

RE: B240015 - Lot 195 HT

Site Information:

Project Customer: Summit Homes Project Name:

Lot/Block: 195 Subdivision: Hawthorn Ridge

Model: Sydney - Modern Prairie Address: 1628 SW Arborway Terr

City: Lee's Summit State: MO

General Truss Engineering Criteria & Design Loads (Individual Truss Design

Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.7

Wind Code: ASCE 7-16 [Noting R.Specjed: 115 mph Design Method: MWFRS (Envelope) ASCE 7-16 [Low Rise]

Roof Load: 45.0 psf Floor Load: N/A psf

Mean Roof Height (feet): 25 Exposure Category: C

2 163679785 A2 2/19/24 36 163679819 G7 2/19/2 3 163679786 A3 2/19/24 37 163679820 G8 2/19/2 4 163679787 A4 2/19/24 38 163679821 G9 2/19/2 5 163679788 A5 2/19/24 39 163679822 G10 2/19/2 6 163679789 A6 2/19/24 40 163679823 H1 2/19/2 7 163679790 B1 2/19/24 41 163679824 H2 2/19/2 8 163679791 B2 2/19/24 42 163679825 H3 2/19/2 9 163679792 B3 2/19/24 43 163679826 H4 2/19/2 10 163679793 B4 2/19/24 44 163679827 J1 2/19/2	No. Seal#	Truss Name D	Date No.	Seal#	Truss Name	Date
12 I63679796 C2 2/19/24 46 I63679830 J4 2/19/24 13 I63679796 C3 2/19/24 47 I63679830 J4 2/19/24 14 I63679797 C4 2/19/24 48 I63679831 J5 2/19/24 15 I63679798 C5 2/19/24 49 I63679832 J6 2/19/2 16 I63679799 C6 2/19/24 50 I63679833 J7 2/19/2 17 I63679800 C7 2/19/24 51 I63679834 J8 2/19/2 18 I63679801 C8 2/19/24 52 I63679835 J9 2/19/2 19 I63679802 C9 2/19/24 53 I63679836 J10 2/19/2 20 I63679803 C10 2/19/24 54 I63679837 J11 2/19/2 21 I63679804 D1 2/19/24 55 I63679838 J12 2/19/2 22 I63679805 D2 2/19/24 56 I63679840 J14 2/	1 1636797 2 1636797 3 1636797 4 1636797 5 1636797 6 1636797 7 1636797 10 1636797 11 1636797 12 1636797 14 1636797 15 1636797 16 1636798 18 1636798 20 1636798 20 1636798 21 1636798 22 1636798 23 1636798 24 1636798 25 1636798 26 1636798 27 1636798 28 1636798 29 1636798 29 1636798 29 1636798 29 1636798 29 1636798 29 1636798 29 1636798	9784 A1 9785 A2 9786 A3 9787 A4 9788 A5 9789 A6 9790 B1 9791 B2 9792 B3 9793 B4 9794 C1 9795 C2 9796 C3 9796 C3 9797 C4 9798 C5 9799 C6 9799 C6 9800 C7 9800 C	7/19/24 35 7/19/24 36 7/19/24 37 7/19/24 38 7/19/24 40 7/19/24 41 7/19/24 42 7/19/24 43 7/19/24 45 7/19/24 45 7/19/24 46 7/19/24 47 7/19/24 50 7/19/24 50 7/19/24 51 7/19/24 52 7/19/24 53 7/19/24 55 7/19/24 55 7/19/24 55 7/19/24 56 7/19/24 61 7/19/24 63 7/19/24 63 7/19/24 63 7/19/24 65 7/19/24 65 7/19/24 66 7/19/24 66 7/19/24 66	IG3679818 IG3679819 IG3679820 IG3679821 IG3679822 IG3679823 IG3679824 IG3679826 IG3679827 IG3679828 IG3679829 IG3679830 IG3679831 IG3679831 IG3679831 IG3679831 IG3679831 IG3679831 IG3679831 IG3679831 IG3679831 IG3679831 IG3679841 IG3679840 IG3679840 IG3679844 IG3679844 IG3679844 IG3679844 IG3679844 IG3679844 IG3679848 IG3679848 IG3679848	G6 G7 G8 G9 G10 H1 H2 H3 J1 J2 J3 J4 J5 J6 J7 J9 J112 J113 J15 J16 J17 J17 J18 J19 J19 J19 J19 J19 J19 J19 J19 J20 J21 J22 J3	Date 2/19/24

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

Truss Design Engineer's Name: Johnson, Andrew

My license renewal date for the state of Missouri is December 31, 2025.

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



MiTek, Inc.

314.434.1200

16023 Swingley Ridge Rd.

Chesterfield, MO 63017



RE: B240015 - Lot 195 HT

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

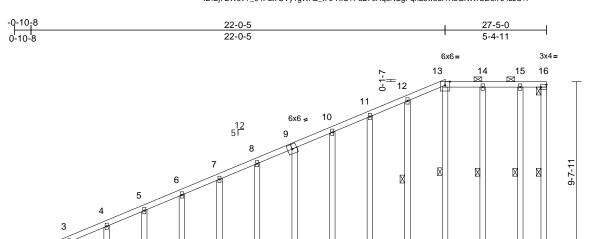
No. 69 771 773 775 777 881 823 884 889 991 993 995 997 101 103 104	Seal# 163679852 163679854 163679855 163679856 163679859 163679859 163679861 163679862 163679864 163679864 163679866 163679867 163679867 163679879 163679879 163679879 163679879 163679879 163679879 163679879 163679878 163679878 163679878 163679878 163679878 163679878 163679878 163679878 163679878 163679878 163679878 163679888 163679888	Truss Name J26 J27 J28 J29 J30 J31 J32 J33 J34 J35 J36 J37 J38 J39 J40 J41 J42 J43 J44 J45 J46 J47 J48 LAY2 LAY2 LAY3 LAY2 LAY3 LAY6 R1 V1 V2 V3 V4 V5 V6	2/19/2 ²
103	163679886	V5	2/19/24

Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	A1	Half Hip Supported	1	1	Job Reference (optional)	163679784

9-10-5

9-7-11

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:45:59 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



27-5-0

23

6x6=

Scale = 1:61.3

LIMBER

BOT CHORD

Plate Offsets (X, Y): [2:0-3-8,Edge], [16:Edge,0-1-8], [17:Edge,0-1-8]

30

4x8 II

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	n/a		n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	-0.01	17	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 160 lb	FT = 10%

LOMBLIX		
TOP CHORD	2x4 SPF No.2	
BOT CHORD	2x4 SPF No.2	
WEBS	2x4 SPF No.2	
OTHERS	2x4 SPF No.2	
WEDGE	Left: 2x3 SPF No.2	
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.): 13-16. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 23-24.

WEBS 1 Row at midpt 16-17, 13-20, 12-21, 14-19, 15-18

REACTIONS (size) 2=27-5-0, 17=27-5-0, 18=27-5-0, 19=27-5-0, 20=27-5-0, 21=27-5-0, 22=27-5-0, 23=27-5-0, 24=27-5-0, 25=27-5-0, 26=27-5-0, 27=27-5-0, 28=27-5-0, 29=27-5-0, 30=27-5-0

Max Horiz 2=409 (LC 5)

Max Uplift 17=-20 (LC 5), 18=-49 (LC 4), 19=-49 (LC 5), 20=-45 (LC 5), 21=-47 (LC 8), 22=-47 (LC 8), 23=-52 (LC 8), 24=-49 (LC 8), 25=-41 (LC 8), 26=-49 (LC 8),

27=-47 (LC 8), 28=-48 (LC 8), 29=-47 (LC 8), 30=-87 (LC 8) Max Grav 2=212 (LC 16), 17=41 (LC 1),

18=155 (LC 22), 19=196 (LC 22), 20=167 (LC 1), 21=188 (LC 1), 22=177 (LC 1), 23=190 (LC 1), 24=179 (LC 1), 25=170 (LC 1), 26=182 (LC 1), 27=179 (LC 1), 28=180 (LC 1), 29=179 (LC 1),

30=184 (LC 1) (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/6, 2-3=-364/37, 3-4=-315/30 4-5=-291/28, 5-6=-266/25, 6-7=-242/23 7-8=-224/22, 8-10=-211/30, 10-11=-183/51, 11-12=-169/78, 12-13=-152/102, 13-14=-132/102, 14-15=-132/101, 15-16=-132/101, 16-17=-101/94

2-30=-133/100, 29-30=-133/100, 28-29=-133/100, 27-28=-133/100, 26-27=-133/100, 25-26=-133/100,

24-25=-133/100, 22-24=-133/101, 21-22=-133/101, 20-21=-133/101, 19-20=-133/101, 18-19=-133/101, 17-18=-133/101

WFBS 13-20=-127/72, 12-21=-148/72, 11-22=-137/71, 10-23=-150/76, 9-24=-139/73, 8-25=-130/65, 7-26=-142/73, 6-27=-140/71, 5-28=-140/72, 4-29=-140/71, 3-30=-140/111, 14-19=-155/66,

NOTES

BOT CHORD

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

15-18=-119/124

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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.
- All plates are 2x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing. 6)
- 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.

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

19

18

3x4=

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 17, 45 lb uplift at joint 20, 47 lb uplift at joint 21, 47 lb uplift at joint 22, 52 lb uplift at joint 23, 49 lb uplift at joint 24, 41 lb uplift at joint 25, 49 lb uplift at joint 26, 47 lb uplift at joint 27, 48 lb uplift at joint 28, 47 lb uplift at joint 29, 87 lb uplift at joint 30, 49 lb uplift at joint 19 and 49 lb uplift at joint 18.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) 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



February 19,2024

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

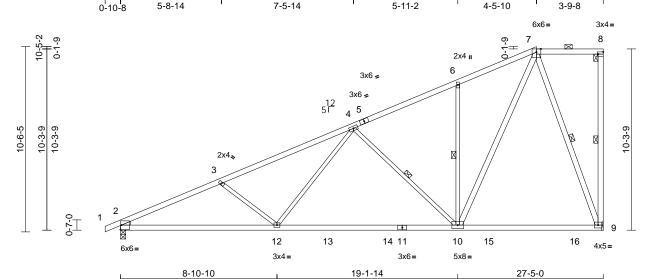


Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	A2	Half Hip	1	1	Job Reference (optional)	163679785

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:01 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

8-3-2

5-8-14 13-2-12 19-1-14 23-7-8 27-5-0



Scale = 1:65.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.25	10-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.44	10-12	>738	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	2-12	>999	240	Weight: 123 lb	FT = 10%

10-3-4

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF 2100F 1.8E

2x3 SPF No.2 *Except* 8-9,10-7,9-7:2x4 SPF WEBS

No 2

WEDGE Left: 2x3 SPF No.2 **BRACING**

TOP CHORD

Structural wood sheathing directly applied or

3-0-1 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 7-8 **BOT CHORD**

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

WEBS

1 Row at midpt 8-9, 4-10, 6-10, 7-9 REACTIONS (size) 2=0-3-8, 9= Mechanical

Max Horiz 2=438 (LC 5)

Max Uplift 2=-208 (LC 8), 9=-206 (LC 8)

Max Grav 2=1351 (LC 2), 9=1341 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-2488/397, 3-4=-2229/319,

4-6=-1138/207, 6-7=-1099/296, 7-8=-147/111,

8-9=-123/79

BOT CHORD 2-12=-509/2212, 10-12=-296/1550,

9-10=-144/407

WEBS 3-12=-392/245, 4-12=-35/718, 4-10=-817/277, 6-10=-342/185,

7-10=-296/1386, 7-9=-1172/225

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections. 7)
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 206 lb uplift at joint 9 and 208 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

8-10-10



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February 19,2024



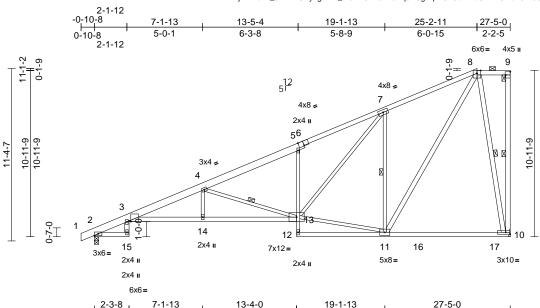
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	A3	Half Hip	1	1	Job Reference (optional)	163679786

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries. Inc. Fri Feb 16 08:46:01 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:75.9

Plate Offsets (X, Y): [3:0-1-6,Edge], [6:0-4-0,Edge], [9:Edge,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.36	3-14	>909	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.63	3-14	>518	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.36	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.30	3-14	>999	240	Weight: 153 lb	FT = 10%

5-9-13

8-3-3

6-2-4

LUMBER

2x4 SPF No.2 *Except* 1-6:2x6 SP 2400F TOP CHORD

2.0E

BOT CHORD 2x4 SPF No.2 *Except* 3-13:2x4 SPF 2100F

1.8E, 5-12:2x3 SPF No.2 2x3 SPF No.2 *Except* **WEBS**

9-10,15-3,8-11,10-8:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-9.

BOT CHORD Rigid ceiling directly applied or 9-4-4 oc

bracing. WEBS

1 Row at midpt 9-10, 4-13, 7-11, 8-10 2=0-3-8, 10= Mechanical

REACTIONS (size) Max Horiz 2=470 (LC 5)

Max Uplift 2=-207 (LC 8), 10=-237 (LC 8)

Max Grav 2=1324 (LC 2), 10=1319 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=0/12, 2-3=-871/0, 3-4=-3439/567,

4-5=-2051/337. 5-7=-1994/441.

7-8=-1089/318, 8-9=-160/117, 9-10=-88/79 **BOT CHORD** 2-15=0/0, 3-14=-695/3303, 13-14=-694/3302,

12-13=0/77, 5-13=-335/193, 11-12=-24/52,

10-11=-127/228

WEBS 3-15=-4/91, 4-14=0/269, 4-13=-1586/384,

11-13=-149/920, 7-13=-348/1380, 7-11=-1145/407, 8-11=-350/1444,

8-10=-1145/247

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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

- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 237 lb uplift at joint 10 and 207 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

4-10-5

2-3-8

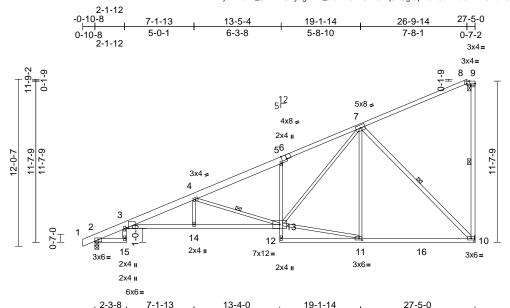


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B240015	A4	Half Hip	1	1	Job Reference (optional)	163679787

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Scale = 1:83.1

Plate Offsets (X, Y): [3:0-1-6,Edge], [6:0-4-0,Edge], [8:0-2-0,Edge], [9:Edge,0-1-8], [11:0-2-8,0-1-8]

2-3-8

4-10-5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.35	3-14	>919	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.62	3-14	>525	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.36	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.33	3-14	>986	240	Weight: 141 lb	FT = 10%

5-9-14

8-3-2

6-2-4

LUMBER

BOT CHORD

2x4 SPF No.2 *Except* 1-6:2x6 SP 2400F TOP CHORD

2.0E

2x4 SPF No.2 *Except* 3-13:2x4 SPF 2100F

1.8E. 5-12:2x3 SPF No.2

2x3 SPF No.2 *Except* 9-10,15-3,10-7:2x4 WEBS

SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins

(6-0-0 max.): 8-9. **BOT CHORD**

Rigid ceiling directly applied or 6-0-0 oc

bracing. WEBS

1 Row at midpt 9-10, 4-13, 7-10

REACTIONS (size) 2=0-3-8, 10= Mechanical

Max Horiz 2=470 (LC 8)

Max Uplift 2=-155 (LC 8), 10=-317 (LC 8)

Max Grav 2=1329 (LC 2), 10=1305 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/12, 2-3=-708/0, 3-4=-3463/508, 4-5=-2058/232, 5-7=-1982/322, 7-8=-140/46,

8-9=-44/19, 9-10=-244/113

BOT CHORD

2-15=0/0, 3-14=-893/3326, 13-14=-893/3326, 12-13=0/77, 5-13=-277/161, 11-12=-27/48,

10-11=-243/965

WEBS 3-15=-8/91, 4-14=0/268, 4-13=-1608/446,

11-13=-220/951, 7-13=-366/1340, 7-11=0/303, 7-10=-1354/341

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 exposed; 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 317 lb uplift at joint 10 and 155 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

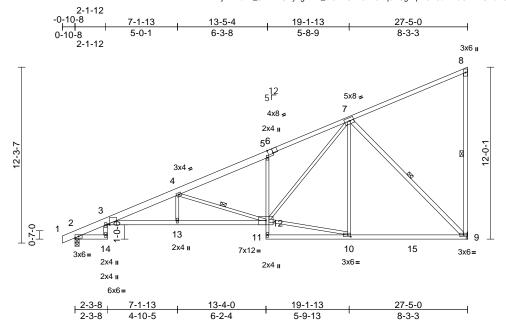


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Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	A5	Monopitch	4	1	Job Reference (optional)	163679788

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:02 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:80.4

Plate Offsets (X, Y): [3:0-1-6,Edge], [6:0-4-0,Edge], [10:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.35	3-13	>919	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.62	3-13	>525	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.36	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.33	3-13	>985	240	Weight: 142 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 1-6:2x6 SP 2400F TOP CHORD

2.0E

BOT CHORD 2x4 SPF No.2 *Except* 3-12:2x4 SPF 2100F

1.8E. 5-11:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 8-9,14-3,9-7:2x4 SPF

BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals.

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

bracing.

WEBS 8-9, 4-12, 7-9 1 Row at midpt REACTIONS 2=0-3-8, 9= Mechanical (size)

Max Horiz 2=481 (LC 8)

Max Uplift 2=-150 (LC 8), 9=-329 (LC 8) Max Grav 2=1329 (LC 2), 9=1305 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/12, 2-3=-714/0, 3-4=-3463/497,

4-5=-2057/220, 5-7=-1981/309, 7-8=-147/81.

8-9=-241/124

BOT CHORD 2-14=0/0. 3-13=-895/3326. 12-13=-894/3326.

11-12=0/77, 5-12=-273/159, 10-11=-27/47,

9-10=-245/967

3-14=-8/91, 4-13=0/268, 4-12=-1610/447,

10-12=-221/953, 7-12=-364/1336,

7-10=0/304, 7-9=-1360/344

NOTES

WFBS

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections. 5)
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 329 lb uplift at joint 9 and 150 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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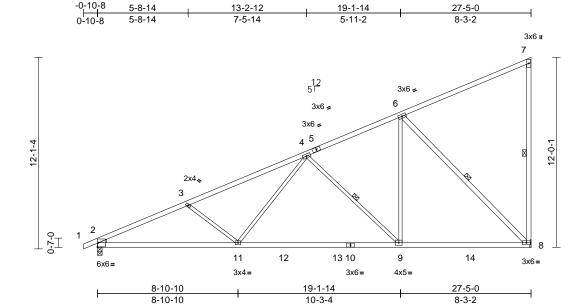


Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	A6	Monopitch	1	1	Job Reference (optional)	163679789

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Page: 1



Scale = 1:72.8

Plate Offsets	(X,	Y):	[2:Edge,0-	3-2
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.26	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.45	9-11	>721	240	1	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.06	8	n/a	n/a	1	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	9-11	>999	240	Weight: 115 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF 2100F 1.8E

2x3 SPF No.2 *Except* 7-8,8-6:2x4 SPF No.2 7) WEBS

WEDGE Left: 2x3 SPF No.2

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

2-8-1 oc purlins, except end verticals. Rigid ceiling directly applied or 9-7-10 oc

bracing. WEBS

1 Row at midpt 7-8, 4-9, 6-8 REACTIONS (size) 2=0-3-8, 8= Mechanical

Max Horiz 2=478 (LC 8)

Max Uplift 2=-150 (LC 8), 8=-329 (LC 8) Max Grav 2=1355 (LC 2), 8=1330 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-2503/266, 3-4=-2238/181,

4-6=-1143/65, 6-7=-144/83, 7-8=-245/126

BOT CHORD 2-11=-656/2227, 9-11=-422/1549, 8-9=-239/1001

WEBS 3-11=-407/259, 4-11=-51/728, 4-9=-766/256,

6-9=-56/969, 6-8=-1412/336

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 329 lb uplift at joint 8 and 150 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



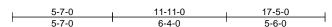
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	B1	Monopitch	7	1	Job Reference (optional)	163679790

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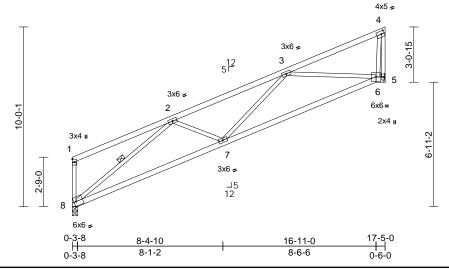


Plate Offsets (X, Y): [4:0-1-14,0-2-0], [8:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.13	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.29	6-7	>713	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	6-7	>999	240	Weight: 65 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-4-8 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midpt 2-8

5= Mechanical, 8=0-3-8 **REACTIONS** (size)

Max Horiz 8=231 (LC 5) Max Uplift 5=-89 (LC 8)

Max Grav 5=774 (LC 1), 8=774 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-8=-180/42, 1-2=-105/56, 2-3=-1497/115,

3-4=-225/5, 4-5=-794/14

BOT CHORD 5-6=-24/29, 7-8=-287/1330, 6-7=-228/1306 WEBS

2-8=-1542/135, 2-7=0/254, 3-7=0/376,

3-6=-1054/210, 4-6=0/711

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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 SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	B2	Half Hip	1	1	Job Reference (optional)	l63679791

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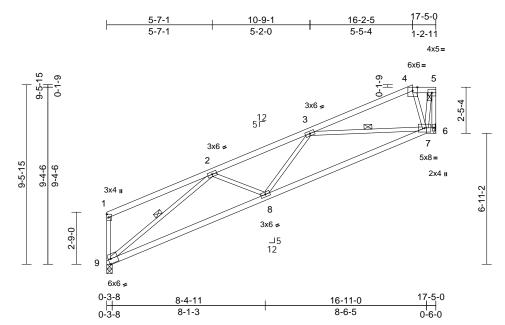


Plate Offsets (X, Y): [9:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.13	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.28	7-8	>727	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	7-8	>999	240	Weight: 66 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 4-7-0 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 4-5. Rigid ceiling directly applied or 10-0-0 oc

bracing.

