

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Re: B220119 Lot 187 HM

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

Pages or sheets covered by this seal: I53722105 thru I53722172

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193



August 19,2022

Sevier, Scott

,Engineer

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.

Qty Truss Type Common Structural Gable

Ply Lot 187 HM

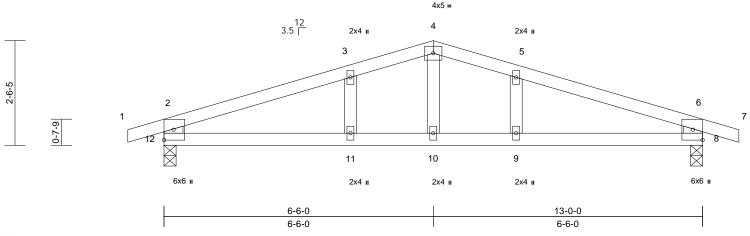
Job Reference (optional)

153722105

Page: 1

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:49:54 ID:Qbr1uy81VSc46R0O7jPCqQymvoh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-0-10-8	6-6-0	13-0-0	13-10-8
0-10-8	6-6-0	6-6-0	0-10-8



Scale = 1:27.8

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	0.49	Vert(LL)	-0.08	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.12	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.05	11-12	>999	240	Weight: 39 lb	FT = 10%

LUMBER

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

2x6 SPF No.2 *Except* 10-4:2x4 SPF No.2 WEBS

2x4 SPF No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-3-9 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 12=-24 (LC 9) Max Uplift 8=-130 (LC 5), 12=-130 (LC 4)

Max Grav 8=642 (LC 1), 12=642 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/22, 2-3=-956/115, 3-4=-892/138, 4-5=-892/138, 5-6=-956/115, 6-7=0/22,

2-12=-553/145, 6-8=-553/145

11-12=-70/857, 10-11=-70/857,

BOT CHORD 9-10=-70/857, 8-9=-70/857

WEBS 4-10=-33/240, 3-11=-87/87, 5-9=-87/87

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
- 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.
- 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 chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 12 and 130 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.

LOAD CASE(S) Standard



August 19,2022

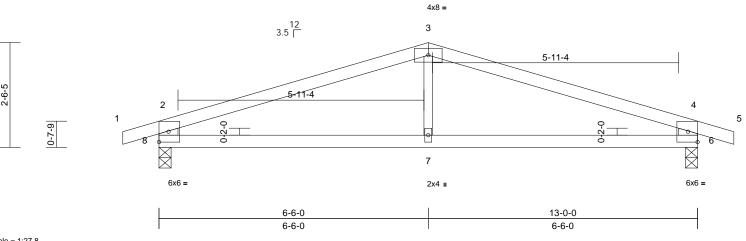


Qty Truss Type Ply Lot 187 HM 153722106 Common Job Reference (optional)

> Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:49:56 ID:k9bxGz6KyZ1oJ85UmNrRKbz4Sea-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:27.8

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)	-0.04	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.09	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	7-8	>999	240	Weight: 35 lb	FT = 10%

LOAD CASE(S) Standard

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

2x6 SPF No.2 *Except* 7-3:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-4-6 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=24 (LC 12)

Max Uplift 6=-130 (LC 5), 8=-130 (LC 4) Max Grav 6=642 (LC 1), 8=642 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-944/114, 3-4=-944/114, 4-5=0/22, 2-8=-577/169, 4-6=-577/169

7-8=-59/838, 6-7=-59/838

BOT CHORD WEBS 3-7=0/257

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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 8 and 130 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.

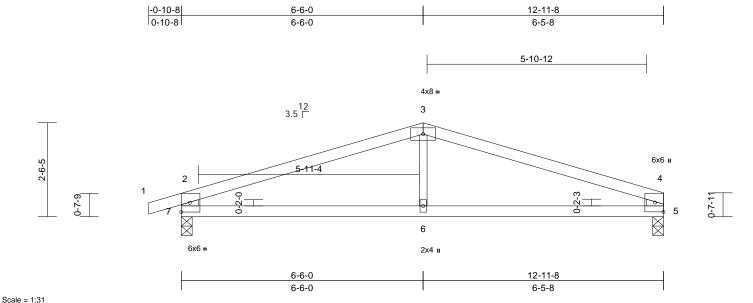




Qty Truss Type Ply Lot 187 HM 153722107 Common 2 Job Reference (optional)

> Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:49:57 ID:CL9JTJ7yjt9fxlggJ5Mgtpz4SeZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?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	0.55	Vert(LL)	-0.05	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.10	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.03	6-7	>999	240	Weight: 34 lb	FT = 10%

LUMBER LOAD CASE(S) Standard

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

2x6 SPF No.2 *Except* 6-3:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-4 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=30 (LC 8)

Max Uplift 5=-81 (LC 5), 7=-130 (LC 4) Max Grav 5=559 (LC 1), 7=643 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-940/117, 3-4=-936/113,

2-7=-573/168, 4-5=-481/117 BOT CHORD 6-7=-65/835, 5-6=-65/835

WEBS 3-6=0/247

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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 7 and 81 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.

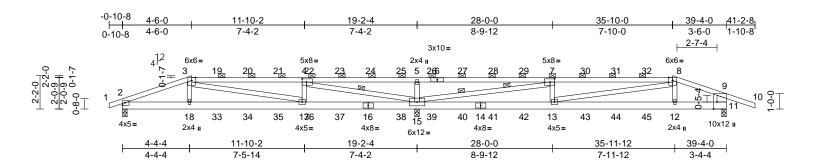




Truss Type	Qty	Ply	Lot 187 HM	
Hip Girder	1	1	Job Reference (optional)	153722108

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:49:59 ID:NSJTn4Fs7FY5I_0nTv3Fp7z4SeO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:75.1

Plate Offsets (X, Y): [4:0-3-8,0-2-8], [7:0-3-8,0-2-8], [11:0-5-8,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	0.78	Vert(LL)	-0.20	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.40	12-13	>603	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.20	12-13	>999	240	Weight: 164 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 3-6,6-8:2x4 SPF

2100F 1.8E 2x6 SPF No.2

BOT CHORD WEBS 2x4 SPF No.2 *Except* 11-9:2x8 SP DSS

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

WEBS 1 Row at midpt **WEBS** 2 Rows at 1/3 pts 7-15

REACTIONS (size) 2=0-3-8, 11=0-3-8, 15=0-3-8

Max Horiz 2=-20 (LC 33)

Max Uplift 2=-243 (LC 4), 11=-311 (LC 5),

15=-519 (LC 4)

Max Grav 2=886 (LC 21), 11=1019 (LC 22),

15=2232 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/1, 2-3=-1877/450, 3-4=-1591/408, TOP CHORD

4-5=-277/1259, 5-7=-277/1259,

7-8=-2072/501, 8-9=-1348/311, 9-10=0/48,

9-11=-713/234 2-18=-389/1705, 17-18=-391/1682,

15-17=-350/1591, 13-15=-441/2072

12-13=-256/1246, 11-12=-248/1239 WEBS 3-18=0/364, 3-17=-117/90, 4-17=0/310,

4-15=-2909/701, 5-15=-643/303,

7-15=-3376/792, 7-13=-65/263,

8-13=-198/858, 8-12=-150/157

NOTES

BOT CHORD

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 243 lb uplift at joint 2, 519 lb uplift at joint 15 and 311 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 46 lb up at 6-2-0, 70 lb down and 46 lb up at 8-2-0, 70 lb down and 46 lb up at 10-2-0, 70 lb down and 46 lb up at 12-2-0, 70 lb down and 46 lb up at 14-2-0, 70 lb down and 46 lb up at 16-2-0, 70 lb down and 46 lb up at 18-2-0, 70 lb down and 46 lb up at 20-2-0, 70 lb down and 46 lb up at 22-2-0, 70 lb down and 46 lb up at 24-2-0, 70 lb down and 46 lb up at 26-2-0, 70 lb down and 46 lb up at 28-2-0, 70 lb down and 46 lb up at 30-2-0, and 70 lb down and 46 lb up at 32-2-0, and 70 lb down and 46 lb up at 34-2-0 on top chord, and 140 lb down and 64 lb up at 4-6-0, 20 lb down at 6-2-0, 20 lb down at 8-2-0, 20 lb down at 10-2-0, 20 lb down at 12-2-0, 20 lb down at 14-2-0, 20 lb down at 16-2-0, 20 lb down at 18-2-0, 20 lb down at 20-2-0, 20 lb down at 22-2-0, 20 lb down at 24-2-0, 20 lb down at 26-2-0, 20 lb down at 28-2-0, 20 lb down at 30-2-0, 20 lb down at 32-2-0, and 20 lb down at 34-2-0, and 140 lb down and 57 lb up at 35-10-0 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.



August 19,2022

Continued on page 2

. Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek@ connectors. This design is based only upon parameters shown, and is for an individual building component, not

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



EASE FOR CONSTRUCTION NOTED ON PLANS REVIEW DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/23/2023 4:37:15

Truss Type	Qty	Ply	Lot 187 HM	
Hip Girder	1	1	Job Reference (optional)	153722108

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:49:59 $ID:NSJTn4Fs7FY5I_0nTv3Fp7z4SeO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f$

Page: 2

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

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

Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-8=-70, 8-9=-70, 9-10=-70, 2-11=-20

Concentrated Loads (lb)

oncentrated Loads (lb)

Vert: 16=-5 (B), 18=-94 (B), 7=-10 (B), 13=-5 (B), 12=-79 (B), 19=-10 (B), 20=-10 (B), 21=-10 (B), 22=-10 (B), 23=-10 (B), 24=-10 (B), 25=-10 (B), 26=-10 (B), 27=-10 (B), 28=-10 (B), 29=-10 (B), 30=-10 (B), 31=-10 (B), 32=-10 (B), 33=-5 (B), 34=-5 (B), 35=-5 (B), 36=-5 (B), 37=-5 (B), 38=-5 (B), 39=-5 (B), 40=-5 (B), 40=-5 (B), 41=-5 (B), 42=-5 (B), 43=-5 (B), 44=-5 (B), 45=-5 (B)

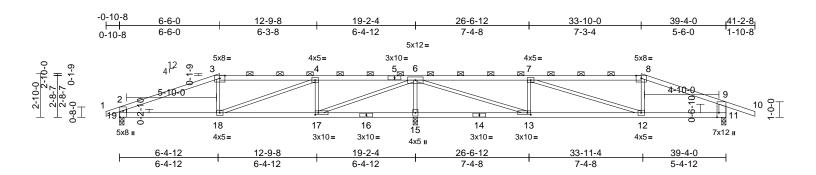
(B), 45=-5 (B)

MiTek[®] 16023 Swingley Ridge Rd Chesterfield, MO 63017

Truss Type	Qty	Ply	Lot 187 HM	
Hip	1	1	Job Reference (optional)	153722109

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Wed Aug 17 14:50:00

Page: 1



Scale = 1:74.7

Plate Offsets (X, Y): [11:0-3-8,Edge], [13:0-2-8,0-1-8], [17:0-2-8,0-1-8], [19:0-4-12,0-2-8]

												-
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	0.72	Vert(LL)	-0.20	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.40	12-13	>605	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	12-13	>999	240	Weight: 127 lb	FT = 10%

LUMBER

2x4 SPF 2100F 1.8E *Except* 3-5,5-8:2x4 TOP CHORD

SPF No.2 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 11-9,19-2:2x6 SP

DSS

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

5-8-7 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-12 max.): 3-8.

