC 23), 3=71 (LC 24), 4=455

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-97/173, 2-3=-97/162

BOT CHORD 1-4=-195/172, 3-4=-195/172

WFBS 2-4=-371/218

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 3-5-15, Exterior (2) 3-5-15 to 6-3-6, Interior (1) 6-3-6 to 6-11-5 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 26,2024

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 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.sbcacomponents.com)

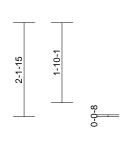


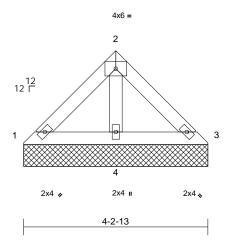
Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	V05	Valley	1	1	Job Reference (optional)	163825366

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3-11-8 2-1-7 1-10-1







Scale = 1:26.5

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 16 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-2-13 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=4-2-13, 3=4-2-13, 4=4-2-13

1=-65 (LC 8) Max Horiz

Max Uplift 1=-7 (LC 13), 3=-10 (LC 13), 4=-79

(LC 12)

1=59 (LC 23), 3=59 (LC 24), 4=236 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-50/73, 2-3=-50/59

BOT CHORD 1-4=-83/81, 3-4=-83/81

2-4=-142/74 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc. 5)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1, 10 lb uplift at joint 3 and 79 lb uplift at joint 4.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Page: 1

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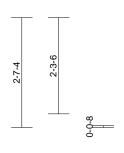


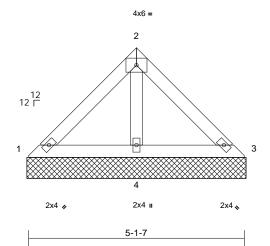
Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
3894016	V06	Valley	1	1	Job Reference (optional)	163825367

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2-6-12 4-10-2 2-6-12 2-3-6







Scale = 1:27.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 20 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-1-7 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=5-2-7, 3=5-2-7, 4=5-2-7

Max Horiz 1=80 (LC 9)

Max Uplift 3=-4 (LC 13), 4=-113 (LC 12) Max Grav 1=63 (LC 23), 3=63 (LC 24), 4=315

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-53/110, 2-3=-53/95

BOT CHORD 1-4=-123/114, 3-4=-123/114

WFBS 2-4=-223/126

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 3 and 113 lb uplift at joint 4.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Page: 1

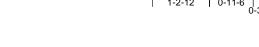
February 26,2024

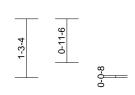


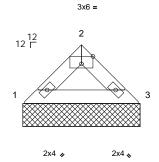
	Job	Truss	Truss Type	Qty	Ply	Furr, Mayview B	
١	3894016	V07	Valley	1	1	Job Reference (optional)	163825368

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Scale = 1:24.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 8 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-5-7 oc purlins.

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

bracing.

REACTIONS (size) 1=2-6-7, 3=2-6-7

Max Horiz 1=-35 (LC 8)

Max Uplift 1=-24 (LC 12), 3=-24 (LC 13) Max Grav 1=102 (LC 1), 3=102 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-120/47, 2-3=-120/47

BOT CHORD 1-3=-29/97

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 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.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 6) 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.

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1 and 24 lb uplift at joint 3.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 26,2024

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- $\frac{1}{16}$ 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 × 4

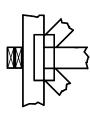
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

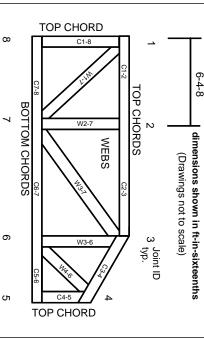
Industry Standards: ANSI/TPI1: National I

DSB-22:

National Design Specification for Metal Plate Connected Wood Truss Construction 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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MITEK



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

▲ 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.
- 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.
- 15. Connections not shown are the responsibility of others
- 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.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.