WFBS 2-9.3-7 1 Row at midpt

6= Mechanical, 9=0-3-8 REACTIONS (size)

Max Horiz 9=211 (LC 5) Max Uplift 6=-74 (LC 8)

Max Grav 6=774 (LC 1), 9=774 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-9=-190/45, 1-2=-112/57, 2-3=-1508/115,

3-4=-327/23, 4-5=-170/19, 5-6=-822/0

BOT CHORD 6-7=-20/21, 8-9=-275/1311, 7-8=-228/1413 WEBS 2-9=-1514/129, 2-8=0/267, 3-8=0/282,

3-7=-1047/184, 4-7=-191/63, 5-7=-16/857

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .

- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) 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



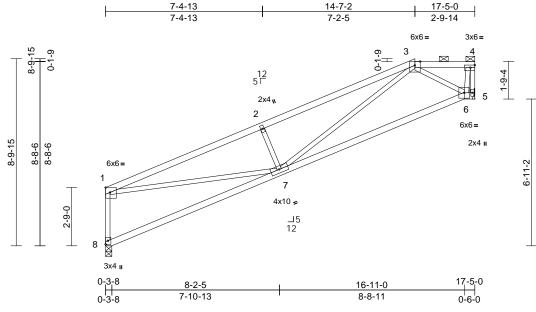
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Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	В3	Half Hip	1	1	Job Reference (optional)	163679792

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Scale = 1:54.3 Plate Offsets (X, Y): [1:Edge,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.14	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.32	6-7	>653	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.09	6-7	>999	240	Weight: 64 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 **BOT CHORD** 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

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

bracing.

REACTIONS (size) 5= Mechanical, 8=0-3-8

Max Horiz 8=239 (LC 5)

Max Uplift 5=-162 (LC 8), 8=-79 (LC 8) Max Grav 5=774 (LC 1), 8=774 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-8=-726/202, 1-2=-1825/405,

2-3=-1629/437, 3-4=-240/37, 4-5=-858/78 BOT CHORD 5-6=-14/25, 7-8=-246/118, 6-7=-247/824

WEBS 1-7=-313/1560, 2-7=-524/276, 3-7=-265/868,

3-6=-591/238, 4-6=-87/829

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2.
- Refer to girder(s) for truss to truss connections.

- 8) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 8 and 162 lb uplift at joint 5.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) 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



February 19,2024

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



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	B4	Half Hip Girder	1	2	Job Reference (optional)	163679793

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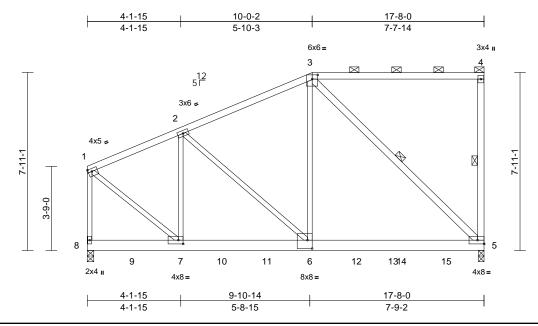


Plate Offsets (X, Y): [1:0-2-0,0-1-8], [3:0-3-0,0-2-4], [6:0-2-8,0-4-8], [7:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.11	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.21	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	5-6	>999	240	Weight: 209 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x6 SP 2400F 2.0E

WEBS 2x3 SPF No.2 *Except* 4-5,5-3:2x4 SPF No.2

BRACING

BOT CHORD

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.): 3-4.

Rigid ceiling directly applied or 10-0-0 oc

bracing

WEBS 1 Row at midpt 4-5, 3-5

REACTIONS (size) 5=0-3-0, 8=0-3-8

Max Horiz 8=311 (LC 5) Max Uplift 5=-416 (LC 5), 8=-324 (LC 8)

Max Grav 5=3512 (LC 1), 8=3392 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-2612/255, 2-3=-2648/295, 3-4=-113/86, TOP CHORD

4-5=-258/111. 1-8=-3076/317

7-8=-286/73, 6-7=-399/2371, 5-6=-338/2334 BOT CHORD WEBS

2-7=-374/125, 2-6=-35/125, 3-6=-214/2811,

3-5=-3244/372, 1-7=-290/3071

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

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

oc, 2x3 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Web connected as follows: 2x3 - 1 row at 0-9-0 oc, 2x4 -1 row at 0-9-0 oc.

All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B). unless otherwise indicated.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom 5) 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 2400F 2.0E
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 416 lb uplift at joint 5 and 324 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 667 lb down and 52 lb up at 9-7-3, 667 lb down and 58 lb up at 11-7-3, 667 lb down and 58 lb up at 13-7-3, 667 lb down and 58 lb up at 15-7-3, 667 lb down and 58 lb up at 17-7-3, 667 lb down and 58 lb up at 19-7-3, and 667 lb down and 58 lb up at 21-7-3, and 667 lb down and 58 lb up at 23-7-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-3=-70, 3-4=-70, 5-8=-20

Concentrated Loads (lb)

Vert: 7=-667 (B), 6=-667 (B), 9=-667 (B), 10=-667 (B), 11=-667 (B), 12=-667 (B), 14=-667 (B), 15=-667



February 19,2024



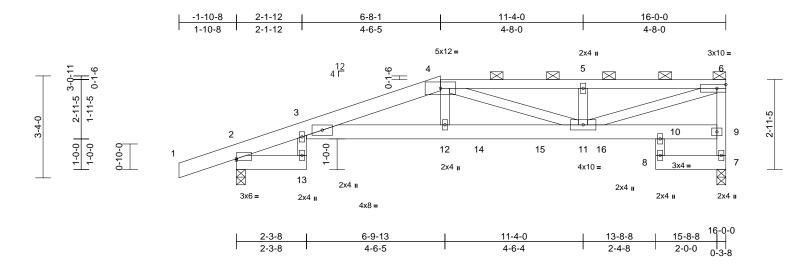
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	C1	HALF HIP GIRDER	1	2	Job Reference (optional)	163679794

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:04 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:37.7

Plate Offsets (X, Y):	[2:Edge,0-0-10],	[3:0-2-3,0-0-1]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.13	3-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.23	3-12	>828	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.16	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.11	3-12	>999	240	Weight: 162 lb	FT = 10%

ı	IM	R	F	R

TOP CHORD 2x6 SP 2400F 2.0E *Except* 4-6:2x4 SPF

No.2

BOT CHORD 2x6 SPF No.2 *Except* 10-8:2x4 SPF No.2

2x4 SPF No.2 WFBS

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.): 4-6.

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

bracing, Except: 6-0-0 oc bracing: 7-8.

REACTIONS 2=0-3-8, 7=0-3-8 (size)

Max Horiz 2=120 (LC 7)

Max Uplift 2=-394 (LC 4), 7=-390 (LC 4)

Max Grav 2=1405 (LC 1), 7=1518 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/18 2-3=-662/135 3-4=-4231/1084

4-5=-3379/897, 5-6=-3379/896, 7-9=-1475/395, 6-9=-1265/350

BOT CHORD 2-13=0/0, 3-12=-1052/4075.

11-12=-1070/4163, 10-11=-88/208, 9-10=-93/225, 8-10=-4/25, 7-8=-17/13

3-13=-30/171, 4-12=-201/936, 4-11=-828/236, 5-11=-319/163

6-11=-875/3356

NOTES

WEBS

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

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 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 this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 390 lb uplift at joint 7 and 394 lb uplift at joint 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 450 lb down and 145 lb up at 6-8-1, 230 lb down and 73 lb up at 7-11-4, 230 lb down and 73 lb up at 9-11-4, and 230 lb down and 73 lb up at 11-11-4, and 230 lb down and 71 lb up at 13-10-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-4=-70, 4-6=-70, 2-13=-20, 3-10=-20, 7-8=-20 Concentrated Loads (lb)

Vert: 10=-230 (F), 12=-450 (F), 14=-230 (F), 15=-230 (F), 16=-230 (F)



February 19,2024



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.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	C2	Half Hip	1	1	Job Reference (optional)	163679795

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:05 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

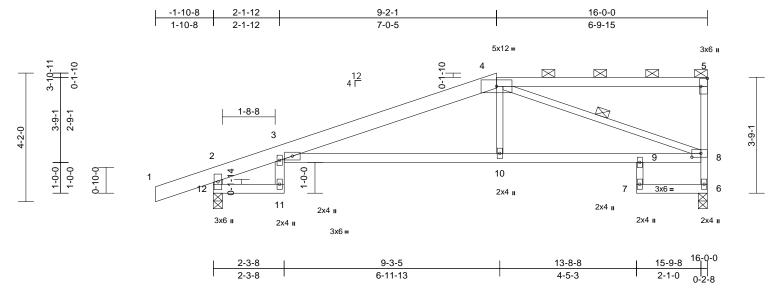


Plate Offsets (X, Y): [3:0-0-3,0-0-7], [5:Edge,0-2-8], [8:0-3-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.21	3-10	>888	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.43	3-10	>440	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.25	6	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.18	3-10	>999	240	Weight: 68 lb	FT = 10%	

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E *Except* 4-5:2x4 SPF

No.2

BOT CHORD 2x4 SPF No.2 *Except* 9-7:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 11-3,12-2:2x4 SPF

No.2

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.

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

bracing, Except:

6-0-0 oc bracing: 6-7. WEBS 1 Row at midpt 4-8

REACTIONS (size) 6=0-3-8, 12=0-3-8

Max Horiz 12=166 (LC 5)

Max Uplift 6=-134 (LC 4), 12=-216 (LC 4)

Max Grav 6=700 (LC 1), 12=859 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-3=-262/10, 3-4=-1282/215,

4-5=-66/36, 6-8=-673/147, 5-8=-221/89,

2-12=-851/234

BOT CHORD 11-12=0/0, 3-10=-211/1212, 9-10=-206/1217,

8-9=-213/1221, 7-9=0/34, 6-7=-6/10

WFBS 3-11=-1/48, 4-10=0/309, 4-8=-1235/222

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 6 and 216 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



February 19,2024



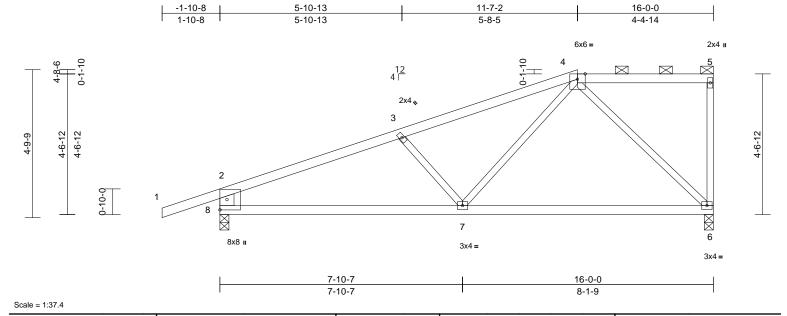
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	C3	Half Hip	1	1	Job Reference (optional)	163679796

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:05 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.14	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.31	6-7	>608	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	6-7	>999	240	Weight: 55 lb	FT = 10%

LUMBER

BRACING

2x4 SPF 2100F 1.8E *Except* 4-5:2x4 SPF TOP CHORD

No.2

2x4 SPF No.2 **BOT CHORD**

WEBS 2x3 SPF No.2 *Except* 8-2:2x6 SP 2400F

2.0E

TOP CHORD Structural wood sheathing directly applied or

5-10-10 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 4-5.

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

bracing.

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

Max Horiz 8=177 (LC 4)

Max Uplift 6=-149 (LC 4), 8=-203 (LC 4) Max Grav 6=695 (LC 1), 8=862 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/47, 2-3=-1147/177, 3-4=-905/132,

4-5=-2/3, 2-8=-774/236

BOT CHORD 7-8=-265/1000, 6-7=-134/499

5-6=-134/54, 3-7=-282/194, 4-7=-42/506,

4-6=-709/190

WEBS NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 203 lb uplift at joint 8 and 149 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

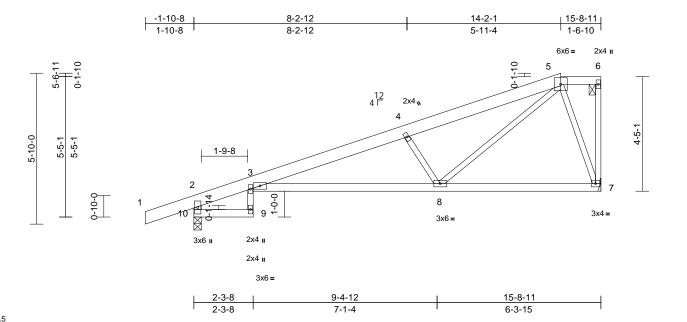




Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	C4	Half Hip	1	1	Job Reference (optional)	163679797

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:05 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:44.5

Plate Offsets (X, Y): [3:0-0-3,0-0-7]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.22	3-8	>852	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.45	3-8	>409	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.22	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.14	3-8	>999	240	Weight: 64 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SPF No.2 *Except* 5-6:2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except* 9-3:2x3 SPF No.2 2x3 SPF No.2 *Except* 10-2:2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.

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

REACTIONS (size) 7= Mechanical, 10=0-3-8

Max Horiz 10=168 (LC 5)

Max Uplift 7=-40 (LC 4), 10=-89 (LC 4) Max Grav 7=687 (LC 1), 10=847 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-3=-284/0, 3-4=-1524/95,

4-5=-1212/78, 5-6=-55/37, 6-7=-50/13,

2-10=-851/106

BOT CHORD 9-10=-5/11, 3-9=-4/60, 3-8=-109/1459,

7-8=-39/216

WEBS 4-8=-723/151, 5-8=-52/1136, 5-7=-644/60

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 SPF No.2 .

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 7 and 89 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



February 19,2024



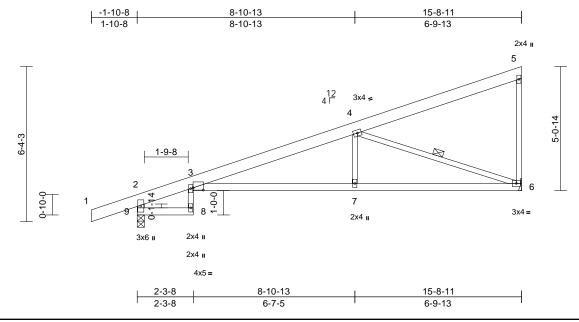
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	C5	Monopitch	7	1	Job Reference (optional)	163679798

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:05 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:47.1

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.25	3-7	>758	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.48	3-7	>389	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.25	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	3-7	>999	240	Weight: 63 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2

2x4 SPF No.2 *Except* 8-3:2x3 SPF No.2 **BOT CHORD** 2x3 SPF No.2 *Except* 9-2:2x4 SPF No.2 WEBS

BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals.

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

bracing.

WEBS 1 Row at midpt 4-6

6= Mechanical, 9=0-3-8 **REACTIONS** (size)

Max Horiz 9=186 (LC 5)

Max Uplift 6=-46 (LC 8), 9=-87 (LC 4) Max Grav 6=687 (LC 1), 9=847 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-3=-297/0, 3-4=-1416/64, 4-5=-138/28, 5-6=-155/40, 2-9=-851/105 BOT CHORD

8-9=-6/11, 3-8=-5/60, 3-7=-82/1344, 6-7=-81/1344

WFBS 4-7=0/311, 4-6=-1421/124

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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 SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 6 and 87 lb uplift at joint 9.

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



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



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	C6	Monopitch	3	1	Job Reference (optional)	163679799

8-2-5

Wheeler Lumber, Waverly, KS - 66871,

-1-10-8

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:06 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

14-8-0

I/defI

>999

>934

>999

(loc)

6-7

6-7

5-6

5

-0.09

-0.18

0.02

0.03

L/d

360

240

n/a n/a

240

PLATES

Weight: 50 lb

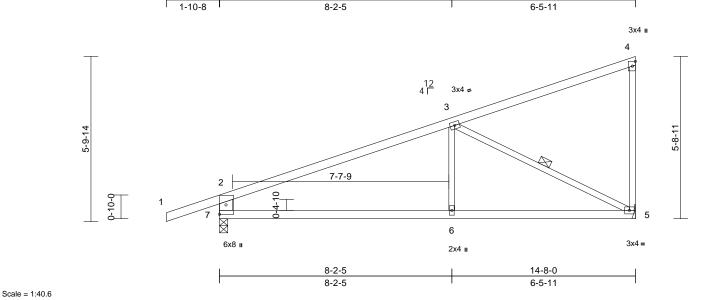
MT20

GRIP

197/144

FT = 10%

Page: 1



BCDL LUMBER

Loading

TCDI

BCLL

TCLL (roof)

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

2x3 SPF No.2 *Except* 7-2:2x6 SPF No.2 WEBS

(psf)

25.0

10.0

10.0

0.0*

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

2-0-0

1.15

1 15

YES

IRC2018/TPI2014

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.

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

bracing.

WEBS 3-5 1 Row at midpt

REACTIONS (size) 5= Mechanical, 7=0-3-8

Max Horiz 7=190 (LC 5)

Max Uplift 5=-43 (LC 8), 7=-89 (LC 4)

Max Grav 5=634 (LC 1), 7=803 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-928/38, 3-4=-134/36,

4-5=-179/35, 2-7=-715/134

BOT CHORD 6-7=-49/789 5-6=-49/789 WFBS 3-6=0/317, 3-5=-873/89

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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 SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 5 and 89 lb uplift at joint 7.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

0.88

0.46

0.43

LOAD CASE(S) Standard

CSI

TC

BC

WB

Matrix-S



February 19,2024



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

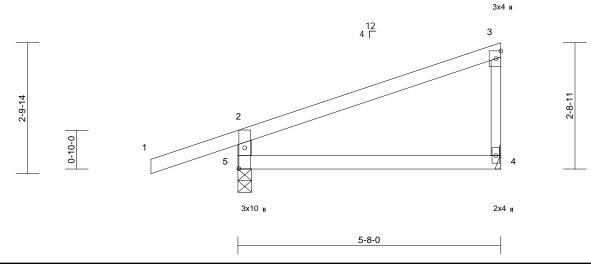
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	C7	Monopitch	5	1	Job Reference (optional)	163679800

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:06 $ID: Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$ Page: 1





Scale = 1:24.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.07	4-5	>929	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 18 lb	FT = 20%

LOAD CASE(S) Standard

LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 *Except* 5-2:2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-3-8

Max Horiz 5=117 (LC 5)

Max Uplift 4=-47 (LC 8), 5=-137 (LC 4) Max Grav 4=217 (LC 1), 5=412 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension

1-2=0/45, 2-3=-117/15, 3-4=-157/72, 2-5=-364/174

BOT CHORD 4-5=-27/36

NOTES

TOP CHORD

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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.
- 4) All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 4 and 137 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 19,2024

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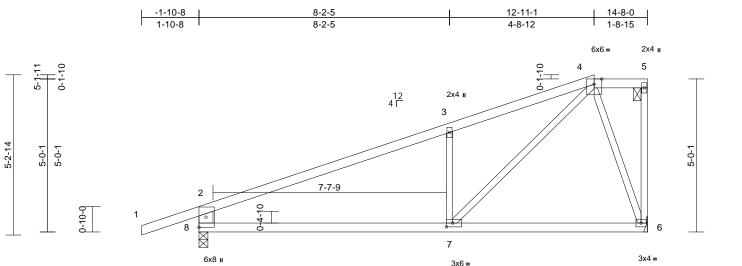
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	C8	Half Hip	1	1	Job Reference (optional)	163679801

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:06 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

> 14-8-0 6-5-11



Scale = 1:37.7

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.09	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.18	7-8	>933	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	6-7	>999	240	Weight: 52 lb	FT = 10%

8-2-5

LUMBER

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

2x3 SPF No.2 *Except* 8-2:2x6 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 4-5. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

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

Max Horiz 8=220 (LC 5)

Max Uplift 6=-129 (LC 4), 8=-201 (LC 4) Max Grav 6=634 (LC 1), 8=803 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/47, 2-3=-913/142, 3-4=-873/232,

4-5=-72/53, 5-6=-51/35, 2-8=-718/247

BOT CHORD 7-8=-141/772, 6-7=-71/191

WEBS 3-7=-439/240, 4-7=-210/826, 4-6=-573/133

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 6 and 201 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

OF MISSO **ANDREW THOMAS JOHNSON** NUMBER PE-2017018993 SSIONAL .

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Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	C9	Roof Special	1	1	Job Reference (optional)	163679802

5-2-6

Wheeler Lumber, Waverly, KS - 66871,

-1-10-8

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13-5-1

14-8-0

10-5-1

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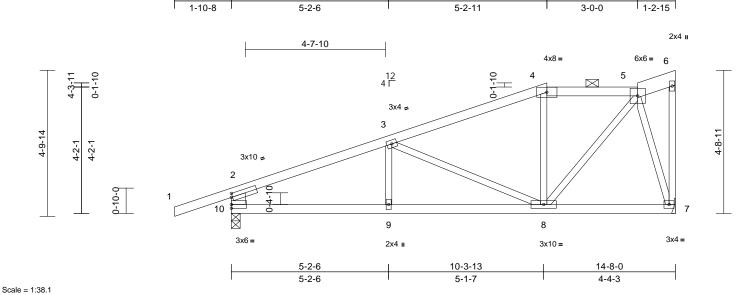


Plate Offsets (X, Y): [2:0-0-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.09	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.16	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	8-9	>999	240	Weight: 58 lb	FT = 10%

LUMBER

BRACING

TOP CHORD 2x4 SPF No.2 *Except* 5-6:2x6 SPF No.2

BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 *Except* 10-2:2x6 SP 2400F WEBS

TOP CHORD

Structural wood sheathing directly applied or 4-2-2 oc purlins, except end verticals, and

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

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

bracing

REACTIONS 7= Mechanical, 10=0-3-8 (size)

Max Horiz 10=203 (LC 5)

Max Uplift 7=-130 (LC 8), 10=-204 (LC 4)

Max Grav 7=634 (LC 1), 10=803 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/47, 2-3=-998/169, 3-4=-584/119,

4-5=-522/138, 5-6=-65/39, 6-7=-31/17,

2-10=-697/219

BOT CHORD 9-10=-180/869, 8-9=-180/869, 7-8=-50/170

WEBS 3-9=0/159, 3-8=-385/126, 4-8=-151/89,

5-8=-110/563, 5-7=-600/144

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2 .
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 7 and 204 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



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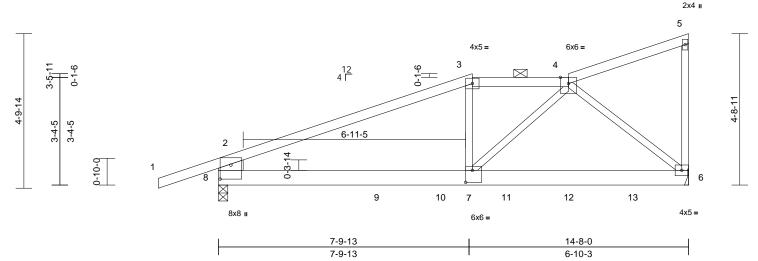




Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	C10	Roof Special Girder	1	1	Job Reference (optional)	163679803

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-1-10-8 7-11-1 10-11-1 14-8-0 1-10-8 7-11-1 3-0-0 3-8-15



Scale = 1:35.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.11	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.20	6-7	>862	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.10	6-7	>999	240	Weight: 60 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 1-3:2x4 SPF 2100F

1.8E

BOT CHORD 2x6 SPF No.2

2x3 SPF No.2 *Except* 8-2:2x10 SP 2400F **WEBS**

2.0E

BRACING TOP CHORD

Structural wood sheathing directly applied or

4-1-3 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-12 max.): 3-4.