BOT CHORD Rigid ceiling directly applied or 4-6-13 oc

bracing.

REACTIONS (size) 11=0-3-8, 15=0-3-8, 19=0-3-8

19=23 (LC 8) Max Horiz

Max Uplift 11=-231 (LC 5), 15=-370 (LC 4),

19=-178 (LC 4)

Max Grav 11=848 (LC 22), 15=2156 (LC 1),

19=728 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/24, 2-3=-1108/227, 3-4=-981/246, TOP CHORD 4-6=-540/196, 6-7=-829/237, 7-8=-936/214,

8-9=-1072/202, 9-10=0/47, 9-11=-742/245,

2-19=-659/213

BOT CHORD 18-19=-164/976, 17-18=-120/540, 15-17=-1491/256, 13-15=-1491/256,

12-13=-150/829, 11-12=-116/935

WEBS 3-18=-55/123, 4-18=-51/495, 4-17=-635/207,

6-17=-365/2121, 6-15=-1996/448, 6-13=-423/2441, 7-13=-602/223,

7-12=-8/124, 8-12=0/175

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 19, 370 lb uplift at joint 15 and 231 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.
- 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



August 19,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

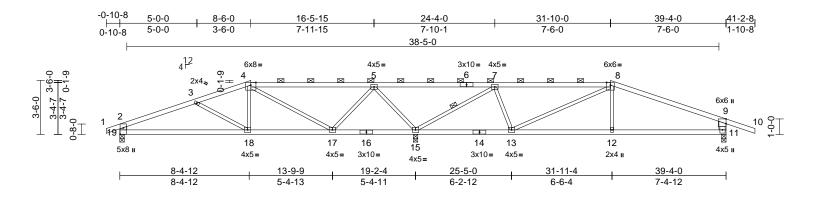
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type	Qty	Ply	Lot 187 HM	
Hip	1	1	Job Reference (optional)	153722110

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:00 ID:rftr_QGUuZgyN8bz0caUMLz4SeN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:74.7

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	0.97	Vert(LL)	-0.11	18-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.23	18-19	>971	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	12-13	>999	240	Weight: 128 lb	FT = 10%

TOP CHORD 2x4 SPF No.2 *Except* 4-6,6-8:2x4 SPF

2100F 1.8E

2x4 SPF No.2 *Except* 16-14:2x4 SPF BOT CHORD

2100F 1 8F

WEBS 2x3 SPF No.2 *Except* 11-9,19-2:2x6 SPF

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins

(6-0-0 max.): 4-8.

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

bracing. WEBS

7-15 1 Row at midpt

REACTIONS (size) 11=0-3-8, 15=0-3-8, 19=0-3-8

Max Horiz 19=34 (LC 12)

Max Uplift 11=-223 (LC 5), 15=-388 (LC 4),

19=-164 (LC 4)

11=792 (LC 22), 15=2325 (LC 1), Max Grav

19=644 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/24, 2-3=-895/239, 3-4=-622/165,

4-5=0/336, 5-7=-225/1840, 7-8=-132/136,

8-9=-866/184, 9-10=0/47, 9-11=-700/261,

2-19=-558/207

BOT CHORD 18-19=-196/783, 17-18=-82/565,

15-17=-808/107, 13-15=-191/16, 12-13=-87/728, 11-12=-84/731

WEBS 3-18=-246/150, 4-18=0/336, 4-17=-968/158,

5-17=-39/776, 5-15=-1568/365, 7-15=-1977/386, 7-13=0/498, 8-13=-732/99,

8-12=0/269

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 19, 388 lb uplift at joint 15 and 223 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.
- 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

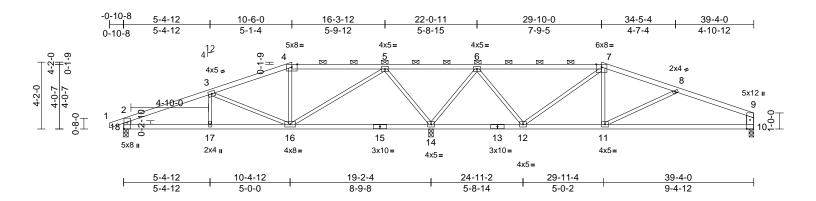


August 19,2022



Truss Type	Qty	Ply	Lot 187 HM	
Hip	1	1	Job Reference (optional)	153722111

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:01 ID:KrRDClH6ftop?IAAaK5juYz4SeM-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:71.9

Plate Offsets (X, Y): [9:0-6-12,0-2-8], [18:0-4-12,0-2-8]

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	0.58	Vert(LL)	-0.18	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.36	10-11	>664	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	-0.01	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	11-12	>999	240	Weight: 131 lb	FT = 10%

2x4 SPF No.2 *Except* 4-7:2x4 SPF 2100F TOP CHORD

1.8E

BOT CHORD 2x4 SPF No.2 *Except* 15-13:2x4 SPF

2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 10-9,18-2:2x6 SPF

No.2

BRACING TOP CHORD

TOP CHORD

Structural wood sheathing directly applied or

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

BOT CHORD Rigid ceiling directly applied or 5-5-14 oc

bracing.

REACTIONS (size) 10=0-3-8, 14=0-3-8, 18=0-3-8

Max Horiz 18=58 (LC 8)

Max Uplift 10=-91 (LC 5), 14=-442 (LC 5),

18=-141 (LC 4)

10=567 (LC 22), 14=2500 (LC 1), Max Grav

18=648 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/24, 2-3=-938/173, 3-4=-414/176,

4-5=-351/145, 5-6=-354/1918, 6-7=-57/462,

7-8=-480/75, 8-9=-791/178, 9-10=-460/137,

2-18=-570/169

BOT CHORD 17-18=-172/825, 16-17=-172/825, 14-16=-1060/276, 12-14=-990/232,

11-12=0/422, 10-11=-137/680

WEBS 3-17=0/158, 3-16=-585/175, 4-16=-336/134,

5-16=-196/1347, 5-14=-1408/336, 6-14=-1526/379, 6-12=-109/870,

7-12=-1001/194, 7-11=0/357, 8-11=-305/189

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 18, 442 lb uplift at joint 14 and 91 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.
- 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



August 19,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



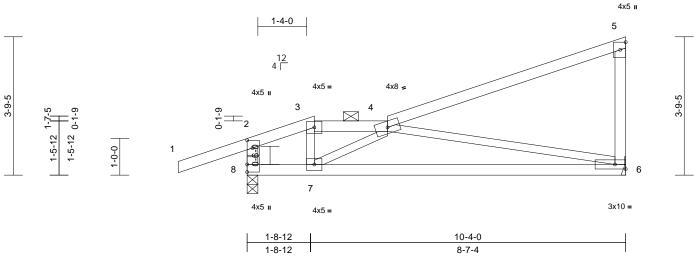
Page: 1

Ply Truss Type Qty Lot 187 HM 153722112 Roof Special Girder Job Reference (optional)

> Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:01 ID:KrRDCIH6ftop?IAAaK5juYz4SeM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:31.5

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

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	0.62	Vert(LL)	-0.15	6-7	>779	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.32	6-7	>371	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	6-7	>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* 5-6,8-2:2x4 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

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

Max Horiz 8=163 (LC 7)

Max Uplift 6=-93 (LC 8), 8=-178 (LC 4)

Max Grav 6=438 (LC 1), 8=610 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=0/45, 2-3=-488/6, 3-4=-388/10, TOP CHORD

4-5=-158/15, 5-6=-203/92, 2-8=-537/131

BOT CHORD 7-8=-74/413. 6-7=-216/850 WFBS 3-7=0/337, 4-7=-567/237, 4-6=-809/246

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

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 6 and 178 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 34 lb up at 1-10-0 on top chord, and 66 lb down and 36 lb up at 1-10-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

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: 7=-3 (F)





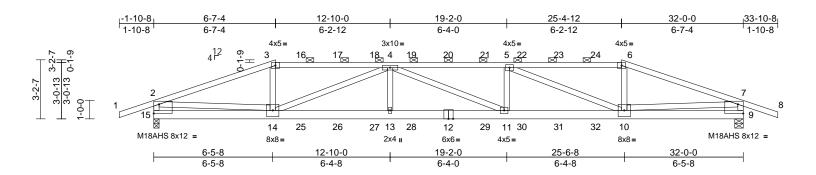




Ply Qty Truss Type Lot 187 HM 153722113 Hip Girder 2 Job Reference (optional)

> Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:02 ID:GEZ_dRINBU2XEbKYhl7Bzzz4SeK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.5

Plate Offsets (X, Y):	[9:Edge,0-6-0],	[15:Edge,0-6-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
	\ ,	-			0.70		0.00	٠,			_	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC		Vert(LL)		11-13	>999		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.54	11-13	>701	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.26	11-13	>999	240	Weight: 294 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 3-6:2x4 SPF 2100F TOP CHORD

1.8E

BOT CHORD 2x6 SPF No.2 WEBS 2x4 SPF No.2

BRACING

Structural wood sheathing directly applied or TOP CHORD 4-3-6 oc purlins, except end verticals, and

2-0-0 oc purlins (5-4-8 max.): 3-6.