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

bracing.

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

Max Horiz 8=204 (LC 5)

Max Uplift 6=-358 (LC 8), 8=-378 (LC 4)

Max Grav 6=1362 (LC 1), 8=1356 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/50, 2-3=-2027/482, 3-4=-1815/487, 4-5=-104/32, 5-6=-117/50, 2-8=-1097/370

7-8=-454/1825, 6-7=-276/1120

BOT CHORD **WEBS** 3-7=-81/371, 4-7=-248/973, 4-6=-1436/411

NOTES

TOP CHORD

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 358 lb uplift at joint 6 and 378 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 387 lb down and 123 lb up at 4-11-4, 211 lb down and 55 lb up at 6-11-4, 211 lb down and 68 lb up at 8-11-13, and 238 lb down and 75 lb up at 10-11-4, and 238 lb down and 75 lb up at 12-11-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 6-8=-20

Concentrated Loads (lb)

Vert: 9=-387 (B), 10=-211 (B), 11=-211 (B), 12=-238 (B), 13=-238 (B)



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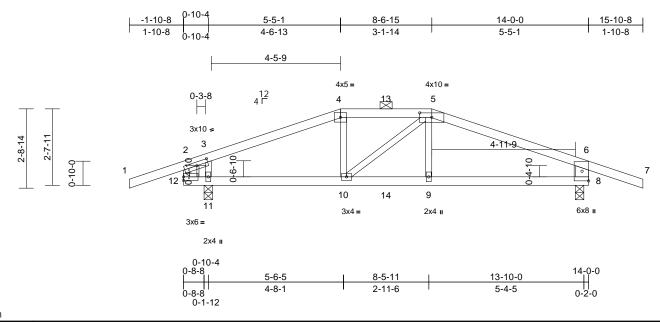
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	D1	Hip Girder	1	1	Job Reference (optional)	163679804

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Scale = 1:39.8

Plate Offsets (X, Y)	: [2:0-4-11,0-1-8],	[5:0-5-0,0-1-13]
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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.15	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.25	9-10	>617	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.13	9-10	>999	240	Weight: 46 lb	FT = 10%

LUMBER

2x4 SPF 2100F 1.8E *Except* 4-5:2x4 SPF TOP CHORD

No.2

BOT CHORD 2x4 SPF 2100F 1.8E

2x3 SPF No.2 *Except* 12-2,8-6:2x6 SP **WEBS**

2400F 2.0E

BRACING TOP CHORD

Structural wood sheathing directly applied or

5-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-12 max.): 4-5.

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

bracing.

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

Max Horiz 11=22 (LC 12)

Max Uplift 8=-276 (LC 5), 11=-310 (LC 4)

Max Grav 8=887 (LC 1), 11=977 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-909/220, 3-4=-1024/278,

4-5=-893/271, 5-6=-1170/306, 6-7=0/47, 2-12=-346/75. 6-8=-778/290

BOT CHORD 11-12=-193/887, 10-11=-178/887,

9-10=-210/1034, 8-9=-209/1023

WEBS 4-10=-34/212, 5-10=-200/62, 5-9=-30/285,

3-11=-423/214

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 276 lb uplift at joint 8 and 310 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 79 lb down and 57 lb up at 7-0-0 on top chord, and 204 lb down and 81 lb up at 5-5-1, and 27 lb down at 7-0-0, and 204 lb down and 81 lb up at 8-6-15 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-4=-70, 4-5=-70, 5-6=-70, 6-7=-70,

8-12=-20

Concentrated Loads (lb)

Vert: 10=-155 (F), 9=-155 (F), 13=-28 (F), 14=-11 (F)



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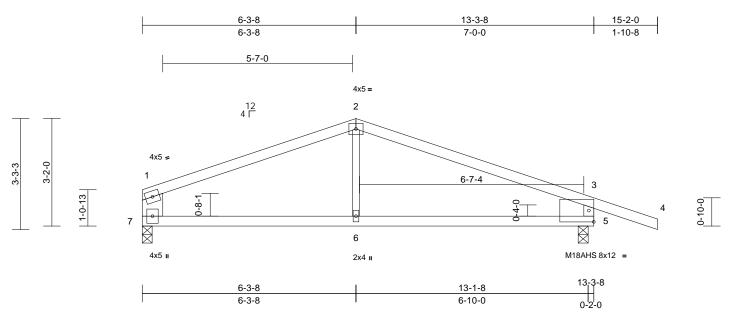
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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	D2	Common	1	1	Job Reference (optional)	163679805

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Scale = 1:33.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.10	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.21	5-6	>723	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.06	5-6	>999	240	Weight: 38 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 7-1:2x8 SP No.2, WEBS

5-3:2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-7-14 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 5=0-3-8, 7=0-3-8

Max Horiz 7=-46 (LC 5)

Max Uplift 5=-178 (LC 5), 7=-80 (LC 4)

Max Grav 5=731 (LC 1), 7=567 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-746/100, 2-3=-758/103, 3-4=0/45,

1-7=-461/112, 3-5=-640/217 **BOT CHORD** 6-7=-25/633, 5-6=-25/633

WEBS 2-6=0/226

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 7 and 178 lb uplift at joint 5.

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Page: 1

February 19,2024



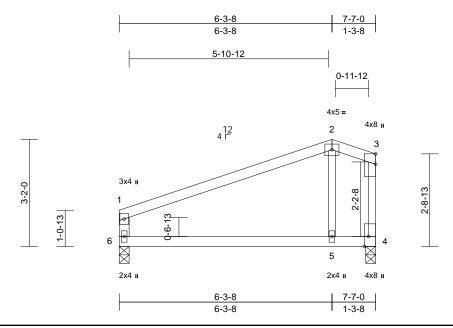
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	D3	Common	1	1	Job Reference (optional)	163679806

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:08 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:34.1

Plate Offsets (X, Y): [3:0-3-11,Edge], [4:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.07	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.17	5-6	>529	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.06	5-6	>999	240	Weight: 23 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 6-1:2x4 SP No.3 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) 4=0-3-8, 6=0-3-8

Max Horiz 6=100 (LC 5)

Max Uplift 4=-55 (LC 4), 6=-53 (LC 4) Max Grav 4=330 (LC 1), 6=330 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-186/28, 2-3=-149/51, 3-4=-142/5, TOP CHORD

1-6=-257/90

BOT CHORD 5-6=-36/110, 4-5=-36/110

WFBS 2-5=-114/101

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 6 and 55 lb uplift at joint 4.

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	D4	Common	1	1	Job Reference (optional)	163679807

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:08 $ID: Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$

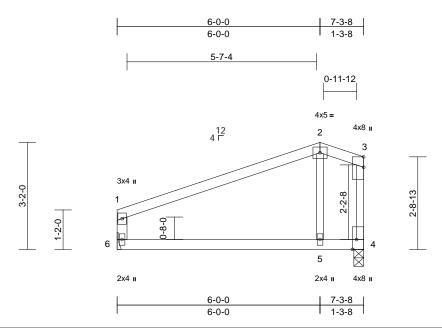


Plate Offsets (X, Y): [3:0-3-11,Edge], [4:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.06	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.14	5-6	>594	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.05	5-6	>999	240	Weight: 22 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 *Except* 6-1:2x4 SPF 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) 4=0-3-8, 6= Mechanical

Max Horiz 6=99 (LC 5)

Max Uplift 4=-52 (LC 4), 6=-51 (LC 4) Max Grav 4=317 (LC 1), 6=317 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-173/28, 2-3=-139/51, 3-4=-138/8,

1-6=-245/86

BOT CHORD 5-6=-37/100, 4-5=-37/100

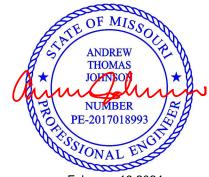
WFBS 2-5=-110/93

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 6 and 52 lb uplift at joint 4.

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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February 19,2024



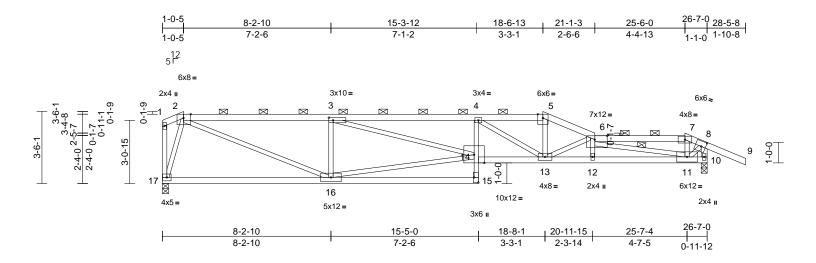
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	E1	Roof Special Girder	1	1	Job Reference (optional)	163679808

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:08 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:56.2

Plate Offsets (X, Y): [2:0-4-3,Edge], [3:0-2-8,0-1-8], [6:0-7-4,0-2-4], [8:0-2-9,0-3-0], [15:Edge,0-2-8]

-		1					-					-
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.36	14	>870	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.65	13-14	>485	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.13	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.29	15	>999	240	Weight: 103 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 2-5:2x4 SPF 2100F

1.8E

BOT CHORD 2x4 SPF No.2 *Except* 15-4:2x3 SPF No.2,

14-10:2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 10-8:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-11-13 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-4 max.): 2-5, 6-7.

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

bracing.

WFBS 1 Row at midpt

REACTIONS (size) 10=0-3-8, 17=0-3-8

Max Horiz 17=-121 (LC 6)

Max Uplift 10=-313 (LC 5), 17=-202 (LC 5)

Max Grav 10=1217 (LC 1), 17=1176 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-73/32, 2-3=-2283/438, 3-4=-3857/720, 4-5=-3013/531, 5-6=-3360/577,

6-7=-968/188, 7-8=-1041/201, 8-9=0/54,

1-17=-72/113, 8-10=-1439/321

16-17=-52/370, 15-16=-20/213, 14-15=0/118,

4-14=0/210, 13-14=-656/3879, 12-13=-705/4368, 11-12=-713/4385,

10-11=-111/55

WEBS 2-16=-353/2087, 3-16=-1008/310,

14-16=-360/2095, 3-14=-294/1634, 4-13=-1120/230, 5-13=-186/1181,

6-13=-1415/248, 6-12=-175/84, 6-11=-3560/591, 7-11=-115/175

2-17=-1241/325, 8-11=-257/1405

NOTES

BOT CHORD

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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.
- Bearings are assumed to be: Joint 17 SPF No.2 , Joint 10 SPF 2100F 1.8E .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 313 lb uplift at joint 10 and 202 lb uplift at joint 17.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 51 lb up at 32-10-11 on top chord, and 144 lb down and 855 lb up at 32-9-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

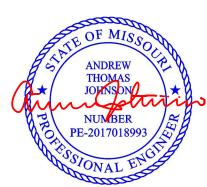
Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-5=-70, 5-6=-70, 6-7=-70, 7-8=-70,

8-9=-70, 15-17=-20, 10-14=-20

Concentrated Loads (lb)

Vert: 7=51 (F), 11=68 (F)



February 19,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	E2	Roof Special	1	1	Job Reference (optional)	163679809

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:09 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

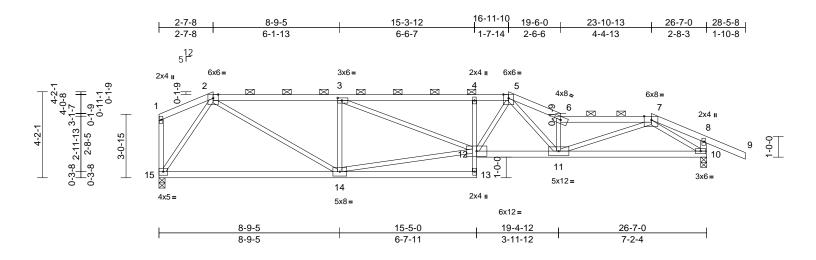


Plate Offsets (X, Y): [3:0-2-8,0-1-8], [7:0-4-3,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.23	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.41	11-12	>773	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.18	11-12	>999	240	Weight: 105 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 13-4:2x3 SPF No.2 2x3 SPF No.2 *Except* 10-8:2x4 SP No.3 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-10-13 oc purlins, except end verticals, and

2-0-0 oc purlins (2-6-6 max.): 2-5, 6-7. **BOT CHORD** Rigid ceiling directly applied or 9-10-8 oc

bracing.

REACTIONS (size) 10=0-3-8, 15=0-3-8

Max Horiz 15=-119 (LC 6)

Max Uplift 10=-236 (LC 5), 15=-176 (LC 5)

Max Grav 10=1332 (LC 1), 15=1180 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-71/40, 2-3=-1932/362, 3-4=-2762/497,

4-5=-2781/499, 5-6=-3655/573,

6-7=-3447/524, 7-8=-188/7, 8-9=0/54,

1-15=-70/23, 8-10=-291/83 $14\hbox{-}15\hbox{=-}97/704,\ 13\hbox{-}14\hbox{=-}7/139,\ 12\hbox{-}13\hbox{=}0/98,$

4-12=-441/167, 11-12=-348/2513,

10-11=-218/1524

WEBS 2-14=-213/1455, 3-14=-865/264

12-14=-274/1812, 3-12=-149/907, 5-12=-135/600, 5-11=-161/1282, 6-11=-1575/301, 7-11=-271/2052

2-15=-1237/263, 7-10=-1734/346

NOTES

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 15 and 236 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



February 19,2024



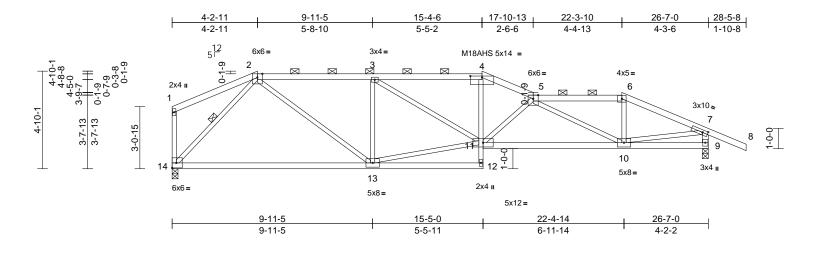
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	E3	Roof Special	1	1	Job Reference (optional)	163679810

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:10 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



-						·						•
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.23	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.49	13-14	>643	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.08	9	n/a	n/a		

Matrix-S

E	3(CD	L		
_		IM	ь	ED	

TOP CHORD 2x4 SPF No.2

2x4 SPF 2100F 1.8E *Except* 12-4:2x3 SPF **BOT CHORD**

10.0

Code

No.2. 11-9:2x4 SPF No.2

2x3 SPF No.2 *Except* 9-7:2x4 SP No.3 WFBS

Plate Offsets (X, Y): [4:0-7-0,0-0-14], [7:0-3-3,0-1-8]

BRACING

BOT CHORD

Structural wood sheathing directly applied or TOP CHORD 3-8-12 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-1 max.): 2-4, 5-6.

Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt 2-14 REACTIONS (size) 9=0-3-8, 14=0-3-8

Max Horiz 14=-118 (LC 6)

Max Uplift 9=-219 (LC 5), 14=-153 (LC 5) Max Grav 9=1332 (LC 1), 14=1180 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-94/55, 2-3=-1726/311, 3-4=-2175/366,

4-5=-2384/382, 5-6=-1677/243,

6-7=-1891/247, 7-8=0/54, 1-14=-145/57,

7-9=-1298/230

BOT CHORD 13-14=-112/903. 12-13=-34/56. 11-12=0/49.

4-11=-61/667, 10-11=-382/2758, 9-10=-14/84

WEBS 2-13=-122/1077, 3-13=-780/227 11-13=-177/1697, 3-11=-94/540,

5-11=-800/185, 5-10=-1227/240, 6-10=0/404,

2-14=-1284/236, 7-10=-197/1639

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- Provide adequate drainage to prevent water ponding.
- 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.

Wind(LL)

0.11

10-11

>999

240

- * 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.
- Bearings are assumed to be: Joint 14 SPF 2100F 1.8E, Joint 9 SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 9 and 153 lb uplift at joint 14.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

IRC2018/TPI2014



Weight: 105 lb

FT = 10%

February 19,2024



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Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	E4	Roof Special	1	1	Job Reference (optional)	163679811

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:10 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

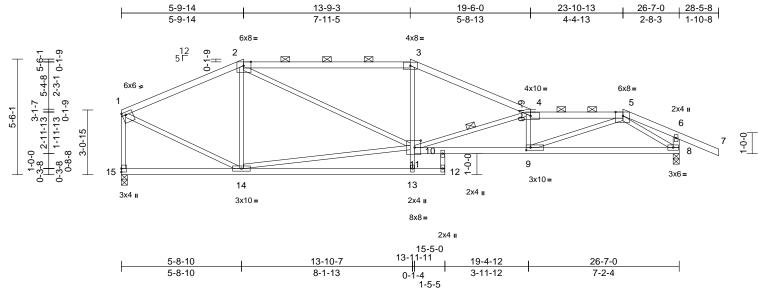


Plate Offsets (X, Y): [1:0-2-0,0-1-8], [2:0-4-3,Edge], [5:0-4-3,Edge], [9:0-2-8,0-1-8], [11:0-3-8,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.21	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.37	9-10	>848	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.15	9-10	>999	240	Weight: 108 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 2-3:2x4 SPF 2100F TOP CHORD

1.8E

BOT CHORD 2x4 SPF No.2 *Except* 12-10:2x3 SPF No.2 **WEBS** 2x3 SPF No.2 *Except* 8-6:2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-5 oc purlins, except end verticals, and

2-0-0 oc purlins (2-7-7 max.): 2-3, 4-5.

BOT CHORD Rigid ceiling directly applied or 9-9-2 oc bracing.

WEBS 1 Row at midpt 4-11

REACTIONS (size) 8=0-3-8, 15=0-3-8 Max Horiz 15=-116 (LC 6)

> Max Uplift 8=-207 (LC 5), 15=-124 (LC 5) Max Grav 8=1332 (LC 1), 15=1180 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1223/185, 2-3=-1919/298,

3-4=-2170/292, 4-5=-3473/419, 5-6=-196/3, 6-7=0/54, 1-15=-1135/149, 6-8=-299/88

BOT CHORD 14-15=-16/80, 13-14=0/129, 12-13=-2/88, 10-12=-89/0. 10-11=-355/3346.

9-10=-357/3434, 8-9=-174/1517

WEBS 2-14=-494/157, 2-11=-125/989, 11-13=0/313, 3-11=0/400, 11-14=-79/960, 4-11=-1567/267,

4-9=-620/151, 5-9=-205/2088, 1-14=-125/1170, 5-8=-1718/299

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 15 and 207 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



February 19,2024



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



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	E5	Roof Special Girder	1	1	Job Reference (optional)	l63679812

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:11 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

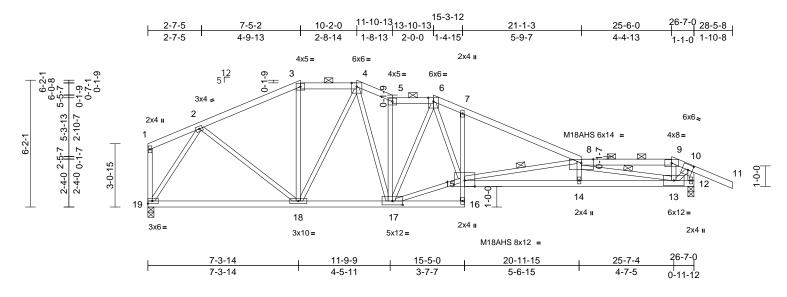


Plate Offsets (X, Y): [8:0-7-0,0-2-4], [10:0-2-9,0-3-0], [17:0-6-0,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.34	14-15	>930	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.63	14-15	>500	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.12	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.25	14-15	>999	240	Weight: 118 lb	FT = 10%

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 16-7:2x3 SPF No.2, **BOT CHORD**

15-12:2x4 SPF 2100F 1.8E

2x3 SPF No.2 *Except* 12-10:2x4 SPF No.2 WFBS

BRACING

Structural wood sheathing directly applied or

TOP CHORD

2-8-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-15 max.): 3-4, 5-6, 8-9.

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

bracing.