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

bracing

REACTIONS (size) 9=0-5-8, 15=0-3-8

Max Horiz 15=-26 (LC 9) 9=-650 (LC 5), 15=-650 (LC 4) Max Uplift

Max Grav 9=2846 (LC 1), 15=2846 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/45, 2-3=-5955/1229, 3-4=-5522/1188, TOP CHORD

4-5=-8450/1779, 5-6=-5524/1189,

6-7=-5958/1229, 7-8=0/45, 2-15=-2719/663,

7-9=-2720/663

BOT CHORD 14-15=-213/822, 13-14=-1698/8461,

11-13=-1698/8461, 10-11=-1677/8450,

9-10=-188/820

WFBS 3-14=-174/1395, 4-14=-3286/693

4-13=0/525, 4-11=-82/58, 5-11=0/521,

5-10=-3272/688, 6-10=-173/1394,

2-14=-936/4793, 7-10=-936/4797

NOTES

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

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

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

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

or the orientation of the purlin along the top and/or bottom chord.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for 3) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 650 lb uplift at joint 15 and 650 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.
- 11) Graphical purlin representation does not depict the size

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 146 lb down and 85 lb up at 8-0-0, 146 lb down and 85 lb up at 10-0-0, 146 lb down and 85 lb up at 12-0-0, 146 lb down and 85 lb up at 14-0-0, 146 lb down and 85 lb up at 16-0-0, 146 lb down and 85 lb up at 18-0-0, 146 lb down and 85 lb up at 20-0-0, and 146 lb down and 85 lb up at 22-0-0, and 146 lb down and 85 lb up at 24-0-0 on top chord, and 488 lb down and 133 lb up at 6-7-4, 79 lb down at 8-0-0, 79 lb down at 10-0-0, 79 lb down at 12-0-0, 79 lb down at 14-0-0, 79 lb down at 16-0-0, 79 lb down at 18-0-0, 79 lb down at 20-0-0, 79 lb down at 22-0-0, and 79 lb down at 24-0-0, and 488 lb down and 133 lb up at 25-4-12 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

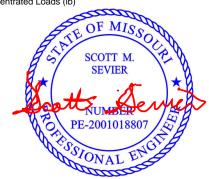
LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1 15

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-6=-70, 6-7=-70, 7-8=-70, 9-15=-20

Concentrated Loads (lb)



August 19,2022

Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



EASE FOR CONSTRUCTION NOTED ON PLANS REVIEW DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Wheeler Limber Wavery, KS 56871.17 Vert: 12=-52 (F), 14=-488 (F), 10=-488 (F), 16=-123 (F), 17=-123 (F), 18=-123 (F), 19=-123 (F), 20=-123 (F), 21=-123 (F), 22=-123 (F), 23=-123 (F), 24=-123 (F), 25=-52 (F), 26=-52 (F), 27=-52 (F), 28=-52 (F), 29=-52 (F), 30=-52 (F), 31=-52 (F), 32=-52 (F)

Ply Truss Type Qty Lot 187 HM Hip Girder Job Reference (optional)

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:02 ID:GEZ_dRINBU2XEbKYhl7Bzzz4SeK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

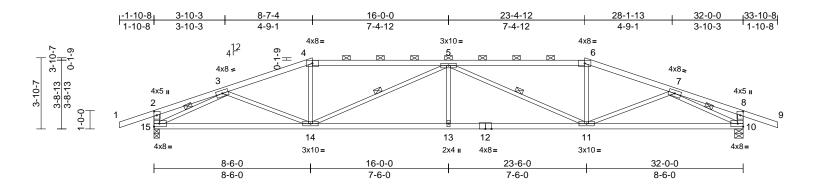
Page: 2

153722113

Truss Type	Qty	Ply	Lot 187 HM	
Hip	1	1	Job Reference (optional)	153722114

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:03 ID:8?oUSpLtEjYzjDdKwaC78pz4SeG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.6

Plate Offsets (X, Y):	[2:0-2-8,0-1-12]	[8:0-2-8,0-1-12]
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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	0.51	Vert(LL)	-0.25	13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.46	13-14	>825	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.14	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.19	13	>999	240	Weight: 115 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 4-6:2x4 SPF 2100F TOP CHORD

1.8E

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 15-2,10-8:2x4 SPF

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

3-0-14 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-15 max.): 4-6.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

WEBS 1 Row at midpt 5-14, 5-11, 3-15, 7-10

REACTIONS (size) 10=0-5-8, 15=0-3-8

Max Horiz 15=-35 (LC 9)

Max Uplift 10=-337 (LC 5), 15=-337 (LC 4) Max Grav 10=1568 (LC 1), 15=1568 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-3=-268/14, 3-4=-2726/472,

4-5=-2541/474, 5-6=-2541/474, 6-7=-2726/472, 7-8=-268/14, 8-9=0/45, 2-15=-356/132, 8-10=-356/132

BOT CHORD 14-15=-405/2233, 13-14=-517/3366,

11-13=-517/3366, 10-11=-376/2233

WEBS 3-14=-9/499, 4-14=0/450, 5-14=-1042/238, 5-13=0/274, 5-11=-1042/237, 6-11=0/450,

7-11=-9/499, 3-15=-2362/521,

7-10=-2362/521

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 337 lb uplift at joint 15 and 337 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



August 19,2022



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

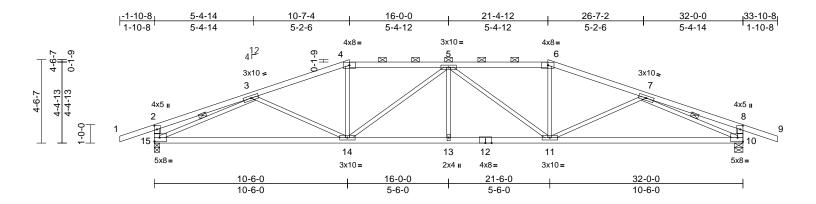
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers 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, rerection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type	Qty	Ply	Lot 187 HM	
Hip	1	1	Job Reference (optional)	153722115

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:03 ID:50wFtUN7mKogyWni2?EbDEz4SeE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:62.6

Plate Offsets (X, Y):	[2:0-2-8,0-1-12], [8:0-2-8,0-1-12]
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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	0.59	Vert(LL)	-0.25	14-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.53	14-15	>712	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.10	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.14	13-14	>999	240	Weight: 119 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 15-2,10-8:2x4 SPF WEBS

BRACING TOP CHORD

Structural wood sheathing directly applied or 2-10-9 oc purlins, except end verticals, and

2-0-0 oc purlins (3-4-14 max.): 4-6.

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

bracing. WEBS

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

15=47 (LC 8)

Max Uplift 10=-328 (LC 5), 15=-328 (LC 4)

Max Grav 10=1568 (LC 1), 15=1568 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-3=-402/21, 3-4=-2603/432,

4-5=-2412/435, 5-6=-2412/435, 6-7=-2603/432, 7-8=-402/21, 8-9=0/45,

2-15=-447/159, 8-10=-447/159 BOT CHORD 14-15=-438/2427, 13-14=-383/2759,

11-13=-383/2759, 10-11=-400/2427

WFBS 3-14=-48/243, 4-14=-7/452, 5-14=-577/172,

5-13=0/94, 5-11=-577/172, 6-11=-7/452,

7-11=-48/243, 3-15=-2350/520,

7-10=-2350/520

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 328 lb uplift at joint 15 and 328 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



August 19,2022



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

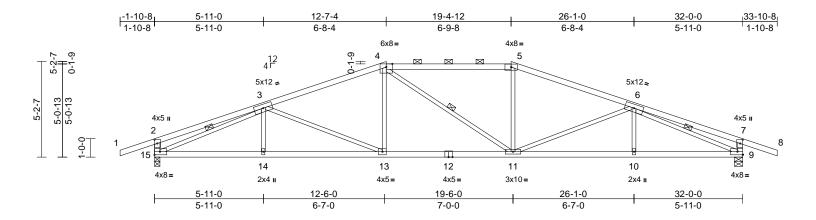
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers 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, rerection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type	Qty	Ply	Lot 187 HM	
Hip	1	1	Job Reference (optional)	153722116

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:04 ID:50wFtUN7mKogyWni2?EbDEz4SeE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:62.7

Plate Offsets (X, Y): [2:0-2-8,0-1	-12], [7:0-2-8,0-1-12]	l
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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	0.93	Vert(LL)	-0.18	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.36	11-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.13	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.14	13-14	>999	240	Weight: 119 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 4-5:2x4 SPF 2100F TOP CHORD

1.8E

BOT CHORD 2x4 SPF No.2

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

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied,

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

(4-4-1 max.): 4-5.

BOT CHORD Rigid ceiling directly applied or 9-5-5 oc

bracing.

WEBS 1 Row at midpt 4-11, 3-15, 6-9

REACTIONS (size) 9=0-5-8, 15=0-3-8

Max Horiz 15=-59 (LC 9)

Max Uplift 9=-318 (LC 5), 15=-318 (LC 4)

Max Grav 9=1568 (LC 1), 15=1568 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-3=-388/87, 3-4=-2445/404,

4-5=-2251/416, 5-6=-2446/404, 6-7=-388/87,

7-8=0/45, 2-15=-457/186, 7-9=-457/185 **BOT CHORD** 14-15=-386/2547, 13-14=-386/2547,

11-13=-271/2250, 10-11=-340/2546

9-10=-340/2546

WEBS 3-14=0/240, 3-13=-369/175, 4-13=0/357, 4-11=-225/226, 5-11=0/357, 6-11=-368/176,

6-10=0/239, 3-15=-2472/378, 6-9=-2471/379

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 318 lb uplift at joint 15 and 318 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.
- 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



August 19,2022



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

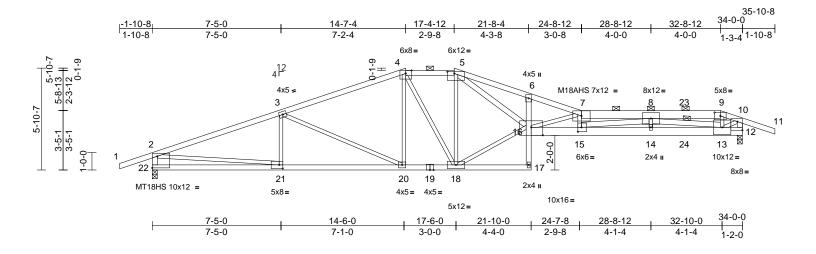
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Ply Truss Type Qtv Lot 187 HM 153722117 Roof Special Girder Job Reference (optional)

> Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:04 ID:ZaUd5qOmXewXagMucjlqmSz4SeD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.4

Plate Offsets (X, Y): [5:0-4-12,0-1-4], [9:0-4-0,0-2-6], [12:Edge,0-6-0], [15:0-2-8,0-3-0], [16:0-8-0,Edge], [21:0-2-8,0-2-8], [22:Edge,0-8-0]

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	0.75	Vert(LL)	-0.67	15-16	>607	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-1.18	15-16	>344	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.22	12	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.47	15-16	>870	240	Weight: 159 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 4-5,9-11:2x4 SPF No.2, 7-9:2x6 SPF 1650F 1.4E

2x4 SPF No.2 *Except* 16-12:2x6 SP DSS BOT CHORD WEBS

2x3 SPF No.2 *Except* 16-5:2x4 SPF 2100F 1.8E, 22-2,12-10,15-8,8-13:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-8-11 oc purlins, except end verticals, and 2-0-0 oc purlins (2-6-0 max.): 4-5, 7-9.