WEBS 1 Row at midpt 8-15, 8-13

REACTIONS (size) 12=0-3-8, 19=0-3-8 Max Horiz 19=-115 (LC 6)

Max Uplift 12=-286 (LC 9), 19=-99 (LC 8) Max Grav 12=1217 (LC 1), 19=1176 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-60/42, 2-3=-1244/173, 3-4=-1085/176,

4-5=-1635/293, 5-6=-1493/252, 6-7=-2352/417, 7-8=-2425/347,

8-9=-944/188, 9-10=-1023/198, 10-11=0/54,

1-19=-45/21, 10-12=-1417/296

BOT CHORD 18-19=-58/681, 17-18=-66/1255

16-17=-13/30, 15-16=0/66, 7-15=-277/187,

14-15=-627/4472, 13-14=-636/4474,

12-13=-110/57

WEBS 2-18=-16/534, 3-18=-18/228, 4-18=-460/125

4-17=-190/834, 5-17=-706/160, 6-17=-577/108, 15-17=-127/1737 6-15=-269/1390, 8-15=-2331/405, 8-14=-23/139, 8-13=-3688/515,

9-13=-130/173, 2-19=-1262/163,

10-13=-241/1370

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated. 4)
- This truss has been designed for a 10.0 psf bottom 5)
- 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.
- Bearings are assumed to be: Joint 19 SPF No.2 , Joint 12 SPF 2100F 1.8E .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 lb uplift at joint 12 and 99 lb uplift at joint 19.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 51 lb up at 32-10-11 on top chord, and 144 lb down and 855 lb up at 32-9-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 6-8=-70, 8-9=-70, 9-10=-70, 10-11=-70, 16-19=-20, 12-15=-20 Concentrated Loads (lb)



Vert: 9=51 (B), 13=68 (B)

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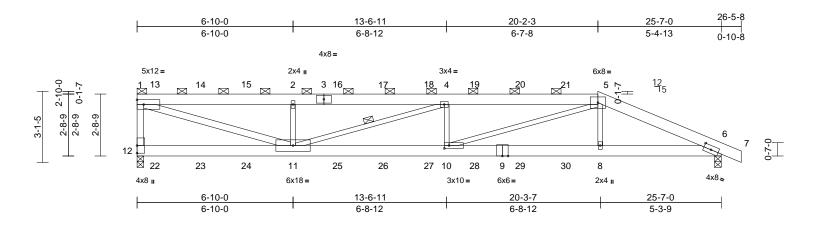
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	G1	Half Hip Girder	1	1	Job Reference (optional)	163679813

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb.16.08:46:12 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:50.5

Plate Offsets (X, Y):	[6:0-4-0,0-2-2], [10:0-2-8,0-1-8	3]
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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.27	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.50	10-11	>612	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.08	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.23	10-11	>999	240	Weight: 135 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SPF No.2 *Except* 3-5:2x6 SP 2400F

2.0E

BOT CHORD 2x6 SP 2400F 2.0E *Except* 9-6:2x6 SPF No.2

2x3 SPF No.2 *Except* 12-1:2x4 SPF No.2, **WEBS**

11-1:2x4 SPF 2100F 1.8E

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-3-9 oc purlins, except end verticals, and

2-0-0 oc purlins (2-5-12 max.): 1-5.

BOT CHORD Rigid ceiling directly applied or 8-6-8 oc

bracing.

WEBS 1 Row at midpt 4-11

REACTIONS (size) 6=0-3-8, 12=0-3-8 Max Horiz 12=-103 (LC 6)

Max Uplift 6=-397 (LC 5), 12=-428 (LC 4)

Max Grav 6=2049 (LC 1), 12=2127 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-12=-1960/486, 1-2=-4754/976,

2-4=-4754/976, 4-5=-6008/1235, 5-6=-4507/875, 6-7=0/18

BOT CHORD 11-12=-13/172, 10-11=-1157/6005,

8-10=-747/4040, 6-8=-747/4066 WFBS

1-11=-980/4874, 2-11=-868/399, 4-11=-1319/280, 4-10=-463/305,

5-10=-434/2181, 5-8=-9/602

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 428 lb uplift at joint 12 and 397 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 134 lb down and 74 lb up at 0-9-8, 126 lb down and 76 lb up at 2-9-8, 126 lb down and 76 lb up at 4-9-8, 126 lb down and 76 lb up at 6-9-8, 126 lb down and 76 lb up at 8-9-8, 126 lb down and 76 lb up at 10-9-8, 126 lb down and 76 lb up at 12-9-8, 126 lb down and 76 lb up at 14-9-8, and 126 lb down and 76 lb up at 16-9-8, and 126 lb down and 76 lb up at 18-9-8 on top chord, and 74 lb down at 0-9-8, 67 lb down at 2-9-8, 67 lb down at 4-9-8, 67 lb down at 6-9-8, 67 lb down at 8-9-8, 67 lb down at 10-9-8, 67 lb down at 12-9-8, 67 lb down at 14-9-8, 67 lb down at 16-9-8, and 67 lb down at 18-9-8, and 353 lb down and 107 lb up at 20-2-3 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-5=-70, 5-7=-70, 6-12=-20

Concentrated Loads (lb)

Vert: 11=-43 (F), 2=-103 (F), 8=-353 (F), 13=-115 (F), 14=-103 (F), 15=-103 (F), 16=-103 (F), 17=-103 (F), 18=-103 (F), 19=-103 (F), 20=-103 (F), 21=-103 (F), 22=-47 (F), 23=-43 (F), 24=-43 (F), 25=-43 (F), 26=-43 (F), 27=-43 (F), 28=-43 (F), 29=-43 (F), 30=-43 (F)



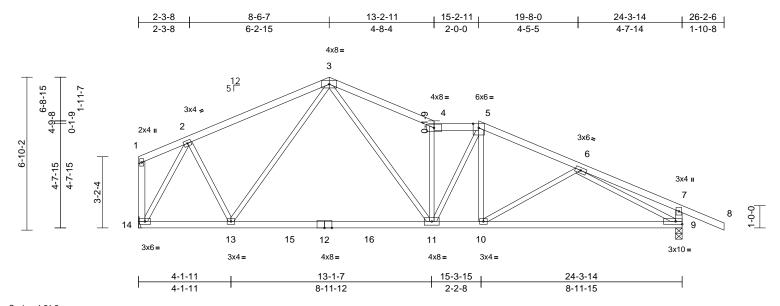
February 19,2024





Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	G2	Roof Special	1	1	Job Reference (optional)	l63679814

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb.16.08:46:12 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:51.5

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.25	11-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.43	11-13	>674	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	11	>999	240	Weight: 102 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 14-1:2x4 SPF No.2, WEBS 9-7:2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-7 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-4 max.): 4-5.

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

bracing.

REACTIONS (size) 9=0-3-8, 14= Mechanical

Max Horiz 14=-111 (LC 4) Max Uplift 9=-50 (LC 9)

Max Grav 9=1251 (LC 2), 14=1141 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-39/76, 2-3=-1007/49, 3-4=-1742/104,

4-5=-1587/59, 5-6=-1656/52, 6-7=-324/0,

7-8=0/54, 1-14=-21/43, 7-9=-384/51 13-14=0/630, 11-13=0/960, 10-11=0/1485,

BOT CHORD 9-10=-34/1492

WEBS 2-13=0/533, 3-13=-260/56, 3-11=-47/1058,

4-11=-832/92 5-11=-9/239 5-10=0/208

2-14=-1321/27, 6-9=-1489/97, 6-10=-97/102

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2 Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



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Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	G3	Roof Special	1	1	Job Reference (optional)	163679815

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:12 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

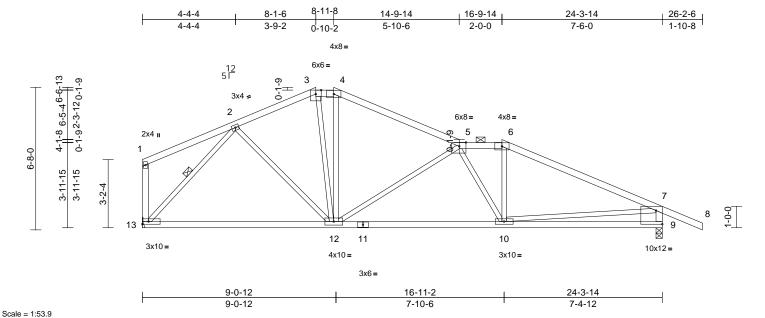


Plate Offsets (X, Y): [5:0-3-13,Edge], [9:Edge,0-7-11]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	. ,	Plate Grip DOL	1.15	TC		Vert(LL)		12-13			MT20	197/144
TCDL	10.0	Lumber DOL	1.15	вс	0.69	Vert(CT)	-0.33	12-13	>883	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	10-12	>999	240	Weight: 101 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 13-1:2x4 SPF No.2,

9-7:2x4 SP No.3

BRACING

BOT CHORD

WEBS

Structural wood sheathing directly applied or TOP CHORD 3-1-15 oc purlins, except end verticals, and

> 2-0-0 oc purlins (4-7-0 max.): 3-4, 5-6. Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 2-13

REACTIONS (size) 9=0-3-8, 13= Mechanical

Max Horiz 13=-110 (LC 4)

Max Uplift 9=-49 (LC 9)

Max Grav 9=1229 (LC 1), 13=1075 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-102/46, 2-3=-1089/57, 3-4=-1008/64,

> 4-5=-1169/44, 5-6=-1483/66, 6-7=-1723/43, 7-8=0/54, 1-13=-149/30, 7-9=-1157/88

BOT CHORD 12-13=0/795, 10-12=0/1635, 9-10=-65/430

2-12=0/313, 3-12=-44/384, 4-12=-16/189,

5-12=-745/97, 5-10=-310/27, 6-10=0/337,

2-13=-1136/18, 7-10=0/1068

NOTES

WEBS

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 SPF No.2.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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





Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	G4	Roof Special	1	1	Job Reference (optional)	l63679816

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb.16.08:46:13 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

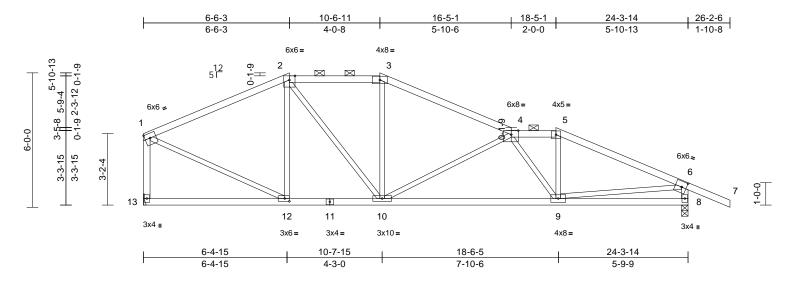


Plate Offsets (X, Y): [1:Edge,0-2-8], [4:0-3-13,Edge], [6:0-2-9,0-3-0], [12:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.11	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.25	9-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	9-10	>999	240	Weight: 98 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 13-1:2x4 SPF No.2,

8-6:2x4 SP No.3

BRACING

WEBS

Structural wood sheathing directly applied or TOP CHORD 3-9-14 oc purlins, except end verticals, and

2-0-0 oc purlins (4-7-4 max.): 2-3, 4-5. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing

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

Max Horiz 13=-110 (LC 4) Max Uplift 8=-44 (LC 9)

Max Grav 8=1229 (LC 1), 13=1075 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1089/37, 2-3=-1179/55, 3-4=-1358/35,

4-5=-1518/44, 5-6=-1743/26, 6-7=0/54,

1-13=-1012/21, 6-8=-1176/70

12-13=-12/101, 10-12=0/936, 9-10=0/1818, **BOT CHORD**

8-9=-35/237

2-12=-314/58, 2-10=-31/483, 3-10=0/235,

4-10=-723/94, 4-9=-534/46, 5-9=0/406,

1-12=0/963, 6-9=0/1306

NOTES

WEBS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 SPF No.2.
- Refer to girder(s) for truss to truss connections. 7)
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



February 19,2024



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



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	G5	Roof Special	1	1	Job Reference (optional)	163679817

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb.16.08:46:13 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

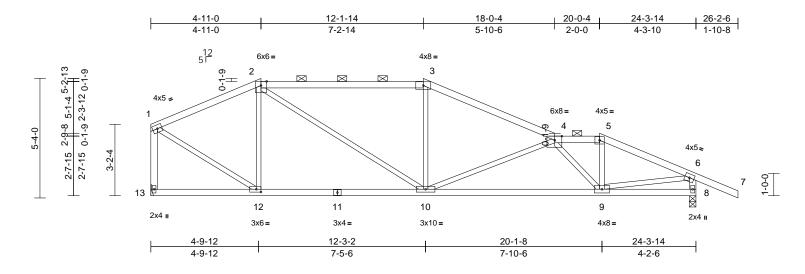


Plate Offsets (X, Y): [4:0-3-13,Edge], [12:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.10	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.23	9-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	9-10	>999	240	Weight: 94 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 2-3:2x4 SPF 2100F

1.8E

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 13-1:2x4 SPF No.2,

8-6:2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-8-11 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-11 max.): 2-3, 4-5.

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

bracing.

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

Max Horiz 13=-110 (LC 4)

Max Uplift 8=-39 (LC 5), 13=-3 (LC 4)

Max Grav 8=1229 (LC 1), 13=1075 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1001/45, 2-3=-1383/48, 3-4=-1573/35,

4-5=-1479/22, 5-6=-1684/8, 6-7=0/54, 1-13=-1039/21. 6-8=-1191/52

BOT CHORD 12-13=-20/90, 10-12=0/886, 9-10=0/2003,

8-9=-10/96

WEBS 2-12=-414/83, 2-10=-24/647, 3-10=0/256,

4-10=-671/98, 4-9=-800/53, 5-9=0/458,

1-12=-7/1009, 6-9=0/1427

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 SPF No.2.
- Refer to girder(s) for truss to truss connections. 7)
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 13 and 39 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



February 19,2024



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



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	G6	Roof Special	1	1	Job Reference (optional)	163679818

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb.16.08:46:14 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

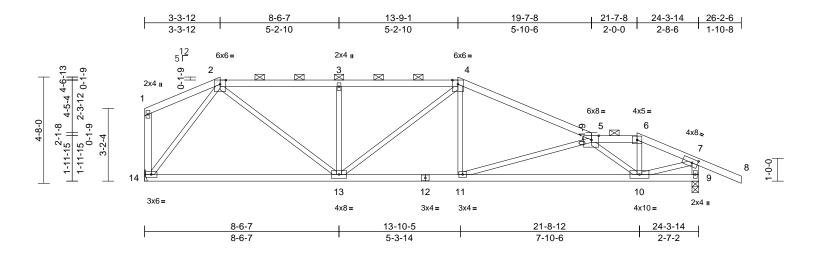


Plate Offsets (X, Y): [5:0-3-13,Edge], [7:0-2-15,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.15	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.32	13-14	>887	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	10-11	>999	240	Weight: 95 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 9-7:2x4 SPF No.2, WEBS

14-1:2x4 SP No.3

BRACING

Structural wood sheathing directly applied or TOP CHORD 3-1-9 oc purlins, except end verticals, and

2-0-0 oc purlins (4-5-11 max.): 2-4. 5-6.

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

bracing, Except:

6-0-0 oc bracing: 9-10.

REACTIONS 9=0-3-8, 14= Mechanical (size)

Max Horiz 14=-140 (LC 4)

Max Uplift 9=-189 (LC 5), 14=-143 (LC 4) Max Grav 9=1229 (LC 1), 14=1075 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-88/48, 2-3=-1480/263, 3-4=-1480/262,

4-5=-1764/247, 5-6=-1309/122,

6-7=-1485/126, 7-8=0/54, 7-9=-1219/174,

1-14=-113/40

BOT CHORD 13-14=-46/696, 11-13=-128/1542,

10-11=-256/2290, 9-10=-5/30

7-10=-104/1402, 2-14=-1105/221

WEBS 2-13=-119/1024, 3-13=-444/174

4-13=-99/109, 4-11=0/382, 5-11=-770/222, 5-10=-1266/241, 6-10=-28/499,

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2.
- 7) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 189 lb uplift at joint 9 and 143 lb uplift at joint 14.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

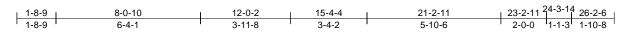
LOAD CASE(S) Standard



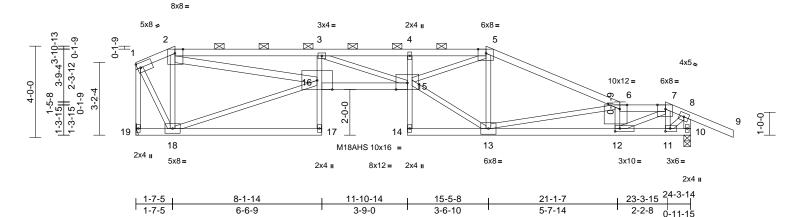


Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	G7	Roof Special Girder	1	1	Job Reference (optional)	163679819

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:14 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



_1<u>2</u> 5 Γ



Scale = 1:50.5

Plate Offsets (X, Y): [2:0-4-3,Edge], [5:0-4-3,Edge], [6:0-3-13,Edge], [7:0-4-3,Edge], [11:0-2-8,0-1-8], [12:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.38	15-16	>766	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.68	15-16	>425	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.34	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.28	15-16	>999	240	Weight: 105 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 2-5:2x4 SPF 2100F

1.8E

BOT CHORD 2x4 SPF No.2 *Except* 17-3,4-14:2x3 SPF No.2, 16-15:2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 16-2,10-8:2x4 SPF

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-10-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-9-9 max.): 2-5, 6-7.

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

bracing, Except:

6-0-0 oc bracing: 11-12,10-11.

REACTIONS (size) 10=0-3-8, 19= Mechanical

Max Horiz 19=-139 (LC 4)

Max Uplift 10=-262 (LC 5), 19=-171 (LC 4) Max Grav 10=1167 (LC 1), 19=1075 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-512/105, 2-3=-4374/710,

3-4=-4308/644, 4-5=-4247/642,

5-6=-1957/294, 6-7=-2505/344, 7-8=-800/147, 8-9=0/54, 1-19=-1102/148,

8-10=-1179/276

BOT CHORD

18-19=-20/114, 17-18=-2/73, 16-17=0/114, 3-16=-351/156, 15-16=-595/4430,

14-15=0/41, 4-15=-272/93, 13-14=-8/51,

12-13=-293/2420, 11-12=-94/766,

10-11=-64/49

2-18=-980/219, 16-18=-12/476,

2-16=-605/3931, 3-15=-313/73, 13-15=-215/1975, 5-15=-377/2736,

5-13=-742/152, 6-13=-695/192, 6-12=-914/192, 7-12=-260/2007, 7-11=-867/69, 1-18=-157/1072,

8-11=-162/962

1) Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- Provide adequate drainage to prevent water ponding.
- 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 19 and 262 lb uplift at joint 10.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 8 lb up at 29-5-11 on top chord, and 141 lb down and 834 lb up at 29-4-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-5=-70, 5-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 17-19=-20, 15-16=-20, 10-14=-20 Concentrated Loads (lb)

Vert: 11=66 (B)



February 19,2024



WEBS

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



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	G8	Half Hip	1	1	Job Reference (optional)	163679820

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb.16.08:46:15 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

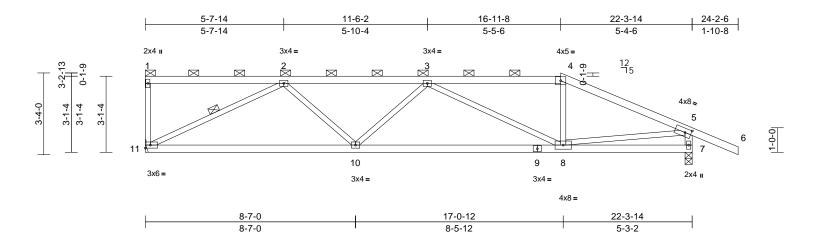


Plate Offsets (X, Y): [5:0-2-15,0-2-0]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.14	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.31	10-11	>859	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	8-10	>999	240	Weight: 79 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 7-5:2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-3-11 oc purlins, except end verticals, and

2-0-0 oc purlins (4-0-11 max.): 1-4. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

WFBS 1 Row at midpt 2-11

REACTIONS (size) 7=0-3-8, 11= Mechanical

Max Horiz 11=-104 (LC 6)

Max Uplift 7=-60 (LC 5), 11=-50 (LC 4) Max Grav 7=1141 (LC 1), 11=987 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-11=-167/38, 1-2=-53/22, 2-3=-1834/57,

3-4=-1381/48, 4-5=-1577/39, 5-6=0/54,

5-7=-1096/81

BOT CHORD 10-11=-52/1505, 8-10=-57/1969, 7-8=-21/158

2-11=-1649/122, 2-10=0/501, 3-10=-187/97,

3-8=-729/85, 4-8=0/316, 5-8=-9/1244

WEBS NOTES

FORCES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 11 and 60 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



February 19,2024



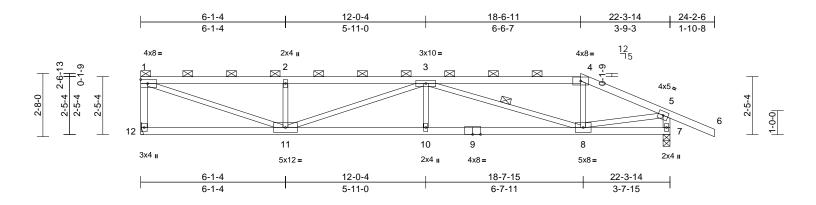
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	G9	Half Hip	1	1	Job Reference (optional)	163679821

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb.16.08:46:16 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:48.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.18	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.33	10-11	>812	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.10	10-11	>999	240	Weight: 79 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 12-1,7-5:2x4 SPF WEBS

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-7-1 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-8 max.): 1-4.

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

bracing.

WEBS 1 Row at midpt 3-8

REACTIONS (size) 7=0-3-8, 12= Mechanical

Max Horiz 12=-82 (LC 4)

Max Uplift 7=-70 (LC 5), 12=-50 (LC 4) Max Grav 7=1139 (LC 1), 12=985 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-12=-922/80, 1-2=-2094/110, 2-3=-2094/110,

3-4=-1357/60, 4-5=-1520/52, 5-6=0/54,

5-7=-1113/81

BOT CHORD $11\text{-}12\text{=}0/96,\ 10\text{-}11\text{=}\text{-}81/2617,\ 8\text{-}10\text{=}\text{-}81/2617,$

7-8=0/42

WFBS 1-11=-108/2145, 2-11=-423/101, 3-10=0/252,

4-8=0/298, 5-8=-38/1390, 3-11=-556/35,

3-8=-1360/88

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 12 and 70 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



February 19,2024



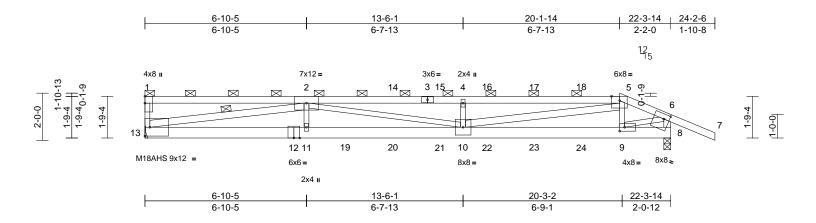
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Tr	russ	Truss Type	Qty	Ply	Lot 195 HT	
B240015	G	§10	Half Hip Girder	1	1	Job Reference (optional)	163679822

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb.16.08:46:16 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:48.9

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

Loading	(nef)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
Loading	(psf)	Spacing	2-0-0	631		DEFL	1111	(IUC)	i/ueii	L/u	FLAILS	GKIF
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.34	10-11	>773	360	M18AHS	142/136
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.63	10-11	>422	240	MT20	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.29	10-11	>914	240	Weight: 102 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 5-7:2x4 SPF

No.2

BOT CHORD 2x6 SPF No 2 *Except* 12-8:2x6 SP 2400F 2.0E

WEBS 2x3 SPF No.2 *Except* 13-2,10-5:2x4 SPF

No.2, 8-6:2x4 SPF 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-4-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-9-12 max.): 1-5.