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

bracing.

WEBS 1 Row at midpt 8-13

REACTIONS (size) 12=0-3-8, 22=0-3-8 Max Horiz 22=118 (LC 34)

Max Uplift 12=-358 (LC 5), 22=-310 (LC 4)

Max Grav 12=1525 (LC 1), 22=1648 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-3=-3002/426, 3-4=-2465/359,

4-5=-2273/390, 5-6=-5801/907,

6-7=-5941/866, 7-8=-8720/1273 8-9=-1626/246, 9-10=-1742/268, 10-11=0/45,

2-22=-1569/347, 10-12=-1730/383 BOT CHORD

21-22=-186/440, 20-21=-430/2768,

18-20=-266/2257, 17-18=-11/124, 16-17=0/87, 6-16=-191/136,

15-16=-1214/8613, 14-15=-867/5967,

13-14=-867/5967, 12-13=-30/96 3-21=-105/144, 3-20=-641/214,

WEBS 4-20=-25/379, 4-18=-221/243,

5-18=-1045/215, 16-18=-264/2378, 5-16=-636/4132, 7-16=-3157/480, 7-15=-1040/209, 9-13=-52/327, 2-21=-285/2340, 10-13=-313/1926,

8-14=0/195, 8-15=-492/2981,

8-13=-4460/677

- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 310 lb uplift at ioint 22 and 358 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.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 71 lb down and 127 lb up at 29-0-0, and 71 lb down and 127 lb up at 30-8-0, and 71 lb down and 127 lb up at 32-8-12 on top chord, and 16 lb down and 23 lb up at 29-0-0, and 16 lb down and 23 lb up at 30-8-0, and 107 lb down and 184 lb up at 32-8-0 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, 2-4=-70, 4-5=-70, 5-7=-70, 7-9=-70, 9-10=-70, 10-11=-70, 17-22=-20, 12-16=-20

Concentrated Loads (lb)

Vert: 9=30 (F), 13=54 (F), 8=30 (F), 23=30 (F)



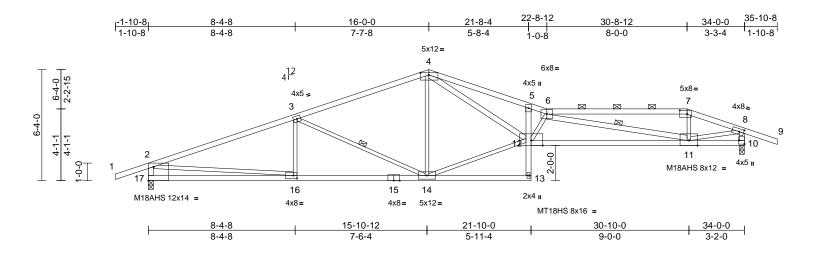




Truss Type	Qty	Ply	Lot 187 HM	
Roof Special	1	1	Job Reference (optional)	153722118

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Wed Aug 17 14:50:05 ID:CL9JTJ7yjt9fxlggJ5Mgtpz4SeZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:65.7

Plate Offsets (X, Y): [4:0-5-12,0-1-8], [7:0-5-0,0-2-8], [8:0-3-0,0-2-0], [10:Edge,0-3-8], [16:0-2-8,0-2-0], [17:Edge,0-9-8]

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	0.97	Vert(LL)	-0.54	12	>751	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.97	11-12	>415	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.21	10	n/a	n/a	M18AHS	142/136
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.39	12	>999	240	Weight: 136 lb	FT = 10%

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 7-9:2x4 SPF

No.2

BOT CHORD 2x4 SPF No.2 *Except* 12-10:2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 12-4:2x4 SPF No.2,

11-6,17-2,10-8:2x4 SPF 2100F 1.8E

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-5-1 oc purlins, except end verticals, and

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

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

bracing.

WEBS 3-14, 6-11 1 Row at midpt

REACTIONS (size) 10=0-3-8, 17=0-3-8 Max Horiz 17=126 (LC 8)

Max Uplift 10=-318 (LC 5), 17=-294 (LC 4)

Max Grav 10=1658 (LC 1), 17=1658 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/45, 2-3=-3030/386, 3-4=-2345/337,

4-5=-5696/851, 5-6=-5797/786,

6-7=-2440/340, 7-8=-2624/334, 8-9=0/45,

2-17=-1571/337, 8-10=-1661/304

BOT CHORD 16-17=-233/575, 14-16=-389/2784, 13-14=-22/138, 12-13=0/97, 5-12=-186/101,

11-12=-825/6247, 10-11=-22/52

3-16=-50/194, 3-14=-800/235,

4-14=-274/122, 12-14=-182/2120,

4-12=-605/3949, 6-12=-1527/322,

6-11=-3899/565, 7-11=0/467,

2-16=-206/2219, 8-11=-331/2542

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) 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 294 lb uplift at joint 17 and 318 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



August 19,2022

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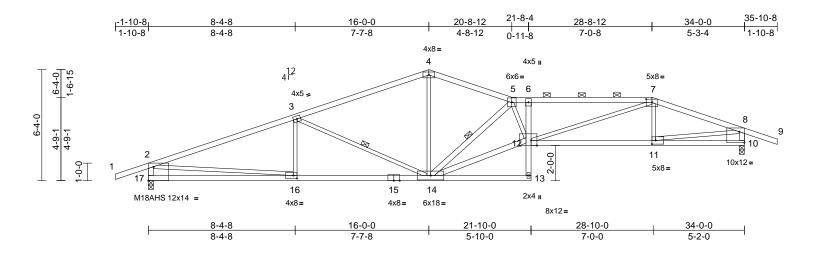


16023 Swingley Ridge Rd Chesterfield, MO 63017

Truss Type	Qty	Ply	Lot 187 HM	
Roof Special	1	1	Job Reference (optional)	153722119

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:05 ID:CL9JTJ7yjt9fxlggJ5Mgtpz4SeZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:65.7

Plate Offsets (X, Y): [7:0-4-0,0-2-3], [10:Edge,0-7-8], [11:0-2-8,0-2-8], [12:0-4-0,Edge], [16:0-2-8,0-2-0], [17:Edge,0-9-8]

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	0.88	Vert(LL)	-0.36	12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.65	11-12	>619	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.14	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.26	12	>999	240	Weight: 137 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 1-4:2x4 SPF 2100F

1.8E, 5-7:2x4 SPF 2400F 2.0E

2x4 SPF No.2 BOT CHORD

WEBS 2x3 SPF No.2 *Except* 5-14:2x4 SPF No.2,

14-12.17-2.10-8:2x4 SPF 2100F 1.8E

BRACING TOP CHORD

Structural wood sheathing directly applied or

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

BOT CHORD Rigid ceiling directly applied or 9-4-12 oc

bracing.

WEBS 1 Row at midpt 3-14, 5-14

REACTIONS

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

Max Horiz 17=126 (LC 8)

Max Uplift 10=-318 (LC 5), 17=-292 (LC 4) Max Grav 10=1658 (LC 1), 17=1658 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-3=-3032/380, 3-4=-2323/336,

4-5=-2294/333, 5-6=-4712/680,

6-7=-4824/695, 7-8=-2888/402, 8-9=0/45,

2-17=-1572/335, 8-10=-1608/338

16-17=-233/572, 14-16=-383/2787, **BOT CHORD**

13-14=-19/107, 12-13=0/89, 6-12=-394/190,

11-12=-316/2687, 10-11=-47/225

3-16=-46/201, 3-14=-820/237, 4-14=-80/986, 5-14=-2914/455, 12-14=-520/4382,

5-12=-218/1340, 7-12=-302/2263,

7-11=-234/133, 2-16=-200/2224,

8-11=-309/2479

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) 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 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 318 lb uplift at joint 10 and 292 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.

LOAD CASE(S) Standard



August 19,2022

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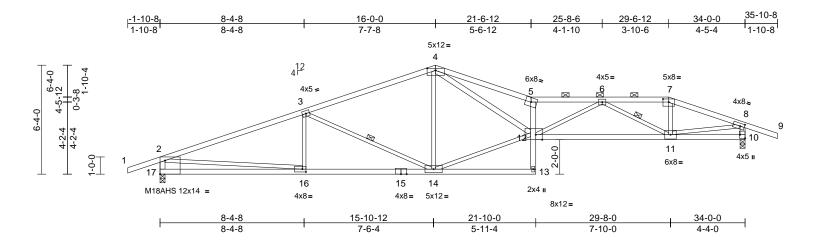
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type	Qty	Ply	Lot 187 HM	
Roof Special	1	1	Job Reference (optional)	153722120

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Wed Aug 17 14:50:06 ID:CL9JTJ7yjt9fxlggJ5Mgtpz4SeZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.9

Plate Offsets (X, Y): [4:0-5-12,0-1-8], [7:0-4-0,0-2-3], [8:0-3-0,0-2-0], [10:Edge,0-3-8], [12:0-4-8,Edge], [16:0-2-8,0-2-0], [17:Edge,0-9-8]

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	0.92	Vert(LL)	-0.45	5-12	>894	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.82	11-12	>493	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.17	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.33	5-12	>999	240	Weight: 134 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 5-7,7-9:2x4

SPF No.2

2x4 SPF No.2 *Except* 12-10:2x4 SPF BOT CHORD 2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 12-4:2x4 SPF No.2,

17-2,10-8:2x4 SPF 2100F 1.8E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-4-4 oc purlins, except end verticals, and 2-0-0 oc purlins (2-1-14 max.): 5-7.

BOT CHORD Rigid ceiling directly applied or 9-4-6 oc

bracing. WEBS

3-14, 6-11 1 Row at midpt

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

Max Horiz 17=126 (LC 8)

Max Uplift 10=-318 (LC 5), 17=-292 (LC 4)

Max Grav 10=1658 (LC 1), 17=1658 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/45, 2-3=-3030/382, 3-4=-2346/337,

4-5=-5675/839, 5-6=-5339/721, 6-7=-2532/365, 7-8=-2763/367, 8-9=0/45,

2-17=-1571/336, 8-10=-1617/326

BOT CHORD 16-17=-233/575, 14-16=-386/2784, 13-14=-18/134, 12-13=0/97, 5-12=-2075/397,

11-12=-572/4204, 10-11=-39/187

WEBS 3-16=-50/194, 3-14=-800/235,

4-14=-275/124, 12-14=-182/2125,

4-12=-593/3929, 7-11=-15/630,

2-16=-203/2218, 8-11=-290/2412,

6-12=-117/1293, 6-11=-1909/331

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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint 17 and 318 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



August 19,2022



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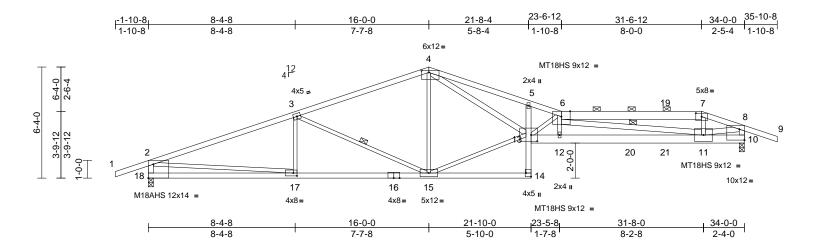
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type	Qty	Ply	Lot 187 HM	
Roof Special Girder	1	1	Job Reference (optional)	153722121

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Wed Aug 17 14:50:06 ID:CL9JTJ7yjt9fxlggJ5Mgtpz4SeZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:65.7

Plate Offsets (X, Y): [4:0-5-0,0-1-4], [7:0-4-0,0-2-6], [10:Edge,0-7-8], [13:0-4-4,0-4-4], [14:Edge,0-3-8], [17:0-2-8,0-2-0], [18:Edge,0-9-8]

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	0.89	Vert(LL)	-0.60	13	>674	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-1.08	14	>376	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.22	10	n/a	n/a	M18AHS	142/136
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.44	12-13	>917	240	Weight: 156 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 4-6:2x4 SPF 2400F 2.0E, 6-7:2x6 SPF No.2, 7-9:2x4 SPF

No.2

BOT CHORD 2x4 SPF No.2 *Except* 13-10:2x6 SP DSS WEBS 2x3 SPF No.2 *Except* 13-4,11-6,18-2:2x4

SPF 2100F 1.8E, 10-8,11-8:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-5-3 oc purlins, except end verticals, and 2-0-0 oc purlins (2-10-4 max.): 6-7.

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

bracing.

WEBS 3-15, 6-11 1 Row at midpt **REACTIONS** (size) 10=0-3-8, 18=0-3-8

Max Horiz 18=128 (LC 8)

Max Uplift 10=-397 (LC 5), 18=-309 (LC 4) Max Grav 10=1883 (LC 1), 18=1710 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/45, 2-3=-3157/424, 3-4=-2480/375, TOP CHORD

4-5=-6446/1034, 5-6=-6482/966,

6-7=-3049/497, 7-8=-3254/506, 8-9=0/45,

2-18=-1622/353, 8-10=-2104/419

BOT CHORD 17-18=-238/585, 15-17=-427/2905,

14-15=-16/179, 13-14=0/96, 5-13=-309/142, 12-13=-1146/8056, 11-12=-1153/8055,

10-11=-7/102

3-17=-59/190, 3-15=-788/248,

4-15=-344/142, 13-15=-233/2223, 4-13=-771/4637, 6-13=-2384/375, 6-12=-50/276, 6-11=-5084/723,

7-11=-14/551, 2-17=-238/2329, 8-11=-533/3218

NOTES

WEBS

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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 309 lb uplift at joint 18 and 397 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.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 23 lb up at 29-6-0, and 53 lb down and 25 lb up at 31-6-12 on top chord, and 275 lb down and 63 lb up at 27-6-0, and 12 lb down and 8 lb up at 29-6-0, and 50 lb down and 26 lb up at 31-6-0 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, 2-4=-70, 4-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 14-18=-20, 10-13=-20

Concentrated Loads (lb) Vert: 11=-9 (B), 20=-275 (B), 21=8 (B)



August 19,2022

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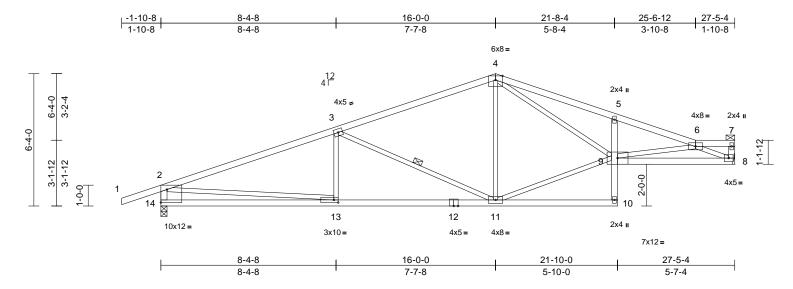
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type	Qty	Ply	Lot 187 HM	
Roof Special	1	1	Job Reference (optional)	153722122

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:07 ID:CL9JTJ7yjt9fxlggJ5Mgtpz4SeZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:55.1

Plate Offsets (X, Y): [1	13:0-2-8,0-1-8], [14:Edge,0-7-8]
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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	0.79	Vert(LL)	-0.16	11-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.31	11-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.11	11-13	>999	240	Weight: 107 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 7-8,14-2:2x4 SPF 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.): 6-7.

BOT CHORD Rigid ceiling directly applied or 9-8-1 oc

bracing.

WEBS 1 Row at midpt 3-11

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

Max Horiz 14=138 (LC 8)

Max Uplift 8=-166 (LC 5), 14=-275 (LC 4) Max Grav 8=1216 (LC 1), 14=1368 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-3=-2318/339, 3-4=-1534/238,

4-5=-2724/450, 5-6=-2743/361, 6-7=-117/0,

7-8=-103/27, 2-14=-1284/318 13-14=-243/491, 11-13=-361/2112

BOT CHORD 10-11=-9/83, 9-10=0/93, 5-9=-382/190,

8-9=-343/2235

WEBS 3-13=0/236, 3-11=-868/241, 4-11=-32/202,

9-11=-153/1360, 4-9=-281/1422,

6-9=-17/356, 6-8=-2375/388, 2-13=-166/1627

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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 8 and 275 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.
- 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



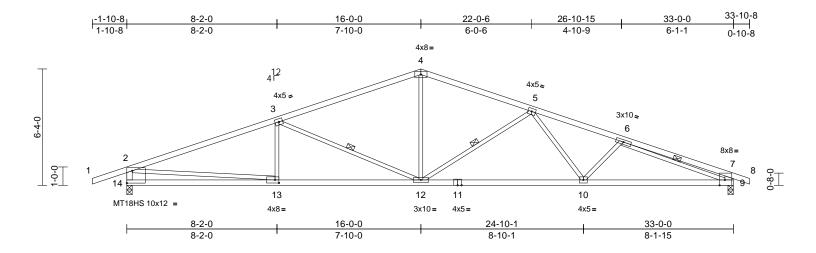




Truss Type	Qty	Ply	Lot 187 HM	
Common	1	1	Job Reference (optional)	153722123

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:07

Page: 1



Scale = 1:62.7

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
	25.0	Plate Grip DOL	1.15	TC.	0.54	Vert(LL)	-0.21	10-12			MT20	197/144
TCLL (roof)				-		- (/					-	
TCDL		Lumber DOL	1.15	BC	0.85	Vert(CT)		10-12	>855	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.12	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.14	10-12	>999	240	Weight: 119 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 *Except* 14-2:2x4 SPF No.2, WEBS

9-7:2x6 SP DSS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-15 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-4-3 oc

bracing.

WEBS 1 Row at midpt 3-12, 6-9, 5-12 REACTIONS (size) 9=0-3-8, 14=0-3-8

Max Horiz 14=-86 (LC 13)

Max Uplift 9=-264 (LC 5), 14=-299 (LC 4)

Max Grav 9=1542 (LC 1), 14=1613 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/45, 2-3=-2922/402, 3-4=-2221/326,

4-5=-2194/318, 5-6=-3029/439,

6-7=-1160/227, 7-8=0/24, 2-14=-1527/341,

7-9=-678/206

BOT CHORD 13-14=-176/516. 12-13=-356/2686. 10-12=-286/2640, 9-10=-386/2930

3-13=-58/184, 3-12=-814/244, 4-12=-59/887,

2-13=-235/2179, 6-9=-2062/259 5-12=-799/243, 5-10=-4/389, 6-10=-184/155

NOTES

WFBS

- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 299 lb uplift at joint 14 and 264 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



August 19,2022



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

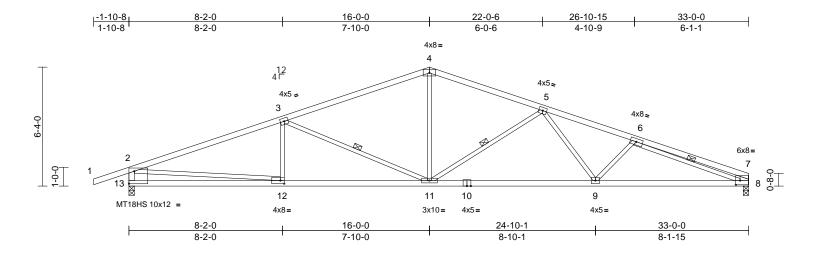
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type	Qty	Ply	Lot 187 HM	
Common	1	1	Job Reference (optional)	153722124

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:08 ID:1m2?IAOOIx2OBqx59QG3Ifz4SeC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.3

Plate Offsets (X, Y): [7:0-2-12,0-2-12], [12:0-2-8,0-2-0], [13:Edge,0-8-0]

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	0.55	Vert(LL)	-0.22	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.49	9-11	>802	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.12	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	9-11	>999	240	Weight: 118 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 4-7:2x4 SPF

No.2

BOT CHORD 2x4 SPF No.2

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

8-7:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-0-13 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-11-11 oc

bracing.