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

bracing, Except:

8-6-0 oc bracing: 11-13. WFBS 1 Row at midpt 2-13

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

Max Horiz 13=-75 (LC 6)

Max Uplift 8=-280 (LC 5), 13=-218 (LC 4) Max Grav 8=1220 (LC 1), 13=1129 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-13=-222/87, 1-2=-163/53, 2-4=-4203/827, 4-5=-4203/827, 5-6=-1650/331, 6-7=0/54,

6-8=-1275/280

BOT CHORD 11-13=-751/4108, 10-11=-751/4108,

9-10=-281/1563, 8-9=-2/116

WEBS 2-13=-4028/777, 2-11=0/387, 2-10=-54/371,

4-10=-481/208, 5-9=-321/124 6-9=-325/1619, 5-10=-523/2697

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- Provide adequate drainage to prevent water ponding. 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.
- Bearings are assumed to be: Joint 13 SPF No.2, Joint 8 SP 2400F 2.0E
- Refer to girder(s) for truss to truss connections
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at joint 13 and 280 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 65 lb down and 26 lb up at 10-6-7, 65 lb down and 26 lb up at 12-6-7, 65 lb down and 26 lb up at 14-6-7, and 65 lb down and 26 lb up at 16-6-7, and 65 lb down and 26 lb up at 18-6-7 on top chord, and 231 lb down and 48 lb up at 8-6-2, 19 lb down and 1 lb up at 10-6-7, 19 lb down and 1 lb up at 12-6-7, 19 lb down and 1 lb up at 14-6-7, 19 lb down and 1 lb up at 16-6-7, and 19 lb down and 1 lb up at 18-6-7, and 92 lb down and 37 lb up at 20-1-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-5=-70, 5-6=-70, 6-7=-70, 8-13=-20 Concentrated Loads (lb)

Vert: 9=11 (B), 14=-2 (B), 15=-2 (B), 16=-2 (B), 17=-2 (B), 18=-2 (B), 19=-231 (B), 20=1 (B), 21=1 (B), 22=1 (B), 23=1 (B), 24=1 (B)



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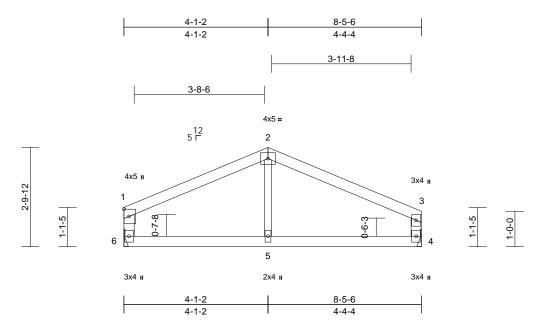
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Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	H1	Common	1	1	Job Reference (optional)	163679823

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:17 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:32.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.03	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.06	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 24 lb	FT = 10%

LUMBER

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

2x4 SP No.3 *Except* 5-2:2x3 SPF 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) 4= Mechanical, 6= Mechanical

Max Horiz 6=-27 (LC 6)

Max Uplift 4=-5 (LC 9), 6=-4 (LC 8) Max Grav 4=367 (LC 1), 6=367 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=-371/21, 2-3=-373/19, 3-4=-289/32,

TOP CHORD

1-6=-284/29 5-6=0/283, 4-5=0/283

BOT CHORD WFBS 2-5=0/122

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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 SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 6 and 5 lb uplift at joint 4.

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

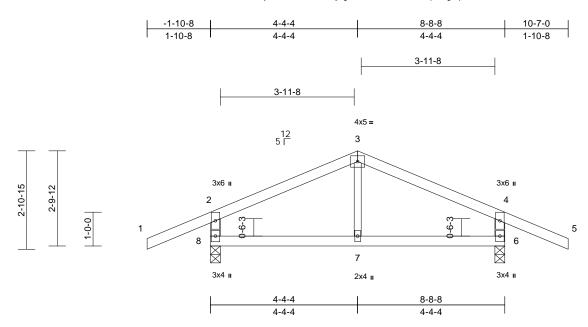






Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	H2	Common	2	1	Job Reference (optional)	163679824

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:17 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:34.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.03	7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.05	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	7-8	>999	240	Weight: 29 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 7-3:2x3 SPF 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) 6=0-3-8, 8=0-3-8

Max Horiz 8=-23 (LC 6)

Max Uplift 6=-97 (LC 9), 8=-97 (LC 8) Max Grav 6=520 (LC 1), 8=520 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/54, 2-3=-343/51, 3-4=-343/51, 4-5=0/54, 2-8=-447/123, 4-6=-447/123

BOT CHORD 7-8=0/245, 6-7=0/245

WFBS 3-7=0/141

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 8 and 97 lb uplift at joint 6.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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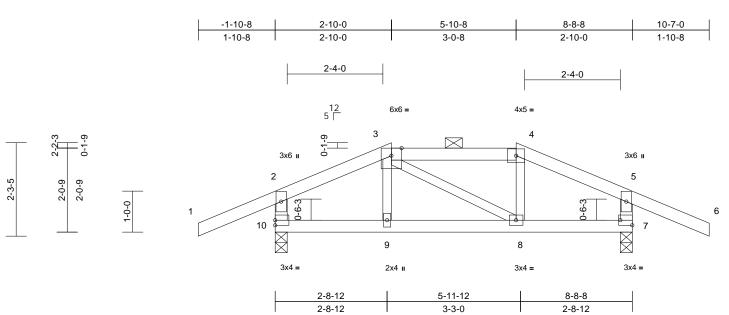
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Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	H3	Hip	1	1	Job Reference (optional)	163679825

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:17 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:28.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.04	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	8-9	>999	240	Weight: 32 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 10-2,7-5:2x4 SPF 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.): 3-4.

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

bracing.

REACTIONS (size) 7=0-3-8, 10=0-3-8

Max Horiz 10=-24 (LC 6)

Max Uplift 7=-107 (LC 5), 10=-107 (LC 4)

Max Grav 7=520 (LC 1), 10=520 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/54, 2-3=-360/48, 3-4=-272/54,

4-5=-360/48, 5-6=0/54, 2-10=-434/113,

5-7=-434/113

BOT CHORD 9-10=0/272, 8-9=0/272, 7-8=0/272 WEBS 3-9=-6/82, 3-8=-15/17, 4-8=-9/83

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 10 and 107 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

OF MISSO **ANDREW THOMAS** JOHN SO NUMBER PE-2017018993 O STONAL

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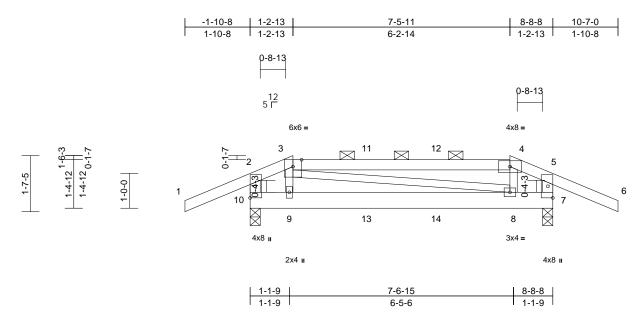
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Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	H4	Hip Girder	1	1	Job Reference (optional)	163679826

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb.16.08:46:18 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:33.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.02	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.04	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	-0.02	8-9	>999	240	Weight: 38 lb	FT = 10%

LUMBER

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x6 SPF No.2

2x3 SPF No.2 *Except* 10-2,7-5:2x4 SPF WEBS

No.2

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.): 3-4. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 7=0-3-8, 10=0-3-8

Max Horiz 10=24 (LC 7)

Max Uplift 7=-349 (LC 28), 10=-349 (LC 29) Max Grav 7=481 (LC 17), 10=481 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/54, 2-3=-396/370, 3-4=-345/253,

4-5=-390/369, 5-6=0/54, 2-10=-305/201,

5-7=-311/208

BOT CHORD 9-10=-308/370. 8-9=-260/376. 7-8=-298/357 WFBS 3-9=-476/113, 3-8=-60/56, 4-8=-492/124

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2 .

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 349 lb uplift at joint 10 and 349 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 45 lb down and 12 lb up at 1-2-13, 50 lb down and 11 lb up at 3-4-4, and 50 lb down and 11 lb up at 5-4-4, and 45 lb down and 12 lb up at 7-5-11 on top chord, and 112 lb down and 689 lb up at 1-2-13, 14 lb down and 16 lb up at 3-4-4, and 14 lb down and 16 lb up at 5-4-4, and 112 lb down and 689 lb up at 7-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70,

7-10=-20

Concentrated Loads (lb) Vert: 9=50 (B), 8=50 (B)



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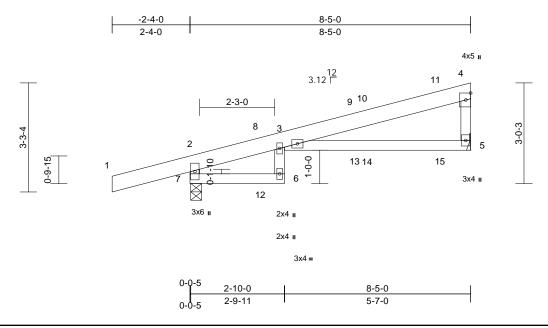
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Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J1	Diagonal Hip Girder	1	1	Job Reference (optional)	163679827

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:18 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:34.5

Plate Offsets (X, Y): [3:0-2-10,0-0-5]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.11	3-5	>878	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.21	3-5	>468	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.09	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.10	3-5	>961	240	Weight: 32 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF 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 6-0-0 oc

bracing.

REACTIONS 5= Mechanical, 7=0-3-14 (size)

Max Horiz 7=106 (LC 5)

Max Uplift 5=-125 (LC 8), 7=-171 (LC 4)

Max Grav 5=482 (LC 1), 7=575 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/44, 2-3=-159/11, 3-4=-206/30, 4-5=-339/125 2-7=-555/187

6-7=-3/16, 3-6=0/60, 3-5=-47/164

BOT CHORD

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 5 and 171 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 134 lb up at 3-0-9, 63 lb down and 36 lb up at 3-3-12, 108 lb down and 57 lb up at 5-10-8, and 92 lb down and 48 lb up at 6-2-15, and 97 lb down and 59 lb up at 8-5-4 on top chord, and 18 lb down and 21 lb up at 3-0-9, 3 lb down at 3-3-12, at 5-10-8, and 22 lb down and 23 lb up at 6-2-15, and 63 lb down and 18 lb up at 8-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. In the LOAD CASE(S) section, loads applied to the face
- of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 6-7=-20, 3-5=-20

Concentrated Loads (lb)

Vert: 8=35 (B), 9=-39 (F), 10=-1 (B), 11=-63 (F),

14=-20 (B), 15=-63 (F)



February 19,2024



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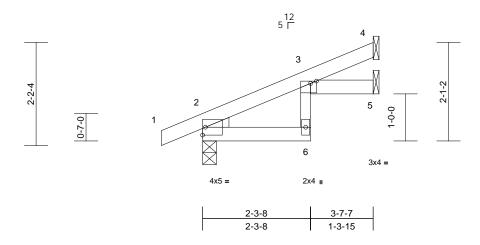
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J2	Jack-Open	1	1	Job Reference (optional)	163679828

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:18 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

-0-10-8	2-2-4	3-7-7
0-10-8	2-2-4	1-5-3



Scale = 1:24.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.02	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.03	6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.02	6	>999	240	Weight: 11 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS WEDGE Left: 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-7-7 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 4= Mechanical, 5=

Mechanical

Max Horiz 2=75 (LC 8)

Max Uplift 2=-37 (LC 8), 4=-52 (LC 8)

Max Grav 2=236 (LC 1), 4=129 (LC 1), 5=27

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-78/0, 3-4=-26/46

BOT CHORD 2-6=0/0, 3-5=-3/3

WEBS 3-6=0/41

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 4 and 37 lb uplift at joint 2.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J3	Jack-Open	1	1	Job Reference (optional)	163679829

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:19 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

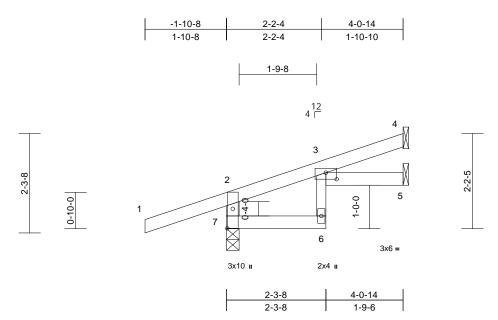


Plate Offsets (X, Y): [3:0-3-0,0-1-13], [7:0-5-6,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.01	3	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.02	6	>999	240	Weight: 13 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 6-3:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-14 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical, 7=0-3-8

Max Horiz 7=79 (LC 4)

Max Uplift 4=-34 (LC 8), 5=-4 (LC 8), 7=-122

(LC 4)

4=85 (LC 1), 5=60 (LC 3), 7=352 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-320/135, 1-2=0/45, 2-3=-59/0,

3-4=-17/23

BOT CHORD 6-7=0/0, 3-5=-8/4 WEBS 3-6=0/40

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 7, 34 lb uplift at joint 4 and 4 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Page: 1

February 19,2024



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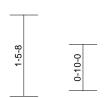
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

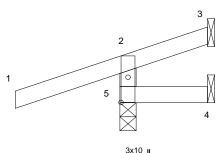


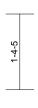
Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J4	Jack-Open	1	1	Job Reference (optional)	163679830

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:19 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

1	
-1-10-8	1-6-14
1-10-8	1-6-14







Page: 1

1-6-14

Scale = 1:20.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 6 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-6-14 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

Max Horiz 5=46 (LC 4)

Max Uplift 3=-22 (LC 1), 4=-16 (LC 1), 5=-143

(LC 4)

3=16 (LC 4), 4=18 (LC 4), 5=306 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-262/142, 1-2=0/45, 2-3=-38/4

BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 5, 16 lb uplift at joint 4 and 22 lb uplift at joint 3.

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



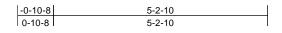
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

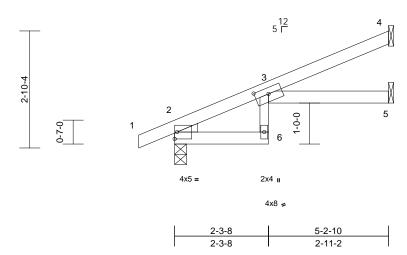
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J5	Jack-Open	1	1	Job Reference (optional)	l63679831

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Scale = 1:28.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.06	3-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.10	3-5	>583	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.07	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.06	3-5	>966	240	Weight: 15 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 6-3:2x3 SPF No.2

WEDGE Left: 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-2-10 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 4= Mechanical, 5=

Mechanical Max Horiz 2=102 (LC 8)

Max Uplift 2=-44 (LC 8), 4=-58 (LC 8), 5=-6

(LC 8)

2=304 (LC 1), 4=135 (LC 1), 5=87 Max Grav

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-138/0, 3-4=-35/44

BOT CHORD 2-6=-3/13, 3-6=-5/68, 3-5=-5/3

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 4, 44 lb uplift at joint 2 and 6 lb uplift at joint 5.

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



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Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J6	Jack-Open	1	1	Job Reference (optional)	163679832

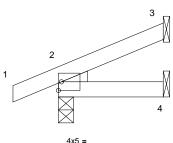
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Page: 1

-0-10-8	2-0-4
0-10-8	2-0-4









2-0-4

Scale = 1:22.2

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	2-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 6 lb	FT = 10%

LUMBER

LOAD CASE(S) Standard

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 Left: 2x3 SPF No.2 WEDGE

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-0-4 oc purlins.

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

bracing.

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

Mechanical Max Horiz 2=48 (LC 8)

Max Uplift 2=-36 (LC 4), 3=-33 (LC 8)

Max Grav 2=173 (LC 1), 3=43 (LC 1), 4=36

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-46/16

BOT CHORD 2-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 3 and 36 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 19,2024



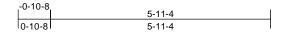
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



ſ	Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
	B240015	J7	Jack-Closed	3	1	Job Reference (optional)	163679833

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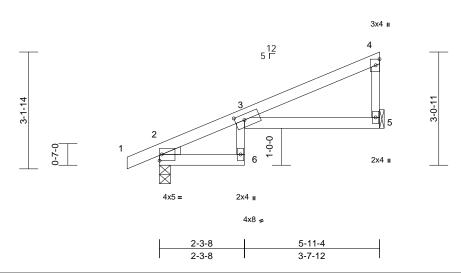


Plate Offsets (X, Y): [3:0-3-0,0-1-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.10	6	>711	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.17	6	>397	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.11	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.10	6	>705	240	Weight: 18 lb	FT = 10%

LUMBER LOAD CASE(S) Standard

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 6-3:2x3 SPF No.2

2x3 SPF No.2 WEBS WEDGE Left: 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8, 5= Mechanical

Max Horiz 2=104 (LC 5)

Max Uplift 2=-58 (LC 8), 5=-61 (LC 8) Max Grav 2=334 (LC 1), 5=250 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-169/0, 3-4=-85/14, 4-5=-166/65

BOT CHORD 2-6=-1/7, 3-6=0/63, 3-5=-22/54

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 5 and 58 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 19,2024



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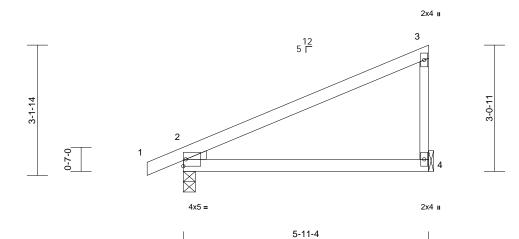
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J8	Jack-Closed	1	1	Job Reference (optional)	163679834

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Scale = 1:27.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.06	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.13	2-4	>544	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 18 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS Left: 2x3 SPF No.2 WEDGE

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals.

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

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

Max Horiz 2=120 (LC 5)

Max Uplift 2=-60 (LC 8), 4=-59 (LC 8)

Max Grav 2=334 (LC 1), 4=250 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-2=0/6, 2-3=-107/66, 3-4=-193/93

TOP CHORD BOT CHORD 2-4=-38/29

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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.
- 4) All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 4 and 60 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



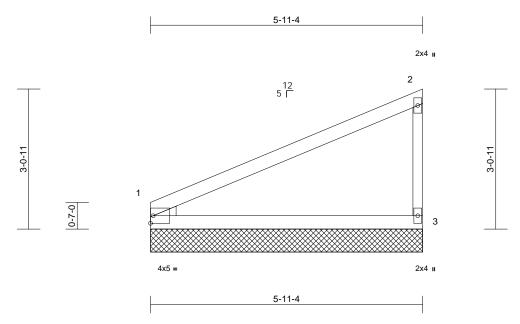
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J9	Jack-Closed	1	1	Job Reference (optional)	163679835

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:20 $ID: Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$ Page: 1



Sca	le =	1:25.
Sca	ie =	1:25.

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.36	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	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS Left: 2x3 SPF No.2 WEDGE

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc **BOT CHORD**

bracing.

REACTIONS (size) 1=5-11-4, 3=5-11-4 Max Horiz 1=118 (LC 5)

Max Uplift 1=-36 (LC 8), 3=-62 (LC 8) Max Grav 1=263 (LC 1), 3=263 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-105/69, 2-3=-204/97

BOT CHORD 1-3=-38/29

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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 SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 3 and 36 lb uplift at joint 1.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



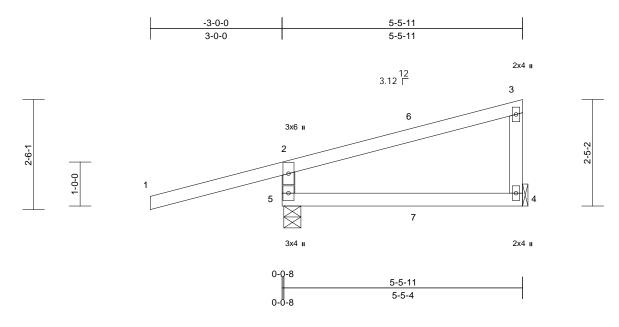
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J10	Diagonal Hip Girder	1	1	Job Reference (optional)	163679836

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S.Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:21 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:26.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.02	4-5	>999	240	Weight: 19 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-5-11 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-4-11

Max Horiz 5=103 (LC 5)

Max Uplift 4=-37 (LC 8), 5=-216 (LC 4) Max Grav 4=147 (LC 1), 5=505 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-445/242, 1-2=0/55, 2-3=-102/19, 3-4=-112/68

BOT CHORD 4-5=-28/68

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 5 and 37 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 94 lb up at 2-11-15, and 78 lb down and 36 lb up at 3-0-9 on top chord, and 10 lb down and 16 lb up at 2-11-15, and 9 lb down and 9 lb up at 3-0-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 4-5=-20

Concentrated Loads (lb)

Vert: 6=26 (B), 7=9 (F)



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Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J11	Jack-Closed	1	1	Job Reference (optional)	163679837

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:21 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

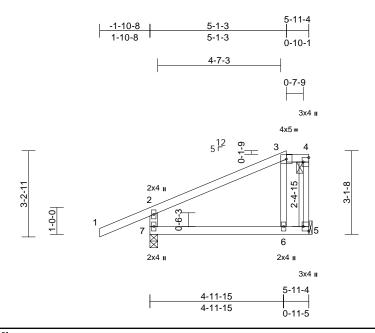


Plate Offsets (X, Y): [4:Edge,0-2-8], [5:Edge,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.03	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.06	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.03	6-7	>999	240	Weight: 21 lb	FT = 10%

LUMBER

WEBS

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

2x3 SPF No.2 *Except* 7-2:2x4 SPF 2400F

BRACING TOP CHORD

Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals, and

2-0-0 oc purlins: 3-4.

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

bracing.

REACTIONS 5= Mechanical, 7=0-3-8 (size)

Max Horiz 7=131 (LC 5)

Max Uplift 5=-43 (LC 5), 7=-89 (LC 8)

Max Grav 5=231 (LC 1), 7=423 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 2-7=-361/119, 1-2=0/54, 2-3=-132/16,

3-4=-62/40, 4-5=-106/1

6-7=-31/41, 5-6=-34/44 BOT CHORD

WEBS 3-6=-82/84

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 7 and 43 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

OF MISSO **ANDREW THOMAS** NUMBER PE-2017018993 SSIONAL .