WEBS 1 Row at midpt 3-11, 5-11, 6-8

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

Max Horiz 13=90 (LC 8)

Max Uplift 8=-217 (LC 5), 13=-299 (LC 4) Max Grav 8=1464 (LC 1), 13=1614 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-3=-2926/403, 3-4=-2224/328,

4-5=-2197/319, 5-6=-3051/447,

6-7=-846/153, 2-13=-1528/341, 7-8=-464/126

BOT CHORD 12-13=-182/516, 11-12=-365/2690,

9-11=-308/2645, 8-9=-419/2969 **WEBS** 3-12=-58/184, 3-11=-817/245, 4-11=-59/890,

5-11=-798/243, 5-9=-10/400, 6-9=-212/162,

2-12=-237/2183, 6-8=-2412/341

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
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 299 lb uplift at joint 13 and 217 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.

LOAD CASE(S) Standard



August 19,2022



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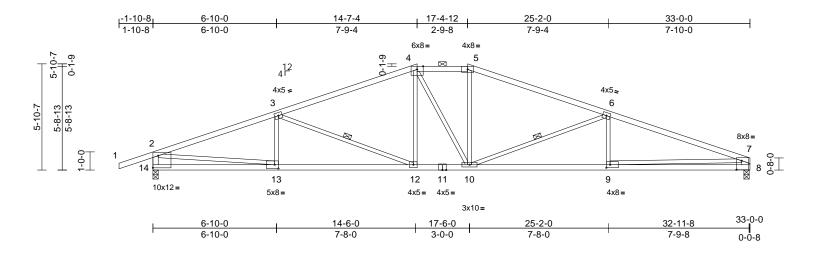
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type	Qty	Ply	Lot 187 HM	
Hip	1	1	Job Reference (optional)	153722125

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:08 ID:1m2?IAOOIx2OBqx59QG3Ifz4SeC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:63.7

Plate Offsets (X, Y): [7:0-3-8,0-6-0], [9:0-2-8,0-2-0], [13:0-2-8,0-2-8], [14:Edge,0-8-0]

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	0.68	Vert(LL)	-0.21	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.43	9-10	>903	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.15	9-10	>999	240	Weight: 122 lb	FT = 10%

LUMBER

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

No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 14-2:2x4 SPF No.2,

8-7:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-6-12 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-1 max.): 4-5

BOT CHORD Rigid ceiling directly applied or 9-0-2 oc

bracing.

WEBS 1 Row at midpt 3-12, 6-10

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

Max Horiz 14=81 (LC 8)

Max Uplift 8=-226 (LC 5), 14=-309 (LC 4) Max Grav 8=1464 (LC 1), 14=1614 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-3=-2927/427, 3-4=-2380/355,

4-5=-2194/389, 5-6=-2408/374,

6-7=-3252/498, 2-14=-1542/340

7-8=-1379/264

BOT CHORD 13-14=-122/339, 12-13=-394/2707,

10-12=-220/2171, 9-10=-419/3010,

8-9=-152/845

WEBS 3-13=-130/135, 3-12=-646/213,

4-12=-17/346, 4-10=-197/270, 5-10=-26/393,

6-10=-913/259, 6-9=0/237, 2-13=-320/2384,

7-9=-268/2169

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 4) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 309 lb uplift at joint 14 and 226 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



August 19,2022



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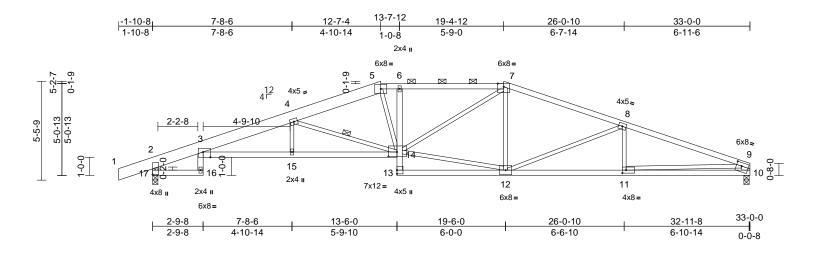
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type	Qty	Ply	Lot 187 HM	
Hip	1	1	Job Reference (optional)	153722126

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:09 ID:kQ6MqnJ?yoAOslvIFSeQWBz4SeJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:63.6

Plate Offsets (X, Y): [3:0-4-12,Edge], [9:0-3-8,0-2-4], [11:0-2-8,0-2-0], [14:0-5-12,0-3-0]

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)	-0.39	14-15	>991	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.73	14-15	>533	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.42	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.30	14-15	>999	240	Weight: 152 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 1-5:2x8 SP DSS 2x4 SPF No.2 *Except* 3-14:2x4 SPF 2100F BOT CHORD

1.8E

WEBS 2x3 SPF No.2 *Except* 17-2:2x4 SPF No.2,

10-9:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc 8-8-0 oc bracing: 11-12.

bracing, Except:

WEBS 4-14 1 Row at midpt

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

Max Horiz 17=77 (LC 8)

Max Uplift 10=-238 (LC 5), 17=-322 (LC 4)

Max Grav 10=1464 (LC 1), 17=1614 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/45, 2-3=-484/109, 3-4=-4238/650,

4-5=-3086/486, 5-6=-3083/516, 6-7=-3060/521, 7-8=-2633/443,

8-9=-3249/531, 2-17=-1616/346 9-10=-1381/272

BOT CHORD 16-17=-2/19, 3-16=0/69, 3-15=-619/4182,

14-15=-615/4167, 13-14=0/106, 6-14=-329/149, 12-13=-16/190, 11-12=-457/3014, 10-11=-138/752

WEBS 4-15=-174/119, 4-14=-1389/278, 5-14=-143/844, 12-14=-266/2273,

7-14=-171/856, 7-12=-98/158, 8-12=-669/220, 8-11=-40/162,

9-11=-320/2267

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 322 lb uplift at joint 17 and 238 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



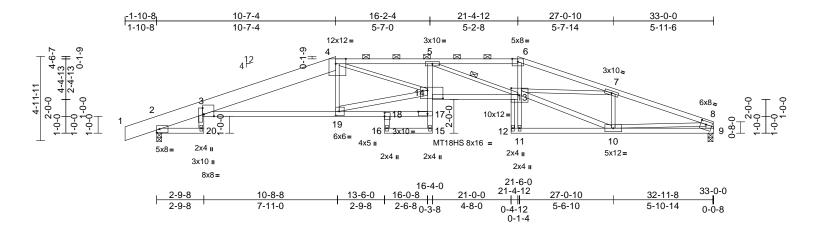




Truss Type	Qty	Ply	Lot 187 HM	
Hip	1	1	Job Reference (optional)	153722127

ID:Ccgk17Kdj5IFTvUxp9Af3Oz4SeI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:09



Scale = 1:68.3

Plate Offsets (X, Y): [3:0-7-2,Edge], [3:0-4-7,0-0-14], [4:0-7-4,Edge], [8:0-3-12,0-2-4], [13:0-4-12,0-4-8], [14:0-11-0,0-5-12], [17:0-6-8,0-1-8], [18:0-2-8,Edge], [19:0-2-8,0-3-0]

												<u> </u>	
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)	-0.65	13-14	>604	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-1.17	13-14	>335	240	MT18HS	197/144	
BCLL	0.0*	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.58	9	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.48	13-14	>814	240	Weight: 165 lb	FT = 10%	

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 1-4:2x10 SP

DSS

BOT CHORD 2x4 SPF No.2 *Except* 3-17,14-13:2x4 SPF 2100F 1.8E. 13-12:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 19-14,10-13:2x4 SPF

No.2, 9-8:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-10-4 oc purlins, except end verticals, and 2-0-0 oc purlins (2-6-3 max.): 4-6.

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

bracing, Except:

6-0-0 oc bracing: 15-16,12-13

8-4-8 oc bracing: 13-14. WEBS 1 Row at midpt 5-13

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

Max Horiz 2=79 (LC 12)

Max Uplift 2=-333 (LC 4), 9=-248 (LC 5)

Max Grav 2=1615 (LC 1), 9=1465 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/12 2-3=-687/122 3-4=-3648/561

4-5=-6260/985, 5-6=-5056/833,

6-7=-5221/838, 7-8=-3238/552,

8-9=-1386/274

BOT CHORD 2-20=0/10, 3-20=0/60, 3-19=-489/3503

> 15-16=-78/22, 15-17=0/60, 14-17=0/90, 5-14=0/322, 13-14=-890/6467, 12-13=-251/0,

WEBS

5-13=-1659/325, 11-13=0/388, 6-13=-124/1288, 7-10=-1102/275,

7-13=-258/1900, 4-14=-499/2920

18-19=-72/433, 17-18=-94/511, 16-18=0/41,

11-12=-3/30, 10-11=-1/94, 9-10=-131/704 4-19=-701/211, 14-19=-418/3122,

8-10=-355/2314, 10-13=-511/3082,

this design.

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

Unbalanced roof live loads have been considered for

Provide adequate drainage to prevent water ponding.

All plates are MT20 plates unless otherwise indicated.

The Fabrication Tolerance at joint 13 = 6%

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

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 333 lb uplift at joint 2 and 248 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.