February 19,2024



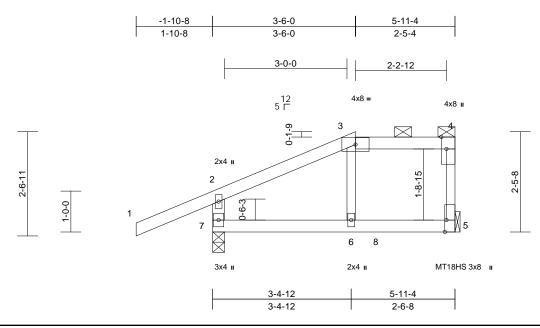
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J12	Jack-Closed Girder	1	1	Job Reference (optional)	163679838

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:21 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:28.2

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.07	6-7	>926		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.54	- (/	-0.07	6-7			MT18HS	197/144
						- (- /		6-7			WILIOUS	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.04	- (- /	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.07	6-7	>944	240	Weight: 20 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 7-2:2x4 SPF No.2 WEBS **BRACING**

TOP CHORD Structural wood sheathing directly applied or

5-11-4 oc purlins, except end verticals, and

2-0-0 oc purlins: 3-4.

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

bracing.

REACTIONS (size) 5= Mechanical, 7=0-3-8

Max Horiz 7=102 (LC 5)

Max Uplift 5=-111 (LC 5), 7=-131 (LC 4)

Max Grav 5=407 (LC 1), 7=525 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 2-7=-403/130, 1-2=0/54, 2-3=-227/52,

3-4=-142/57, 4-5=-196/64 BOT CHORD 6-7=-60/140, 5-6=-61/137

WEBS 3-6=-34/145

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- Provide adequate drainage to prevent water ponding.
- 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 SPF No.2
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 7 and 111 lb uplift at joint 5.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 134 lb down and 53 lb up at $\,$ 3-6-0, and 157 lb down and 50 $\,$ lb up at 4-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1 15

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 5-7=-20

Concentrated Loads (lb)

Vert: 6=-122 (F), 8=-157 (F)



February 19,2024



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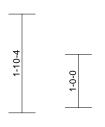


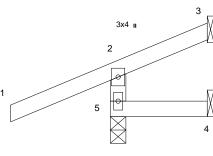
Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J13	Jack-Open	1	1	Job Reference (optional)	163679839

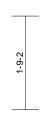
Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:22 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-1-10-8	1-9-13
1-10-8	1-9-13









Page: 1

1-9-13

Scale = 1:21.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-9-13 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8 Max Horiz 5=53 (LC 5)

Max Uplift 3=-14 (LC 8), 4=-7 (LC 1), 5=-87 (LC 4)

Max Grav 3=4 (LC 4), 4=24 (LC 3), 5=302

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-262/96, 1-2=0/54, 2-3=-46/1

BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 5, 7 lb uplift at joint 4 and 14 lb uplift at joint 3.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





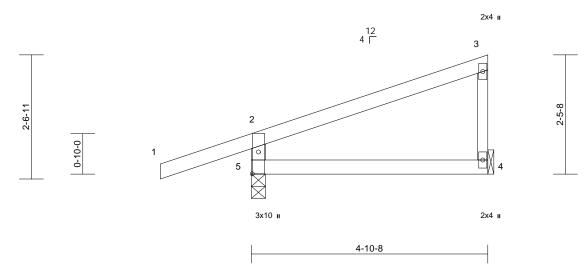
Job Truss Truss Type Qty Ply Lot 195 HT 163679840 B240015 J14 Jack-Closed Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:22 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:23.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.04	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 16 lb	FT = 10%

LOAD CASE(S) Standard

LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-10-8 oc purlins, except end verticals.

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

bracing.

REACTIONS 4= Mechanical, 5=0-3-8 (size)

Max Horiz 5=106 (LC 5)

Max Uplift 4=-38 (LC 8), 5=-134 (LC 4) Max Grav 4=177 (LC 1), 5=380 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension TOP CHORD

2-5=-336/164, 1-2=0/45, 2-3=-98/17,

3-4=-129/60

BOT CHORD 4-5=-25/25

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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.
- 4) All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 5 and 38 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 19,2024



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

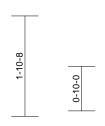
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

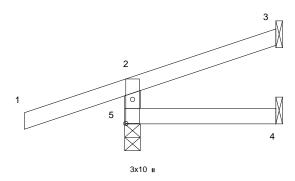


Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J15	Jack-Open	1	1	Job Reference (optional)	163679841

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:22 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1







2-9-14



Scale = 1:21.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 9 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-9-14 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8

Max Horiz 5=62 (LC 4) Max Uplift 3=-31 (LC 8), 5=-124 (LC 4)

3=52 (LC 1), 4=44 (LC 3), 5=314 Max Grav (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-273/139, 1-2=0/45, 2-3=-42/11

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 5 and 31 lb uplift at joint 3.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



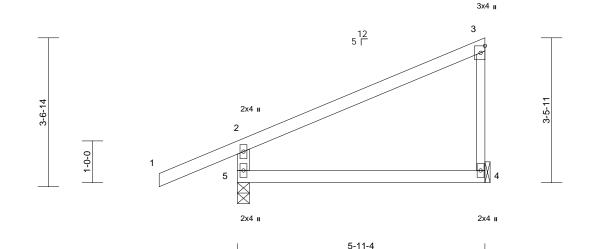


Truss Type Ply Job Truss Qty Lot 195 HT 163679842 B240015 J16 Jack-Closed Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:22 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:27.6

		i	· ·	i								
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.04	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.09	4-5	>773	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	4-5	>999	240	Weight: 19 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 5=0-3-8

Max Horiz 5=150 (LC 5)

Max Uplift 4=-56 (LC 8), 5=-85 (LC 8) Max Grav 4=231 (LC 1), 5=423 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

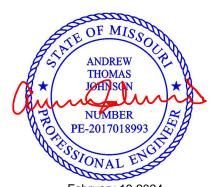
TOP CHORD 2-5=-373/129, 1-2=0/54, 2-3=-138/37, 3-4=-167/81

BOT CHORD 4-5=-41/31

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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.
- 4) All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 5 and 56 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



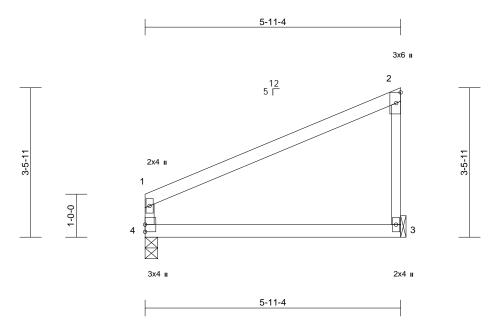
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J17	Jack-Closed	2	1	Job Reference (optional)	163679843

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:23 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.05	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.10	3-4	>707	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	3-4	>999	240	Weight: 17 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 4=133 (LC 5)

Max Uplift 3=-63 (LC 8), 4=-33 (LC 8) Max Grav 3=258 (LC 1), 4=258 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-212/76, 1-2=-139/38, 2-3=-189/89

BOT CHORD 3-4=-41/38

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 4 and 63 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



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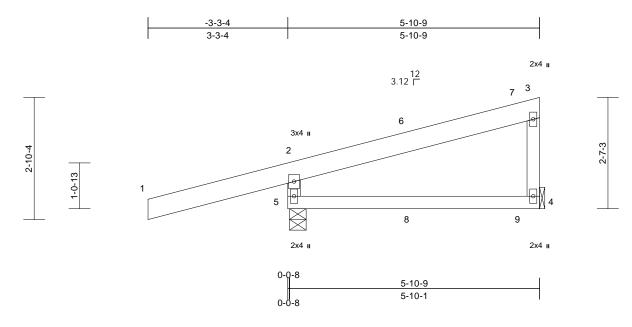
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



ſ	Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
	B240015	J18	Diagonal Hip Girder	2	1	Job Reference (optional)	163679844

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Page: 1



Scale = 1:26.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	0.05	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.04	4-5	>999	240	Weight: 26 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-10-9 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-4-11

Max Horiz 5=109 (LC 5)

Max Uplift 4=-61 (LC 8), 5=-244 (LC 4)

Max Grav 4=222 (LC 15), 5=545 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 2-5=-505/262, 1-2=0/60, 2-3=-121/37, 3-4=-149/87

BOT CHORD 4-5=-26/69

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 244 lb uplift at joint 5 and 61 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 25 lb up at 2-9-5, and 68 lb down and 65 lb up at 2-9-11, and 66 lb down and 49 lb up at 5-4-7 on top chord, and 36 lb down and 110 lb up at 2-9-5, and 10 lb down and 16 lb up at 2-9-11, and 25 lb down at 5-4-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 4-5=-20

Concentrated Loads (lb)

Vert: 7=-22 (F), 8=38 (B), 9=-7 (F)



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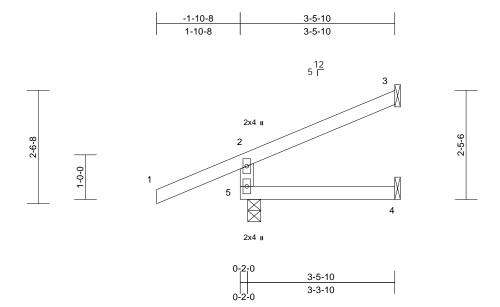
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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J	Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
E	3240015	J19	Jack-Open	2	1	Job Reference (optional)	163679845

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Scale = 1:25.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 11 lb	FT = 10%

LUMBER

LOAD CASE(S) Standard

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-10 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

3= Mechanical, 4= Mechanical,

5=0-3-8

Max Horiz 5=74 (LC 8)

Max Uplift 3=-49 (LC 8), 5=-71 (LC 4)

3=79 (LC 1), 4=58 (LC 3), 5=332 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-290/95, 1-2=0/54, 2-3=-59/22

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 5 and 49 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Page: 1

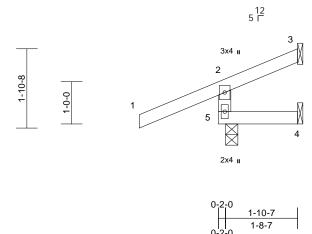


Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J20	Jack-Open	2	1	Job Reference (optional)	163679846

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Scale = 1:27.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-7 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8

Max Horiz 5=53 (LC 5)

Max Uplift 3=-16 (LC 8), 4=-6 (LC 1), 5=-86 (LC 4)

Max Grav 3=5 (LC 19), 4=25 (LC 3), 5=302 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-262/95, 1-2=0/54, 2-3=-46/1

BOT CHORD 4-5=0/0

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 4, 16 lb uplift at joint 3 and 86 lb uplift at joint 5.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

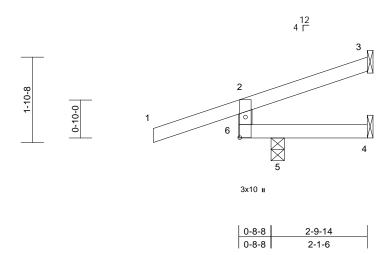


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Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J21	Jack-Open	1	1	Job Reference (optional)	163679847

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:24 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:25.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.01	4-5	>999	240	Weight: 9 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-9-14 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8 Max Horiz 5=62 (LC 4)

Max Uplift 3=-25 (LC 8), 4=-78 (LC 1), 5=-187

(LC 4)

3=25 (LC 1), 4=55 (LC 4), 5=430 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-6=-300/150, 1-2=0/45, 2-3=-50/2

BOT CHORD 5-6=-12/62, 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 3, 78 lb uplift at joint 4 and 187 lb uplift at joint 5.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



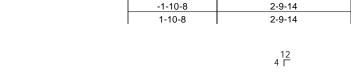


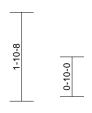


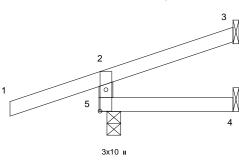
Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J22	Jack-Open	1	1	Job Reference (optional)	163679848

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:24 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1









Scale = 1:24.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 9 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-9-14 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8

Max Horiz 5=62 (LC 4) Max Uplift 3=-31 (LC 8), 5=-124 (LC 4) 3=52 (LC 1), 4=44 (LC 3), 5=314 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-5=-273/139, 1-2=0/45, 2-3=-42/11

TOP CHORD

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 5 and 31 lb uplift at joint 3.

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

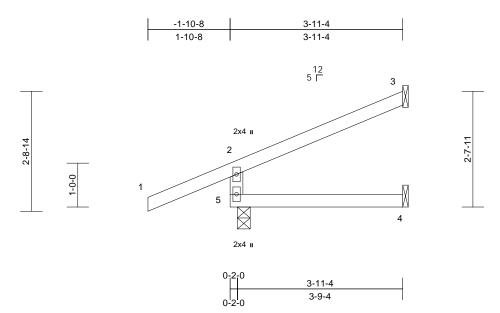


February 19,2024



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J23	Jack-Open	1	1	Job Reference (optional)	163679849

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:24 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:26.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 12 lb	FT = 10%

LUMBER

LOAD CASE(S) Standard

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8

Max Horiz 5=82 (LC 8)

Max Uplift 3=-57 (LC 8), 5=-69 (LC 4) Max Grav

3=98 (LC 1), 4=67 (LC 3), 5=348

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-305/97, 1-2=0/54, 2-3=-66/28

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 5 and 57 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



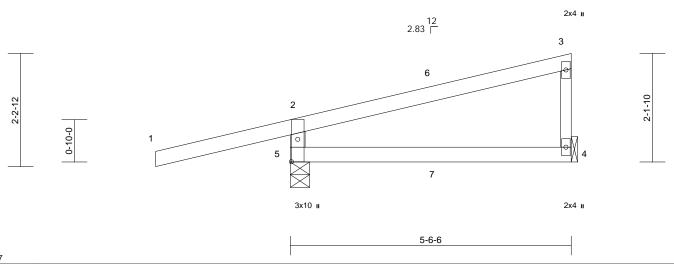
Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J24	Diagonal Hip Girder	1	1	Job Reference (optional)	163679850

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:25 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:22.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.06	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.02	4-5	>999	240	Weight: 18 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-6-6 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 5=0-4-9

Max Horiz 5=88 (LC 5)

Max Uplift 4=-30 (LC 8), 5=-185 (LC 4) Max Grav 4=186 (LC 1), 5=485 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-429/217, 1-2=0/45, 2-3=-113/9,

3-4=-137/62 BOT CHORD 4-5=-18/61

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 5 and 30 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 11 lb up at 2-9-8, and 70 lb down and 11 lb up at 2-9-8 on top chord, and 14 lb down and 16 lb up at 2-9-8, and 14 lb down and 16 lb up at 2-9-8 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 4-5=-20



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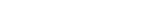
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

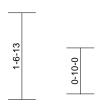


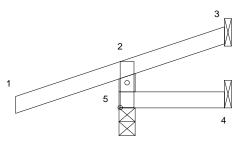
Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J25	Jack-Open	2	1	Job Reference (optional)	163679851

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:25 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f











Page: 1

3x10 ı

1-10-15

Scale = 1:20.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8 Max Horiz 5=51 (LC 4)

Max Uplift 3=-13 (LC 8), 4=-7 (LC 1), 5=-134

(LC 4)

Max Grav 3=5 (LC 18), 4=26 (LC 3), 5=302

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-260/138, 1-2=0/45, 2-3=-37/1

BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 5, 7 lb uplift at joint 4 and 13 lb uplift at joint 3.

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



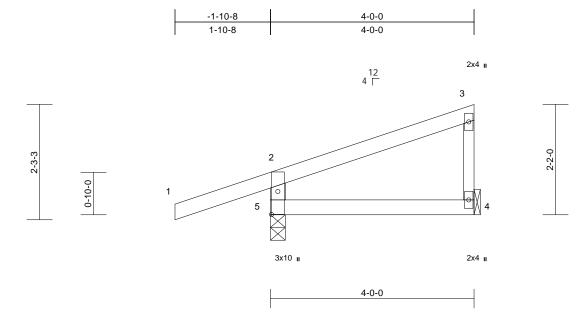
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty Ply Lot 195 HT	Lot 195 HT		
B240015	J26	Jack-Closed	2	1	Job Reference (optional)	163679852

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Scale = 1:22.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 13 lb	FT = 10%

LOAD CASE(S) Standard

LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals. **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 5=0-3-8

Max Horiz 5=93 (LC 5)

Max Uplift 4=-27 (LC 8), 5=-132 (LC 4) Max Grav 4=131 (LC 1), 5=348 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension TOP CHORD

2-5=-308/154, 1-2=0/45, 2-3=-77/10,

3-4=-96/46 4-5=-23/19 BOT CHORD

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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.
- 4) All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 5 and 27 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 19,2024



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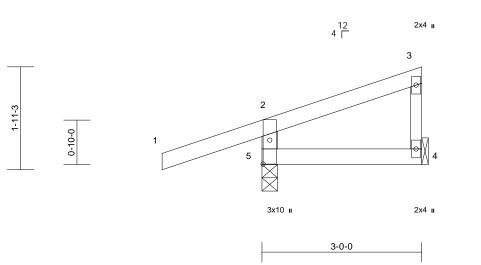
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty Ply Lot 195 HT		Lot 195 HT	
B240015	J27	Jack-Closed	1	1	Job Reference (optional)	163679853

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Scale = 1:21.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 11 lb	FT = 10%

LOAD CASE(S) Standard

LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS

BRACING

Structural wood sheathing directly applied or TOP CHORD 3-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-3-8

Max Horiz 5=78 (LC 5)

Max Uplift 4=-17 (LC 5), 5=-133 (LC 4) Max Grav 4=72 (LC 1), 5=317 (LC 1) (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-5=-279/145, 1-2=0/45, 2-3=-53/14,

3-4=-55/29 BOT CHORD 4-5=-21/21

NOTES

FORCES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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.
- 4) All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 5 and 17 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 19,2024



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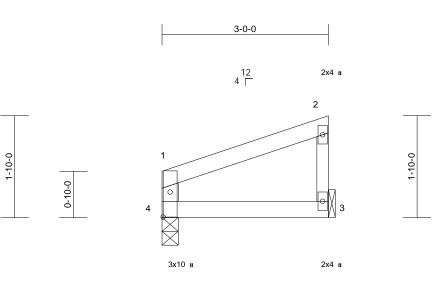
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Truss Type Ply Job Truss Qty Lot 195 HT 163679854 B240015 J28 Jack-Closed Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:26 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:20.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	0.00	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	3-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	3-4	>999	240	Weight: 9 lb	FT = 10%

3-0-0

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 2-3:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals. **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 4=63 (LC 5)

Max Uplift 3=-28 (LC 8), 4=-19 (LC 4) Max Grav 3=124 (LC 1), 4=124 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-102/39, 1-2=-58/11, 2-3=-91/40

BOT CHORD 3-4=-21/18

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 4 and 28 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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February 19,2024



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

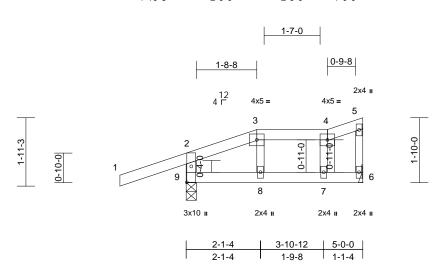
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J29	Jack-Closed Girder	1	1	Job Reference (optional)	163679855

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:26 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:32.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.01	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	7-8	>999	240	Weight: 17 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 9-2:2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-0 oc purlins, except end verticals, and

2-0-0 oc purlins: 3-4.

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

bracing.

REACTIONS (size) 6= Mechanical, 9=0-3-8

Max Horiz 9=78 (LC 5)

Max Uplift 6=-52 (LC 8), 9=-165 (LC 4)

Max Grav 6=170 (LC 1), 9=364 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension TOP CHORD 2-9=-301/156, 1-2=0/45, 2-3=-112/29,

3-4=-67/27, 4-5=-57/28, 5-6=-83/34

BOT CHORD 8-9=-35/55, 7-8=-32/55, 6-7=-33/55

WEBS 3-8=-10/41, 4-7=-77/55

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 9 and 52 lb uplift at joint 6.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 59 lb down and 126 lb up at 2-0-0 on top chord, and 29 lb down and 60 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 6-9=-20 Concentrated Loads (lb)

Vert: 3=35 (B)



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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



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J30	Jack-Closed	1	1	Job Reference (optional)	163679856

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:26 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

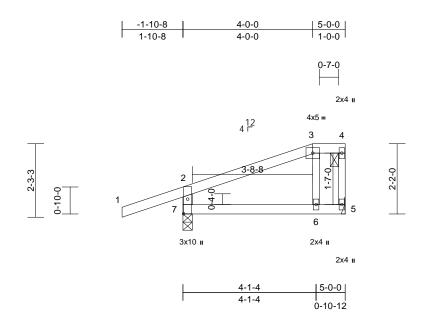


Plate Offsets (X, Y): [7:0-5-6,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.01	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.03	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	6-7	>999	240	Weight: 17 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 7-2:2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.

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

bracing.

REACTIONS (size) 5= Mechanical, 7=0-3-8

Max Horiz 7=95 (LC 7)

Max Uplift 5=-32 (LC 5), 7=-137 (LC 4) Max Grav 5=184 (LC 1), 7=385 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-326/156, 1-2=0/45, 2-3=-101/12,

3-4=-46/25, 4-5=-71/7 6-7=-26/42, 5-6=-23/38 BOT CHORD

WEBS 3-6=-76/62

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 7 and 32 lb uplift at joint 5.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



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Job Truss Truss Type Qty Ply Lot 195 HT 163679857 B240015 J31 Jack-Closed Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:27 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



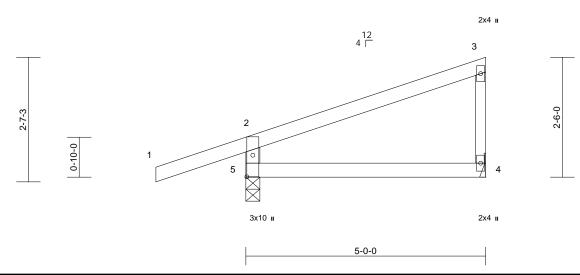


Plate Offsets (X, Y): [5:0-5-6,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.04	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 16 lb	FT = 10%

LOAD CASE(S) Standard

LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-3-8

Max Horiz 5=107 (LC 5)

Max Uplift 4=-40 (LC 8), 5=-134 (LC 4) Max Grav 4=184 (LC 1), 5=385 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension TOP CHORD

2-5=-340/166, 1-2=0/45, 2-3=-101/17,

3-4=-134/62 **BOT CHORD** 4-5=-25/27

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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.
- 4) All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 5 and 40 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



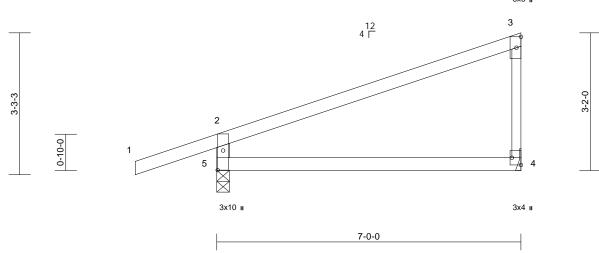
February 19,2024



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J32	Jack-Closed	6	1	Job Reference (optional)	163679858

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:27 $ID: Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$ Page: 1





Scale = 1:26.5

Plate Offsets (X, Y): [4:Edge,0-2-8], [5:0-5-6,0-1-8]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.08	4-5	>985	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.17	4-5	>472	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.03	4-5	>999	240	Weight: 21 lb	FT = 10%

LOAD CASE(S) Standard

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

2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS

BRACING

LUMBER

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) 4= Mechanical, 5=0-3-8

Max Horiz 5=137 (LC 5)

Max Uplift 4=-62 (LC 8), 5=-144 (LC 4) Max Grav 4=283 (LC 1), 5=466 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-412/192, 1-2=0/45, 2-3=-149/14,

3-4=-202/92 BOT CHORD 4-5=-33/54

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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.
- 4) All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 5 and 62 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 19,2024



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Job	b	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B2	240015	J33	Diagonal Hip Girder	1	1	Job Reference (optional)	163679859

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:27 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

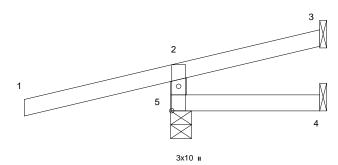
-2-7-13 2-8-7 2-8-7



2.83

2-8-7







Page: 1

Scale = 1:20.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.01	4-5	>999	240	Weight: 10 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

Max Horiz 5=51 (LC 7)

Max Uplift 3=-42 (LC 17), 4=-26 (LC 1),

5=-158 (LC 4)

Max Grav 3=23 (LC 4), 4=28 (LC 4), 5=276

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-232/141, 1-2=-7/34, 2-3=-22/5

BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 158 lb uplift at joint 5, 42 lb uplift at joint 3 and 26 lb uplift at joint 4.

- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 46 lb down and 16 lb up at -2-7-13, and 46 lb down and 16 lb up at -2-7-13 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Concentrated Loads (lb)

Vert: 1=-71 (F=-36, B=-36) Trapezoidal Loads (lb/ft)

Vert: 1=0 (F=35, B=35)-to-2=-49 (F=11, B=11), 2=-5 (F=33, B=33)-to-3=-49 (F=10, B=10), 5=0 (F=10,

B=10)-to-4=-14 (F=3, B=3)



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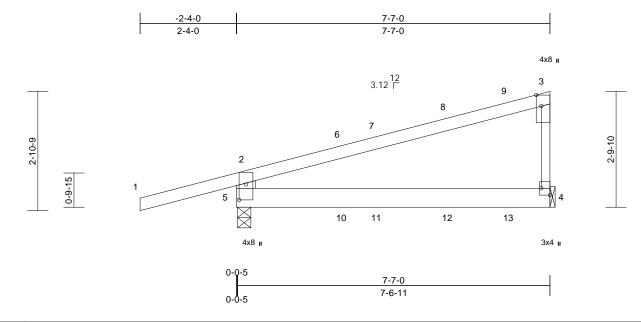
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J34	Diagonal Hip Girder	1	1	Job Reference (optional)	163679860

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:28 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:27.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.04	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.08	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	4-5	>999	240	Weight: 27 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x6 SPF No.2

2x6 SPF No.2 *Except* 3-4:2x3 SPF 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)

4= Mechanical, 5=0-3-14

Max Horiz 5=115 (LC 5)

Max Uplift 4=-91 (LC 8), 5=-191 (LC 4) Max Grav 4=378 (LC 1), 5=551 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension 2-5=-501/250, 1-2=0/45, 2-3=-184/28, TOP CHORD

3-4=-261/131

BOT CHORD 4-5=-46/83

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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.
- 4) All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 5 and 91 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 38 lb up at 2-6-8, 77 lb down and 29 lb up at 3-4-9, and 89 lb down and 71 lb up at 5-1-4, and 101 lb down and 71 lb up at 6-6-15 on top chord, and 4 lb down at 2-6-8, 10 lb down and 11 lb up at 3-4-9, and 20 lb down at 5-1-4, and 39 lb down at 6-6-15 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 4-5=-20

Concentrated Loads (lb)

Vert: 8=-23 (F), 9=-52 (B), 11=11 (B), 12=-10 (F),

13=-24 (B)



February 19,2024



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Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J35	Jack-Open	10	1	Job Reference (optional)	163679861

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:28 $ID: Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$ Page: 1

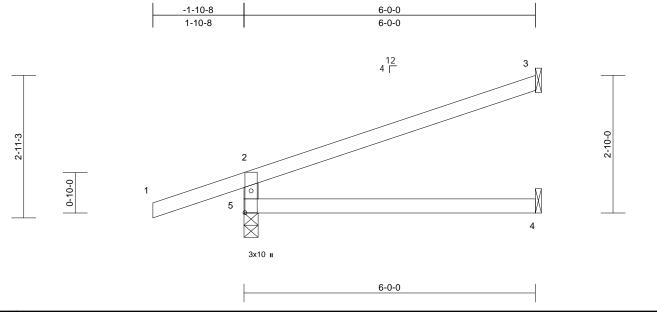


Plate Offsets (X, Y): [5:0-5-6,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.11	4-5	>632	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.04	4-5	>999	240	Weight: 17 lb	FT = 10%

LUMBER

Scale = 1:23.7

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF 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) 3= Mechanical, 4= Mechanical,

Max Horiz 5=106 (LC 4)

Max Uplift 3=-82 (LC 8), 5=-127 (LC 4) 3=173 (LC 1), 4=107 (LC 3), 5=427 Max Grav

(LC 1) **FORCES**

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-374/174, 1-2=0/45, 2-3=-79/42

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 5 and 82 lb uplift at joint 3.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



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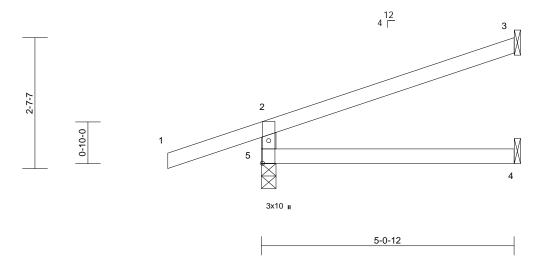
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J36	Jack-Open	1	1	Job Reference (optional)	163679862

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:28 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:23.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	4-5	>999	240	Weight: 15 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-12 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8 Max Horiz 5=93 (LC 4)

Max Uplift 3=-68 (LC 8), 5=-124 (LC 4) 3=140 (LC 1), 4=89 (LC 3), 5=389 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-341/162, 1-2=0/45, 2-3=-67/33

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 5 and 68 lb uplift at joint 3.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



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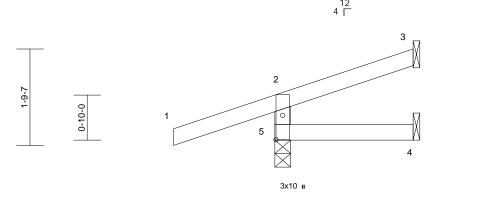
Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J37	Jack-Open	2	1	Job Reference (optional)	163679863

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2-6-12

Page: 1





Scale = 1:21.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 9 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-6-12 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8 Max Horiz 5=59 (LC 4)

Max Uplift 3=-26 (LC 8), 5=-126 (LC 4) 3=39 (LC 1), 4=38 (LC 3), 5=308 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-267/137, 1-2=0/45, 2-3=-40/7

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 5 and 26 lb uplift at joint 3.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



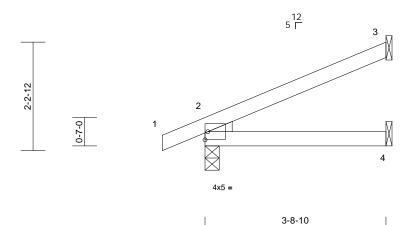
February 19,2024



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J38	Jack-Open	1	1	Job Reference (optional)	163679864

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Scale = 1:23.7

					-							
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.01	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	2-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 10%

LUMBER

LOAD CASE(S) Standard

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 Left: 2x3 SPF No.2 WEDGE

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-8-10 oc purlins.

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

bracing.

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

Mechanical Max Horiz 2=77 (LC 8)

Max Uplift 2=-37 (LC 8), 3=-66 (LC 8)

Max Grav 2=240 (LC 1), 3=113 (LC 1), 4=70

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-70/40

BOT CHORD 2-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 3 and 37 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 19,2024

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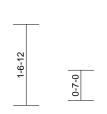
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

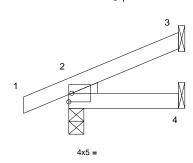


Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J39	Jack-Open	1	1	Job Reference (optional)	163679865

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-0-10-8	2-1-7
0-10-8	2-1-7





2-1-7



Scale = 1:22.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	2-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 7 lb	FT = 10%

LOAD CASE(S) Standard

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 Left: 2x3 SPF No.2 WEDGE

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-1-7 oc purlins.

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

bracing.

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

Mechanical Max Horiz 2=49 (LC 8)

Max Uplift 2=-35 (LC 4), 3=-35 (LC 8)

Max Grav 2=177 (LC 1), 3=48 (LC 1), 4=38

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

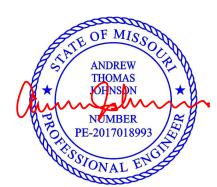
TOP CHORD 1-2=0/6, 2-3=-47/18

BOT CHORD 2-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 3 and 35 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 19,2024



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Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J40	Jack-Closed Girder	2	1	Job Reference (optional)	163679866

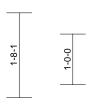
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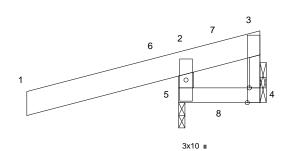
-3-0-0 3-0-0 1-7-4

12 3.12 □

MT18HS 3x16 II

Page: 1





Scale = 1:22.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	4-5	>999	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	5	>999	240	Weight: 14 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E **BOT CHORD** 2x4 SPF 2400F 2.0E

2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-3-5 oc purlins, except end verticals.

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

bracing.

REACTIONS 4= Mechanical, 5=0-1-8 (size)

Max Horiz 5=69 (LC 7)

Max Uplift 4=-816 (LC 21), 5=-294 (LC 4)

Max Grav 4=138 (LC 4), 5=1315 (LC 21) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 2-5=-1247/298, 1-2=0/111, 2-3=-129/33,

3-4=-126/761

BOT CHORD 4-5=-77/20

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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.
- Bearings are assumed to be: Joint 4 SPF No.2, Joint 4 SPF No.2, Joint 5 SPF 2400F 2.0E.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 294 lb uplift at joint 5 and 816 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 21 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

21) User defined (1): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-6=-70 (F), 2-6=-20 (F), 2-7=-70 (F), 5-8=-20

Concentrated Loads (lb)

Vert: 1=-250



February 19,2024



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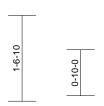


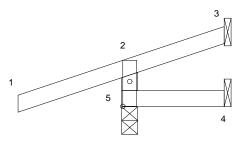
Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J41	Jack-Open	2	1	Job Reference (optional)	163679867

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12 4 |







3x10 II

1-10-4

Scale = 1:20.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

LUMBER

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

BRACING

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-8

Max Horiz 5=50 (LC 4)

Max Uplift 3=-11 (LC 8), 4=-8 (LC 1), 5=-135

(LC 4)

Max Grav 3=4 (LC 4), 4=24 (LC 3), 5=302

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-260/138, 1-2=0/45, 2-3=-37/1

BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 5, 8 lb uplift at joint 4 and 11 lb uplift at joint 3.

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



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Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J42	Jack-Closed Girder	1	1	Job Reference (optional)	163679868

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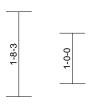
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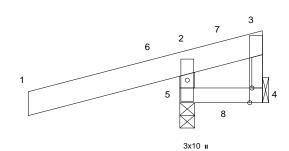


3.12 ☐

MT18HS 3x16 II

Page: 1





1-7-9

Scale = 1:22.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	0.00	4-5	>999	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	5	>999	240	Weight: 14 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E BOT CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-3-10 oc purlins, except end verticals.

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

bracing.

REACTIONS 4= Mechanical, 5=0-3-8 (size)

Max Horiz 5=70 (LC 7)

Max Uplift 4=-795 (LC 21), 5=-291 (LC 4)

Max Grav 4=135 (LC 4), 5=1296 (LC 21) (lb) - Maximum Compression/Maximum

FORCES Tension TOP CHORD

2-5=-1233/296, 1-2=0/110, 2-3=-127/32,

3-4=-123/746

BOT CHORD 4-5=-76/20

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 291 lb uplift at joint 5 and 795 lb uplift at joint 4.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 21 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

21) User defined (1): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-6=-70 (F), 2-6=-20 (F), 2-7=-70 (F), 5-8=-20

Concentrated Loads (lb)

Vert: 1=-250



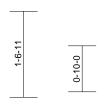
February 19,2024

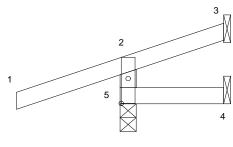
Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J43	Jack-Open	1	1	Job Reference (optional)	163679869

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:30 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1











3x10 II

1-10-8

Scale = 1:20.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

LUMBER

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

BRACING

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8 Max Horiz 5=50 (LC 4)

Max Uplift 3=-12 (LC 8), 4=-8 (LC 1), 5=-135

(LC 4)

Max Grav 3=4 (LC 19), 4=25 (LC 3), 5=302

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-260/138, 1-2=0/45, 2-3=-37/1

BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 5, 8 lb uplift at joint 4 and 12 lb uplift at joint 3.

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



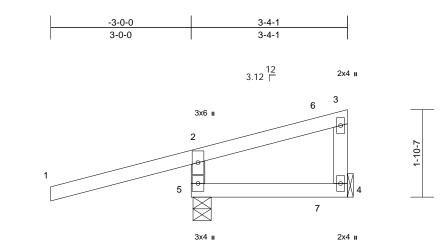
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



ſ	Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
	B240015	J44	Diagonal Hip Girder	1	1	Job Reference (optional)	163679870

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S.Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:31 ID:hG9UfxbQqQ0AJQsMrfMZY5zJc9I-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



3-4-1 3-3-10

Scale = 1:24.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 13 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-4-1 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 5=0-4-11

Max Horiz 5=93 (LC 7)

Max Uplift 4=-13 (LC 9), 5=-221 (LC 4)

Max Grav 4=94 (LC 21), 5=469 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-411/225, 1-2=0/55, 2-3=-41/45, 3-4=-48/27

BOT CHORD 4-5=-44/55

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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.
- 4) All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 5 and 13 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 54 lb down and 28 lb up at 2-8-7 on top chord, and 14 lb down and 11 lb up at 2-8-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 4-5=-20

Concentrated Loads (lb)

Vert: 7=11 (F)



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February 19,2024



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

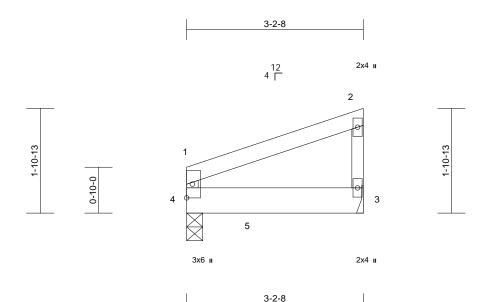
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Ply Job Truss Truss Type Qty Lot 195 HT 163679871 B240015 J45 Jack-Closed Girder Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:31 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1	:20.9
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.01	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.01	3-4	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	3-4	>999	240	Weight: 11 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x6 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-8 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 4=63 (LC 5)

Max Uplift 3=-36 (LC 8), 4=-32 (LC 4) Max Grav 3=251 (LC 1), 4=366 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-112/43, 1-2=-70/10, 2-3=-98/44

BOT CHORD 3-4=-21/36

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 4 and 36 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 347 lb down and 17 lb up at 1-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-70, 3-4=-20

Concentrated Loads (lb) Vert: 5=-347 (F)



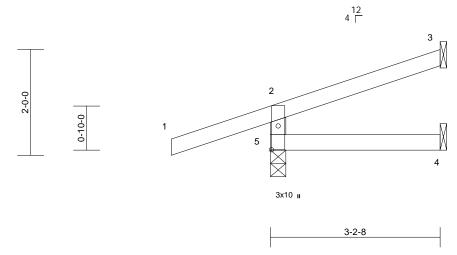
February 19,2024



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J46	Jack-Open	5	1	Job Reference (optional)	163679872

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Scale = 1:21.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 10 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-8 oc purlins, except end verticals. **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

Max Horiz 5=49 (LC 4) Max Uplift 3=-23 (LC 8), 5=-76 (LC 4)

3=69 (LC 1), 4=52 (LC 3), 5=324 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-283/94, 1-2=0/45, 2-3=-45/15

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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 SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 5 and 23 lb uplift at joint 3.

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



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



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J47	Jack-Closed Girder	2	1	Job Reference (optional)	163679873

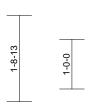
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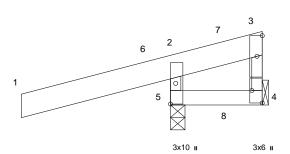
3x10 II

-3-0-0 1-10-2

3-0-0 1-10-2

3.12 ☐







Page: 1

1-10-2

Scale = 1:23.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 15 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-6-3 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS 4= Mechanical, 5=0-3-8 (size)

Max Horiz 5=72 (LC 7)

Max Uplift 4=-650 (LC 21), 5=-265 (LC 4) Max Grav 4=106 (LC 4), 5=1177 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-1139/277, 1-2=0/111, 2-3=-117/32,

3-4=-98/631

BOT CHORD 4-5=-61/15

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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.
- 4) All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 265 lb uplift at joint 5 and 650 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- Load case(s) 21 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

21) User defined (1): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-6=-70 (F), 2-6=-20 (F), 2-7=-70 (F), 5-8=-20

Concentrated Loads (lb)

Vert: 1=-250



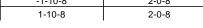
February 19,2024

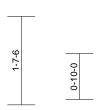


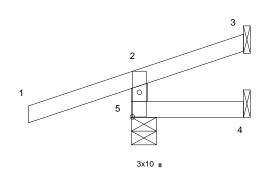
Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	J48	Jack-Open	4	1	Job Reference (optional)	163679874

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Page: 1

2-0-8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-0-8 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-5-8 Max Horiz 5=52 (LC 4)

Max Uplift 3=-15 (LC 8), 4=-5 (LC 1), 5=-133

(LC 4)

3=10 (LC 1), 4=27 (LC 3), 5=302 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-260/137, 1-2=0/45, 2-3=-38/1

BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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 SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 5, 15 lb uplift at joint 3 and 5 lb uplift at joint 4.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



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

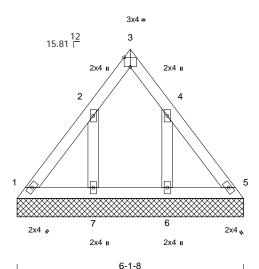


Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	LAY1	GABLE	1	1	Job Reference (optional)	163679875

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:32 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







Scale = 1:31.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 **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 1=6-1-8, 5=6-1-8, 6=6-1-8, 7=6-1-8 (size)

Max Horiz 1=-103 (LC 4)

Max Uplift 1=-13 (LC 6), 5=-12 (LC 7), 6=-148

(LC 9), 7=-149 (LC 8)

1=118 (LC 17), 5=117 (LC 18), Max Grav

6=207 (LC 16), 7=209 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-158/86, 2-3=-63/14, 3-4=-63/13,

4-5=-157/85

BOT CHORD 1-7=-57/132, 6-7=-57/132, 5-6=-57/132

WEBS 2-7=-167/174, 4-6=-166/173

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 0-0-0 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 SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1, 12 lb uplift at joint 5, 149 lb uplift at joint 7 and 148 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



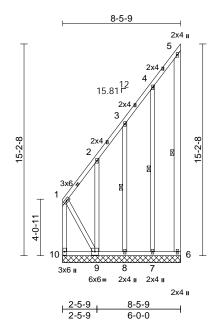
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February 19,2024



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	LAY2	Lay-In Gable	1	1	Job Reference (optional)	163679876

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:33 ID:LfsW?wweLsvcCuot68sTI1zJb1t-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:82.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 101 lb	FT = 20%

LUMBER

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

2x4 SPF No.2 *Except* 5-6:2x6 SP 2400F WEBS

2.0E

OTHERS 2x4 SPF No.2

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, Except:

8-0-2 oc bracing: 9-10.

WEBS 5-6, 4-7, 3-8 1 Row at midpt

REACTIONS (size) 6=8-5-9, 7=8-5-9, 8=8-5-9, 9=8-5-9,

10=8-5-9 Max Horiz 10=569 (LC 5)

Max Uplift 6=-264 (LC 7), 7=-177 (LC 8),

8=-172 (LC 8), 9=-767 (LC 5),

10=-763 (LC 6)

Max Grav 6=232 (LC 4), 7=235 (LC 15),

8=214 (LC 15), 9=724 (LC 6),

10=1119 (LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension

1-10=-1108/782, 1-2=-561/404,

2-3=-471/323, 3-4=-425/301, 4-5=-374/271,

5-6=-224/277

9-10=-550/402, 8-9=-206/156, 7-8=-206/156,

6-7=-206/156 WEBS

4-7=-192/202. 3-8=-177/194. 2-9=-226/242.