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



Page: 1

August 19,2022

NOTES

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Truss Type	Qty	Ply	Lot 187 HM	
Hip	1	1	Job Reference (optional)	153722128

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Wed Aug 17 14:50:10 ID:Ccgk17Kdj5IFTvUxp9Af3Oz4SeI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

23-6-0

5-0-10

-1-10-8 8-7-4 13-7-12 18-5-6 23-4-12 33-0-0 1-10-8 8-7-4 5-0-8 4-9-10 4-11-6 9-7-4 8x8= 4×5 = 3x10= 6x8= 412 5 6 Ø ∇ \bowtie 13 4x5= 10 9 5x8= 2x4 ı 4x5 II 4x8= 8x8= 2x4 II 3x10 ı MT18HS 9x12 =

18-5-6

4-11-6

13-6-0

4-9-8

Scale = 1:63.6

Plate Offsets (X, Y): [3:0-7-2,Edge], [3:0-4-7,0-0-14], [6:0-2-8,0-1-8], [8:Edge,0-1-2], [12:0-9-0,0-4-8]

8x8=

8-8-8

5-11-0

2-9-8

2-9-8

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	1./4	PLATES	GRIP
-	\(\(\mathrea{\pi}\)	-	2-0-0				111	(IUC)			_	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.46	11	>862	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.82	12-13	>478	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.35	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.35	11	>999	240	Weight: 147 lb	FT = 10%

TOP CHORD 2x10 SP DSS *Except* 4-7:2x4 SPF No.2,

7-8:2x6 SPF 1650F 1.4E

BOT CHORD 2x4 SPF No.2 *Except* 3-12,11-8:2x4 SPF

2100F 1 8F

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-2-10 oc purlins, except

2-0-0 oc purlins (2-2-0 max.): 4-7. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

8-10-5 oc bracing: 12-13. WEBS 1 Row at midpt 5-13

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

Max Horiz 2=66 (LC 8)

Max Uplift 2=-343 (LC 4), 8=-258 (LC 5)

Max Grav 2=1618 (LC 1), 8=1468 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension 1-2=0/12, 2-3=-688/145, 3-4=-4034/665,

4-5=-3939/689, 5-6=-5004/872,

6-7=-3458/650, 7-8=-3225/542 **BOT CHORD**

2-14=0/10, 3-14=0/60, 3-13=-598/3928,

12-13=-795/5114, 11-12=0/108, 5-12=0/336, 10-11=-42/307, 9-10=-423/2942,

8-9=-420/2948

WEBS 4-13=-14/446, 5-13=-1417/300,

10-12=-483/3243, 6-12=-294/1711,

6-10=-1096/270, 7-9=0/357, 7-10=-181/803

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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 258 lb uplift at joint 8 and 343 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.
- 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



August 19,2022

Page: 1

33-0-0

0-0-8

32-11-8

9-5-8



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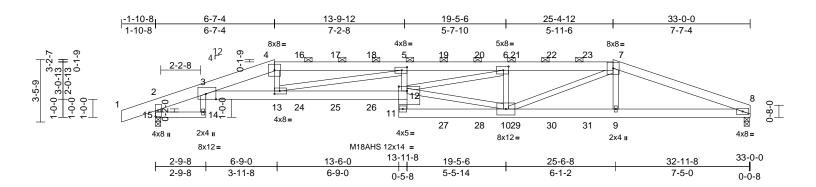


Ply Truss Type Qtv Lot 187 HM Hip Girder 2 Job Reference (optional)

> Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Wed Aug 17 14:50:10 ID:8?oUSpLtEjYzjDdKwaC78pz4SeG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

153722129



Scale = 1:63.9

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

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	0.92	Vert(LL)	-0.62	12-13	>632	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-1.13	12-13	>347	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.44	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.52	12-13	>749	240	Weight: 356 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SPF No.2 *Except* 1-4:2x8 SP DSS 2x4 SPF No.2 *Except* 3-12:2x6 SP DSS, BOT CHORD

12-11.11-8:2x6 SPF No.2

WEBS 2x4 SPF No.2

BRACING

BOT CHORD

Structural wood sheathing directly applied or TOP CHORD 4-7-1 oc purlins, except end verticals, and

> 2-0-0 oc purlins (3-3-12 max.): 4-7. Rigid ceiling directly applied or 10-0-0 oc

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

Max Horiz 15=41 (LC 8) 8=-558 (LC 5), 15=-641 (LC 4) Max Uplift

Max Grav 8=2761 (LC 1), 15=2956 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/45, 2-3=-928/220, 3-4=-10663/2060,

4-5=-10643/2075, 5-6=-14333/2834, 6-7=-9380/1910, 7-8=-7340/1484,

2-15=-2988/669

BOT CHORD 14-15=-5/35, 3-14=0/90, 3-13=-1995/10521,

12-13=-2753/14341, 11-12=0/228,

10-11=-326/1514, 9-10=-1328/6804 8-9=-1330/6847

10-12=-1498/7980, 6-12=-1013/5151,

6-10=-2388/677, 7-10=-584/2970,

7-9=-36/788, 4-13=-158/1419,

5-13=-3941/858, 5-12=0/378

NOTES

WFBS

1) 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: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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 3) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 558 lb uplift at joint 8 and 641 lb uplift at joint 15.
- 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) 136 lb down and 70 lb up at 8-0-0, 136 lb down and 70 lb up at 10-0-0, 136 lb down and 70 lb up at 12-0-0, 146 lb down and 85 lb up at 14-0-0, 146 lb down and 85 lb up at 16-0-0, 146 lb down and 85 lb up at 18-0-0, 146 lb down and 85 lb up at 20-0-0, and 146 lb down and 85 lb up at 22-0-0, and 146 lb down and 85 lb up at 24-0-0 on top chord, and 501 lb down and 137 lb up at 6-7-4, 63 lb down at 8-0-0, 63 lb down at 10-0-0, 63 lb down at 12-0-0, 79 lb down at 13-8-12, 79 lb down at 16-0-0, 79 lb down at 18-0-0, 79 lb down at 20-0-0, 79 lb down at 22-0-0, and 79 lb down at 24-0-0, and 551 lb down and 142 lb up at 25-4-12 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, 2-3=-70, 3-4=-70, 4-7=-70, 7-8=-70, 14-15=-20, 3-12=-20, 8-11=-20

Concentrated Loads (lb)



August 19,2022

Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



NOTED ON PLANS REVIEW DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Wheeler Limber, Wavely, KS 26871
06/23/2023 4:37:22 Vert: 12=-52 (B), 9=-551 (B), 13=-501 (B), 5=-123 (B), 16=-113 (B), 17=-113 (B), 18=-113 (B), 19=-123 (B), 20=-123 (B), 21=-123 (B), 22=-123 (B), 23=-123 (B), 24=-63 (B), 25=-63 (B), 26=-63 (B), 27=-52 (B), 28=-52 (B), 29=-52 (B), 30=-52 (B), 31=-52 (B)

Truss Type Qty Hip Girder

Ply 2 Job Reference (optional)

Lot 187 HM

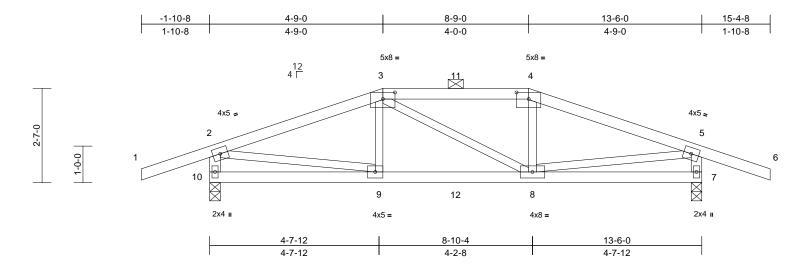
153722129

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:10 ID:8?oUSpLtEjYzjDdKwaC78pz4SeG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

Truss Type	Qty	Ply	Lot 187 HM	
Hip Girder	1	1	Job Reference (optional)	153722130

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:11 ID:VybNWWP03FAFp_WHj7oIrtz4SeB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:31.6

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

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	0.46	Vert(LL)	-0.05	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.09	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	8-9	>999	240	Weight: 51 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

Structural wood sheathing directly applied or TOP CHORD 4-5-3 oc purlins, except end verticals, and

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

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

REACTIONS (size) 7=0-3-8, 10=0-3-8 Max Horiz 10=-16 (LC 31)

Max Uplift 7=-288 (LC 5), 10=-288 (LC 4)

Max Grav 7=1064 (LC 1), 10=1064 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/45, 2-3=-1537/332, 3-4=-1396/337, TOP CHORD

4-5=-1537/332, 5-6=0/45, 2-10=-1012/309,

5-7=-1012/309

9-10=-42/133, 8-9=-264/1395, 7-8=-29/126 BOT CHORD WEBS

3-9=0/219, 3-8=-61/62, 4-8=0/219, 2-9=-265/1291, 5-8=-264/1292

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 288 lb uplift at joint 10 and 288 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
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 90 lb down and 64 lb up at 4-9-0, and 90 lb down and 62 lb up at 6-9-0, and 90 lb down and 64 lb up at 8-9-0 on top chord, and 228 lb down and 50 lb up at 4-9-0, and 43 lb down at 6-9-0, and 228 lb down and 50 lb up at 8-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

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: 4=-59 (F), 9=-228 (F), 8=-228 (F), 3=-59 (F), 11=-59 (F), 12=-24 (F)



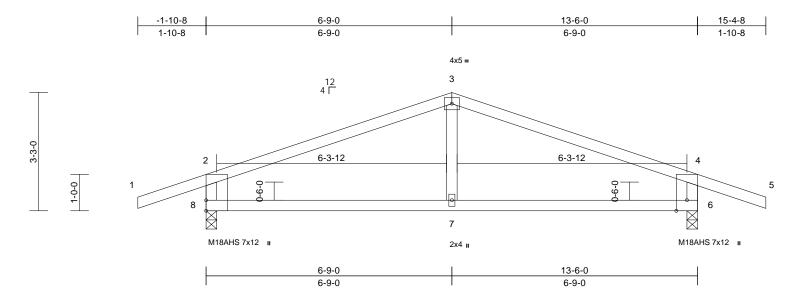




Ply Qty Truss Type Lot 187 HM 153722131 Common 2 Job Reference (optional)

> Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:12

Page: 1



Scale = 1:31.6

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	0.81	Vert(LL)	-0.09	7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.17	7	>933	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.04	7-8	>999	240	Weight: 41 lb	FT = 10%

LUMBER

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

2x4 SPF 2100F 1.8E *Except* 7-3:2x4 SPF WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-1-14 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=25 (LC 12)

Max Uplift 6=-176 (LC 5), 8=-176 (LC 4)

Max Grav 6=736 (LC 1), 8=736 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=0/45, 2-3=-757/98, 3-4=-757/98, TOP CHORD

4-5=0/45, 2-8=-644/214, 4-6=-644/214

BOT CHORD 7-8=-22/631, 6-7=-22/631

WEBS 3-7=0/245

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
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 8 and 176 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



August 19,2022



Truss Type Jack-Closed Supported Gable Qty

Ply Lot 187 HM

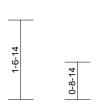
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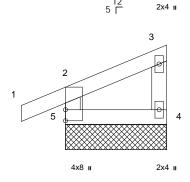
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Job Reference (optional)

Page: 1

ĺ	-0-10-8	2-0-0
	0-10-8	2-0-0





2-0-0

Scale	a = 1	.22 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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
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							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 2-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4=2-0-0, 5=2-0-0

Max Horiz 5=59 (LC 5)

Max Uplift 4=-20 (LC 5), 5=-43 (LC 4) Max Grav 4=56 (LC 1), 5=170 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 2-5=-150/53, 1-2=0/27, 2-3=-42/9, 3-4=-41/23