1-9=-598/790

NOTES

TOP CHORD

BOT CHORD

Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; 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

- 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 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 SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 763 lb uplift at joint 10, 264 lb uplift at joint 6, 177 lb uplift at joint 7, 172 lb uplift at joint 8 and 767 lb uplift at joint 9.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Page: 1

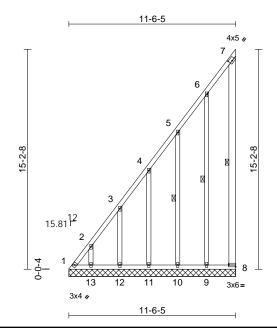
February 19,2024



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	LAY3	Lay-In Gable	1	1	Job Reference (optional)	163679877

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:33 ID:DL_Ka18VQCrhX2vaNijTiXzJb2t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:79.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 99 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x6 SPF No.2 WEBS 2x4 SPF No.2 OTHERS

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. WFBS

1 Row at midpt 7-8, 6-9, 5-10

Max Grav

REACTIONS (size)

1=11-6-5, 8=11-6-5, 9=11-6-5, 10=11-6-5, 11=11-6-5, 12=11-6-5,

13=11-6-5

Max Horiz 1=574 (LC 5)

Max Uplift 1=-382 (LC 6), 8=-305 (LC 7), 9=-209 (LC 8), 10=-163 (LC 8),

11=-180 (LC 8), 12=-177 (LC 8),

13=-159 (LC 8) 1=578 (LC 5), 8=265 (LC 4), 9=207

(LC 15), 10=234 (LC 15), 11=221 (LC 15), 12=231 (LC 15), 13=203

(LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-725/519 2-3=-644/459 3-4=-543/382 4-5=-463/316, 5-6=-437/310, 6-7=-259/186,

7-8=-117/136

BOT CHORD 1-13=-210/160, 12-13=-210/160,

11-12=-210/160, 10-11=-210/160, 9-10=-210/160, 8-9=-210/160

WEBS 6-9=-225/195, 5-10=-180/223

4-11=-185/194, 3-12=-190/205,

2-13=-163/172

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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.
- 5) 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 SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 382 lb uplift at joint 1, 305 lb uplift at joint 8, 209 lb uplift at joint 9, 163 lb uplift at joint 10, 180 lb uplift at joint 11, 177 lb uplift at joint 12 and 159 lb uplift at joint 13.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



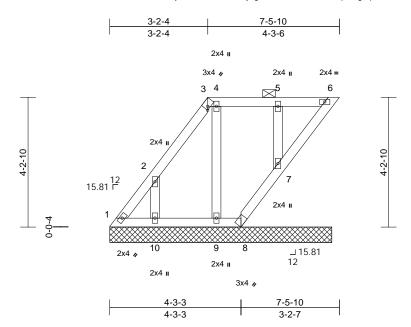
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	LAY4	Lay-In Gable	2	1	Job Reference (optional)	163679878

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:33 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:37.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 OTHERS

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 3-6. Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 6-7.

REACTIONS (size) 1=7-2-11, 6=7-2-11, 7=7-2-11,

8=7-2-11, 9=7-2-11, 10=7-2-11 Max Horiz 1=160 (LC 8)

Max Uplift 1=-28 (LC 6), 6=-51 (LC 8), 7=-44 (LC 4), 8=-24 (LC 15), 9=-24 (LC

5), 10=-165 (LC 8)

1=128 (LC 8), 6=72 (LC 1), 7=194 Max Grav

(LC 22), 8=60 (LC 8), 9=152 (LC

1), 10=210 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-170/74, 2-3=-75/12, 3-4=-23/39,

TOP CHORD 4-5=-23/39, 5-6=-23/39

1-10=-39/23, 9-10=-39/23, 8-9=-39/23,

BOT CHORD 7-8=-70/53, 6-7=-75/46

WEBS 5-7=-156/67, 4-9=-117/45, 2-10=-173/187

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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

- 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.
- All plates are 2x4 MT20 unless otherwise indicated. 5)
- Gable studs spaced at 2-0-0 oc. 6)
- This truss has been designed for a 10.0 psf bottom 7) chord live load nonconcurrent with any other live loads.
- * 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 SPF No.2
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 1, 51 lb uplift at joint 6, 24 lb uplift at joint 8, 44 lb uplift at joint 7, 24 lb uplift at joint 9 and 165 lb uplift at joint 10.
- 11) Non Standard bearing condition. Review required.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) 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



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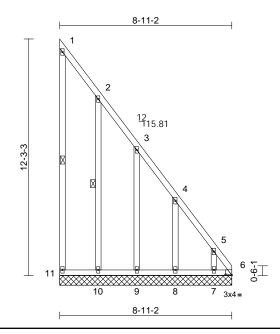
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	LAY5	Lay-In Gable	1	1	Job Reference (optional)	163679879

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:34 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:59.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 64 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x4 SPF No.2 OTHERS

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.

WFBS 1 Row at midpt 1-11, 2-10

6=8-11-2, 7=8-11-2, 8=8-11-2, REACTIONS (size) 9=8-11-2, 10=8-11-2, 11=8-11-2

Max Horiz 11=-477 (LC 9)

Max Uplift 6=-268 (LC 7), 7=-205 (LC 9), 8=-181 (LC 9), 9=-173 (LC 9),

10=-186 (LC 9), 11=-65 (LC 9)

Max Grav 6=663 (LC 9), 7=208 (LC 16),

8=233 (LC 16), 9=222 (LC 16),

10=240 (LC 16), 11=83 (LC 16)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-11=-68/74, 1-2=-86/46, 2-3=-264/126,

3-4=-440/196, 4-5=-624/274, 5-6=-814/352 10-11=-199/477, 9-10=-199/477.

BOT CHORD 8-9=-199/477, 7-8=-199/477, 6-7=-199/477

2-10=-197/212, 3-9=-183/197, 4-8=-191/206,

5-7=-174/225

NOTES

WFBS

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 5) 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 SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 11, 268 lb uplift at joint 6, 186 lb uplift at joint 10, 173 lb uplift at joint 9, 181 lb uplift at joint 8 and 205 lb uplift at
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



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

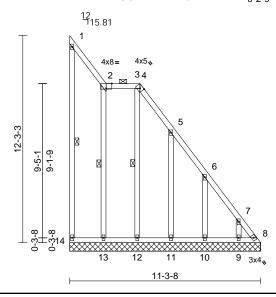
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	LAY6	Lay-In Gable	1	1	Job Reference (optional)	163679880

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:34 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:68.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 79 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 WEBS 2x4 SPF No.2 OTHERS

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.): 2-4.

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

bracing.

WFBS 1 Row at midpt 1-14, 2-13, 3-12

REACTIONS (size)

8=11-3-8, 9=11-3-8, 10=11-3-8, 11=11-3-8, 12=11-3-8, 13=11-3-8,

14=11-3-8 Max Horiz 14=-477 (LC 9)

Max Uplift 8=-243 (LC 7), 9=-152 (LC 9),

10=-173 (LC 9), 11=-192 (LC 9), 12=-227 (LC 9), 14=-82 (LC 9)

Max Grav 8=606 (LC 9), 9=194 (LC 16),

10=229 (LC 16), 11=233 (LC 16), 12=196 (LC 16), 13=182 (LC 1),

14=101 (LC 16)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-14=-85/89. 1-2=-92/58. 2-3=-105/45.

3-4=-104/45, 4-5=-251/112, 5-6=-444/201,

6-7=-621/276, 7-8=-763/333

13-14=-201/476, 12-13=-201/476,

BOT CHORD 11-12=-201/476, 10-11=-201/476,

9-10=-201/476, 8-9=-201/476

WEBS 2-13=-140/18, 3-12=-156/250, 5-11=-194/216, 6-10=-188/199, 7-9=-157/165 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Provide adequate drainage to prevent water ponding. 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 SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 14, 243 lb uplift at joint 8, 227 lb uplift at joint 12, 192 lb uplift at joint 11, 173 lb uplift at joint 10 and 152 lb uplift at joint 9.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) 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



Page: 1

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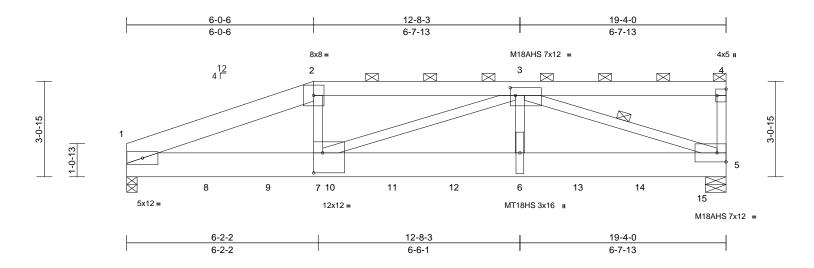


NOTES



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	R1	Half Hip Girder	1	2	Job Reference (optional)	163679881

Run: 8.73 S. Feb. 6.2024 Print: 8.730 S. Feb. 6.2024 MiTek Industries. Inc. Fri Feb. 16.08:46:35 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:37.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.21	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.37	6-7	>625	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.07	5	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.13	6-7	>999	240	Weight: 282 lb	FT = 20%

LUMBER

2x8 SP 2400F 2.0E *Except* 2-4:2x6 SPF TOP CHORD

No.2

BOT CHORD 2x10 SP 2400F 2.0E

2x4 SPF No.2 *Except* 7-3,5-3:2x4 SPF **WEBS** 2400F 2.0E

BRACING

TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins. except end verticals, and 2-0-0 oc purlins (2-6-14 max.): 2-4.

3-5

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

bracing. WFBS 1 Row at midpt

REACTIONS (size) 1=0-4-0, 5=0-8-0

Max Horiz 1=83 (LC 20)

Max Uplift 1=-868 (LC 4), 5=-68 (LC 4) Max Grav 1=8504 (LC 1), 5=9733 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-17162/1602, 2-3=-16190/1539,

3-4=-307/24, 4-5=-286/46

BOT CHORD 1-7=-1487/15833, 6-7=-958/16813,

5-6=-958/16813

WEBS 2-7=-500/5909, 3-7=-668/0, 3-6=-39/6212,

3-5=-17651/1015

NOTES

TOP CHORD

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

Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x10 - 2 rows

staggered at 0-8-0 oc.

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

- All loads are considered equally applied to all plies except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 2400F 2.0E .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 868 lb uplift at joint 1 and 68 lb uplift at joint 5.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 355 lb down and 11 lb up at 0-10-8, 1109 lb down and 230 lb up at 3-3-4, 754 lb down and 174 lb up at 3-3-4, 965 lb down and 62 lb up at 5-3-4, 754 lb down and 86 lb up at 5-3-4, 967 lb down and 62 lb up at 7-3-4, 754 lb down and 101 lb up at 7-3-4, 1055 lb down and 183 lb up at 9-3-4, 754 lb down and 101 lb up at 9-3-4, 1055 lb down and 155 lb up at 11-3-4, 754 lb down and 101 lb up at 11-3-4, 1055 lb down and 15 lb up at 13-3-4, 754 lb down and 101 lb up at 13-3-4, 1055 lb down at 15-3-4. 754 lb down and 101 lb up at 15-3-4, 1055 lb down at 17-3-4, 754 lb down and 101 lb up at 17-3-4, and 758 lb down and 99 lb up at 19-3-4, and 1190 lb down at 19-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-70, 2-4=-70, 1-5=-20

Concentrated Loads (lb)



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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



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	R1	Half Hip Girder	1	2	Job Reference (optional)	163679881

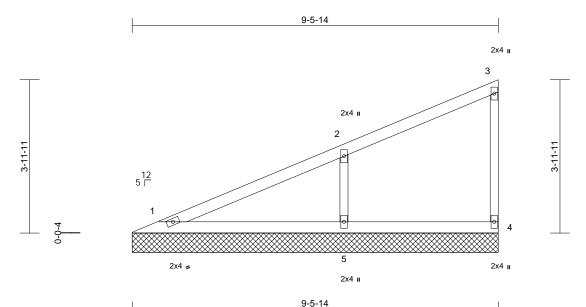
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Vert: 1=-355 (B), 6=-1810 (F=-754, B=-1055), 8=-1863 (F=-754, B=-1109), 9=-1719 (F=-754, B=-965), 10=-1721 (F=-754, B=-967), 11=-1809 (F=-754, B=-1055), 12=-1810 (F=-754, B=-1055), 13=-1810 (F=-754, B=-1055), 14=-1810 (F=-754, B=-1055), 15=-1817 (F=-758, B=-1059)



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	V1	Valley	1	1	Job Reference (optional)	163679882

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Scal	<u> </u>	1.0	og c

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 26 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS 2x3 SPF No.2 OTHERS

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) 1=9-5-14, 4=9-5-14, 5=9-5-14

Max Horiz 1=158 (LC 5)

Max Uplift 4=-23 (LC 5), 5=-129 (LC 8) Max Grav 1=172 (LC 1), 4=122 (LC 1), 5=487

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-123/71, 2-3=-106/29, 3-4=-96/39

BOT CHORD 1-5=-51/39. 4-5=-51/39

2-5=-370/182 WFBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 4 and 129 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



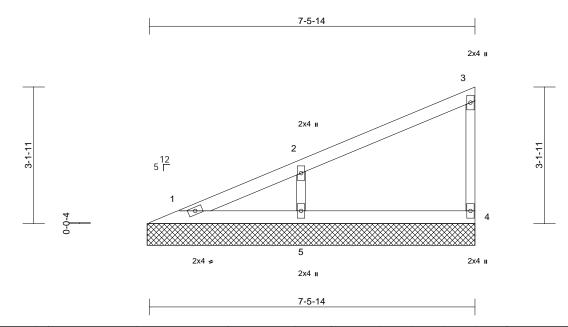
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	V2	Valley	1	1	Job Reference (optional)	163679883

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Coolo		1:26.5
Scale	=	1:26.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS 2x3 SPF No.2 OTHERS

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) 1=7-6-8, 4=7-6-8, 5=7-6-8

Max Horiz 1=122 (LC 5) Max Uplift 4=-26 (LC 8), 5=-102 (LC 8)

Max Grav

1=81 (LC 16), 4=141 (LC 1), 5=384

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-99/52, 2-3=-92/32, 3-4=-109/44

BOT CHORD 1-5=-40/30 4-5=-40/30

2-5=-299/153 WFBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 4 and 102 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



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

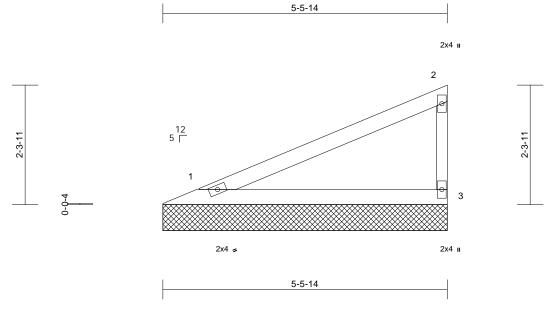
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Ply Truss Type Job Truss Qty Lot 195 HT 163679884 B240015 V3 Valley Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:36 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:22.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	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	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=5-5-14, 3=5-5-14

Max Horiz 1=86 (LC 5)

Max Uplift 1=-31 (LC 8), 3=-48 (LC 8) Max Grav 1=211 (LC 1), 3=211 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-76/51, 2-3=-164/76

BOT CHORD 1-3=-28/21

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; 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
- 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 SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 1 and 48 lb uplift at joint 3.

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



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

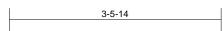
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



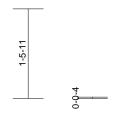
Ply Truss Type Job Truss Qty Lot 195 HT 163679885 B240015 V4 Valley Job Reference (optional)

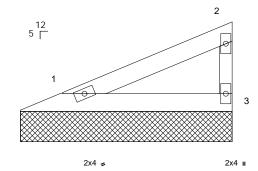
Wheeler Lumber, Waverly, KS - 66871,

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2x4 II







Page: 1

3-5-14

Scale = 1:19

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	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	IRC2018/TPI2014	Matrix-P							Weight: 8 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=3-5-14, 3=3-5-14

Max Horiz 1=49 (LC 5)

Max Uplift 1=-18 (LC 8), 3=-27 (LC 8) Max Grav 1=121 (LC 1), 3=121 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-44/29, 2-3=-94/44

BOT CHORD 1-3=-16/12

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; 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
- 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 6) 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 SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1 and 27 lb uplift at joint 3.

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



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

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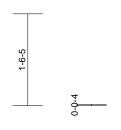
Ply Job Truss Truss Type Qty Lot 195 HT 163679886 B240015 V5 Valley Job Reference (optional)

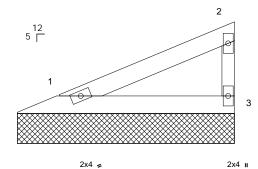
Wheeler Lumber, Waverly, KS - 66871,

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2x4 II





3-7-6

Scale = 1:19.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	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	IRC2018/TPI2014	Matrix-P							Weight: 8 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 1=52 (LC 5)

Max Uplift 1=-18 (LC 8), 3=-29 (LC 8) Max Grav 1=126 (LC 1), 3=126 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-46/30, 2-3=-98/46

BOT CHORD 1-3=-17/13

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; 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
- 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 SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1 and 29 lb uplift at joint 3.

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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

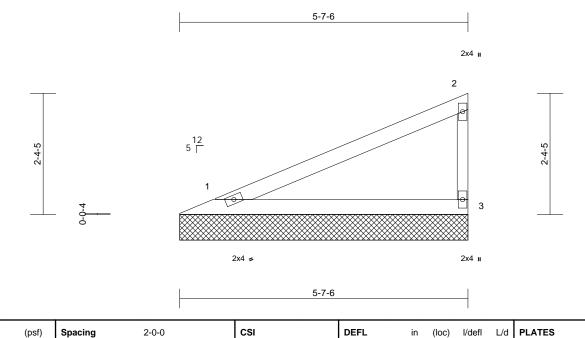
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Ply Qty Job Truss Truss Type Lot 195 HT 163679887 B240015 V6 Valley Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:36 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



BCLL BCDL

TCLL (roof)

TCDI

Scale = 1:22.4 Loading

LUMBER TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-0 oc purlins, except end verticals.

25.0

10.0

10.0

0.0*

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Code

1.15

1 15

YES

IRC2018/TPI2014

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

REACTIONS (size) 1=5-7-6, 3=5-7-6

Max Horiz 1=88 (LC 7)

Max Uplift 1=-32 (LC 8), 3=-49 (LC 8) Max Grav 1=216 (LC 1), 3=216 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-78/52, 2-3=-168/78

BOT CHORD 1-3=-29/22

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; 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
- 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 SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 1 and 49 lb uplift at joint 3.

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

0.44

0.24

0.00

Vert(LL)

Vert(TL)

Horiz(TL)

n/a

n/a

0.00

n/a 999

n/a

n/a n/a

3

999

MT20

Weight: 14 lb

LOAD CASE(S) Standard

TC

BC

WB

Matrix-P



GRIP

197/144

FT = 10%

February 19,2024

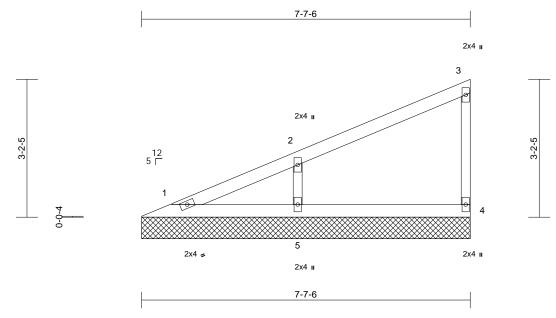






Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	V7	Valley	1	1	Job Reference (optional)	163679888

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:37 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scal	le	=	1	:26.
ocai	ı	=	- 1	.20.

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS 2x3 SPF No.2 OTHERS

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) 1=7-7-6, 4=7-7-6, 5=7-7-6

Max Horiz 1=124 (LC 5)

Max Uplift 4=-25 (LC 8), 5=-103 (LC 8)

1=86 (LC 16), 4=140 (LC 1), 5=389 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-101/54, 2-3=-93/31, 3-4=-109/44

BOT CHORD 1-5=-40/31 4-5=-40/31

2-5=-303/155 WFBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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 SPF No.2.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 4 and 103 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 19,2024



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

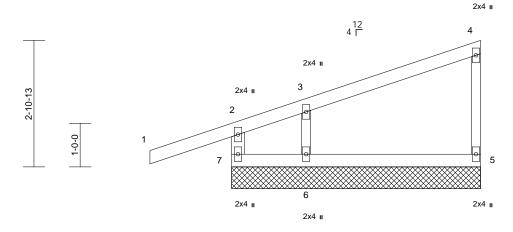
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 195 HT	
B240015	V8	Valley	1	1	Job Reference (optional)	163679889

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:37 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:26.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 19 lb	FT = 10%

5-8-8

LUMBER

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

2x4 SPF No.2 *Except* 4-5:2x3 SPF No.2 WEBS

2x3 SPF No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 5=5-8-8, 6=5-8-8, 7=5-8-8

Max Horiz 7=124 (LC 5)

Max Uplift 5=-28 (LC 4), 6=-76 (LC 8), 7=-102 (LC 4)

5=153 (LC 1), 6=232 (LC 1), 7=248 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-223/102, 1-2=0/45, 2-3=-80/4,

3-4=-81/19, 4-5=-118/49 BOT CHORD 6-7=-35/25, 5-6=-35/25

3-6=-183/115 WEBS

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; 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
- 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 0-0-0 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 SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 7, 28 lb uplift at joint 5 and 76 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



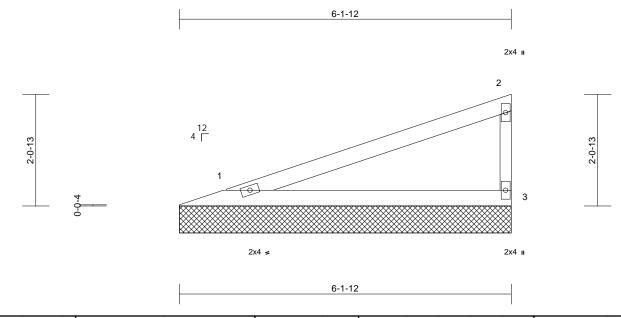
February 19,2024



Truss Type Job Truss Qty Ply Lot 195 HT 163679890 B240015 V9 Valley Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 6 2024 Print: 8.730 S Feb 6 2024 MiTek Industries, Inc. Fri Feb 16 08:46:37 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:21.3

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	n/a	-	n/a	999	MT20	197/144
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	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 15 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-2-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=6-1-12, 3=6-1-12

Max Horiz 1=77 (LC 5)

Max Uplift 1=-38 (LC 4), 3=-49 (LC 8) Max Grav 1=232 (LC 1), 3=232 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-68/46, 2-3=-181/80

BOT CHORD 1-3=-25/19

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; 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
- 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 SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 1 and 49 lb uplift at joint 3.

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





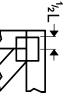
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



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

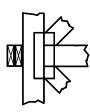
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

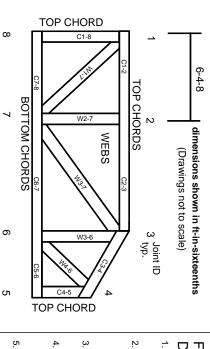
Industry Standards:

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.

ANSI/TPI1: DSB-22:

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 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.

œ

- 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.
- The design does not take into account any dynamic or other loads other than those expressly stated.