BOT CHORD 4-5=-20/13

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 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.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 5 and 20 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



August 19,2022



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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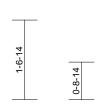
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

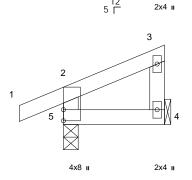


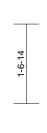
Truss Type	Qty	Ply	Lot 187 HM	
Jack-Closed	5	1	Job Reference (optional)	153722133

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Wed Aug 17 14:50:12 ID:cwqR5L9r0oXEoIPF?DwNURz4SeW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

-0-10-8	2-0-0
0-10-8	2-0-0







2-0-0

Scal	le =	1.22	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	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	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: 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 2-0-0 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=59 (LC 7)

Max Uplift 4=-20 (LC 5), 5=-43 (LC 4) Max Grav 4=56 (LC 1), 5=170 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 2-5=-150/53, 1-2=0/27, 2-3=-42/9, 3-4=-41/23

BOT CHORD 4-5=-20/13

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.
- 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 20 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



August 19,2022



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

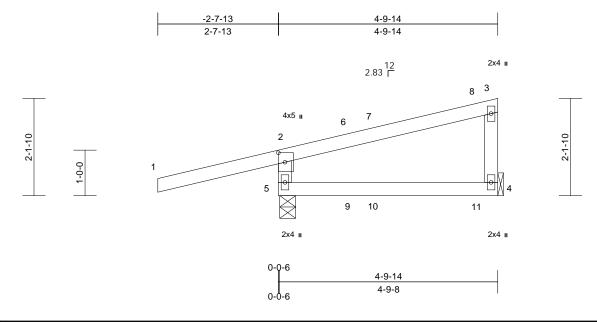


16023 Swingley Ridge Rd Chesterfield, MO 63017

Truss Type	Qty	Ply	Lot 187 HM	
Diagonal Hip Girder	1	1	Job Reference (optional)	153722134

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Page: 1



Scale = 1:25.3

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

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	0.63	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	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)	-0.01	4-5	>999	240	Weight: 17 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 4-9-14 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 5=87 (LC 7)

Max Uplift 4=-47 (LC 5), 5=-196 (LC 4) Max Grav 4=157 (LC 15), 5=409 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-372/203, 1-2=0/45, 2-3=-93/43, 3-4=-110/64

BOT CHORD 4-5=-36/73

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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 5 and 47 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.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 106 lb down and 198 lb up at 1-6-5, and 70 lb down and 39 lb up at 2-1-0, and 58 lb down and 39 lb up at 4-4-4 on top chord, and 0 lb down and 57 lb up at 1-6-5, and 5 lb down at 2-1-0, and 17 lb down at 4-4-4 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, 4-5=-20

Concentrated Loads (lb)

Vert: 6=45 (B), 8=-1 (B), 9=30 (B), 10=-1 (F), 11=0



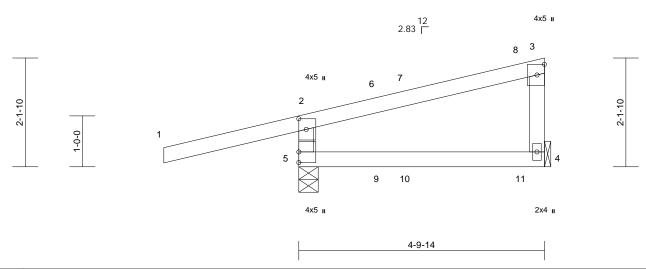


Ply Qty Truss Type Lot 187 HM 153722135 Diagonal Hip Girder Job Reference (optional)

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Page: 1





Scale = 1:22.6

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

							-					
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)	0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	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: 17 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 4-9-14 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-4-9

Max Horiz 5=87 (LC 5)

Max Uplift 4=-41 (LC 5), 5=-181 (LC 4)

Max Grav 4=156 (LC 15), 5=389 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-350/187, 1-2=0/45, 2-3=-91/99,

3-4=-106/60

BOT CHORD 4-5=-73/76

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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 181 lb uplift at joint 5 and 41 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.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 106 lb down and 198 lb up at 1-6-5, and 75 lb down and 140 lb up at 2-1-0, and 58 lb down and 39 lb up at 4-4-4 on top chord, and 0 lb down and 57 lb up at 1-6-5, and 15 lb down and 21 lb up at 2-1-0, and 17 lb down at 4-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + 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=45 (F), 7=35 (B), 8=-1 (F), 9=30 (F), 11=0 (F)



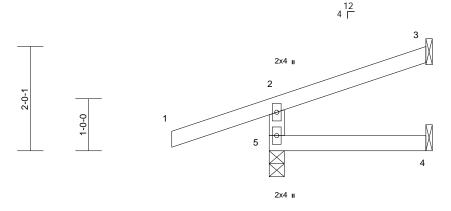


Truss Type	Qty	Ply	Lot 187 HM	
Jack-Open	2	1	Job Reference (optional)	153722136

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Wed Aug 17 14:50:13 ID:cwqR5L9r0oXEoIPF?DwNURz4SeW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

2-0-1





3-0-3

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	0.28	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 3-0-3 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=-36 (LC 8), 5=-120 (LC 4) Max Grav 3=60 (LC 1), 4=48 (LC 3), 5=319

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-278/139, 1-2=0/45, 2-3=-43/13

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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 5 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.

LOAD CASE(S) Standard

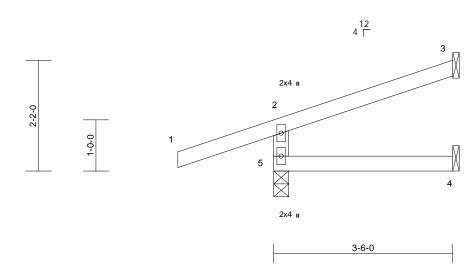




Qty Truss Type Ply Lot 187 HM 153722137 Jack-Open 15 Job Reference (optional)

> Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:13

-1-10-8	3-6-0
1-10-8	3-6-0



Scale = 1:22.5

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	0.28	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

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

3-6-0 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=69 (LC 4)

Max Uplift 3=-45 (LC 8), 5=-119 (LC 4) Max Grav

3=80 (LC 1), 4=58 (LC 3), 5=333

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-291/143, 1-2=0/45, 2-3=-48/18

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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 5 and 45 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



Page: 1



Truss Type	Qty	Ply	Lot 187 HM	
Jack-Open	2	1	Job Reference (optional)	153722138

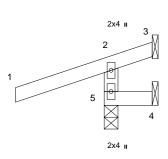
Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Wed Aug 17 14:50:14

Page: 1

-1-10-8	1-0-3
1-10-8	1-0-3









1-0-3

Scale = 1:24.4

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	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	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: 5 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 1-0-3 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=39 (LC 5)

3=-99 (LC 1), 4=-29 (LC 1), 5=-169 Max Uplift

(LC 4)

Max Grav 3=56 (LC 4), 4=13 (LC 4), 5=347

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-5=-300/167, 1-2=0/45, 2-3=-50/18

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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 169 lb uplift at joint 5, 29 lb uplift at joint 4 and 99 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.

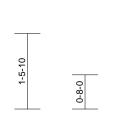


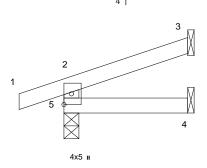


Truss Type	Qty	Ply	Lot 187 HM	
Jack-Open	1	1	Job Reference (optional)	153722139

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-0-10-8	2-4-15
0-10-8	2-4-15







Page: 1

Scale = 1:22.5

2-4-15

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	0.07	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	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 2-4-15 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=42 (LC 4)

Max Uplift 3=-32 (LC 8), 5=-60 (LC 4) Max Grav

3=62 (LC 1), 4=40 (LC 3), 5=187

FORCES (lb) - Maximum Compression/Maximum

Tension

2-5=-164/78, 1-2=0/23, 2-3=-31/15

BOT CHORD 4-5=0/0

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
- 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) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 5 and 32 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



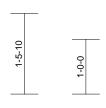
August 19,2022

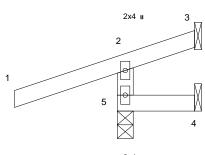
MiTek

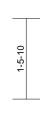
Truss Type	Qty	Ply	Lot 187 HM	
Jack-Open	1	1	Job Reference (optional)	I53722140

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Wed Aug 17 14:50:14

-1-10-8	1-4-15
1-10-8	1-4-15







Page: 1

2x4 II

1-4-15

Scale = 1:21

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: 6 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 1-4-15 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=43 (LC 5)

3=-41 (LC 1), 4=-17 (LC 1), 5=-144 Max Uplift

(LC 4)

Max Grav 3=24 (LC 4), 4=15 (LC 3), 5=312

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-5=-270/145, 1-2=0/45, 2-3=-41/7

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.
- 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, 17 lb uplift at joint 4 and 41 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.





NOTED ON PLANS REVIEW EXELOPMENT SERVICES SUMMIT, MISSOURI Lumber Waverly, KS - 66871. 3/2023 4:37:26

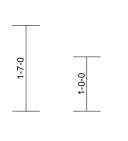
Ply Qty Truss Type Lot 187 HM 153722141 Diagonal Hip Girder Job Reference (optional)

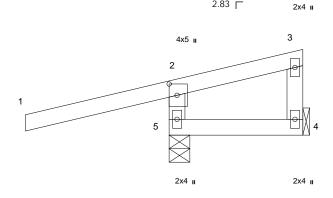
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Page: 1









2-5-10

Scale = 1:21.3

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

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	0.63	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		
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: 11 lb	FT = 10%

LOAD CASE(S) Standard

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

BRACING

LUMBER

TOP CHORD Structural wood sheathing directly applied or

2-5-10 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 5=0-4-9

Max Horiz 5=77 (LC 7)

Max Uplift 4=-28 (LC 1), 5=-207 (LC 4) Max Grav 4=52 (LC 4), 5=420 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

2-5=-368/205, 1-2=0/45, 2-3=-23/46,

3-4=-24/20

4-5=-52/46

BOT CHORD NOTES

TOP CHORD

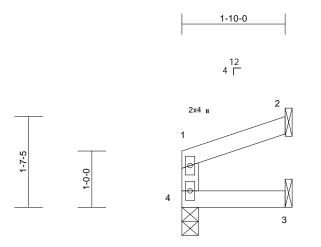
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 207 lb uplift at joint 5 and 28 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.





Truss Type	Qty	Ply	Lot 187 HM	
Jack-Open	1	1	Job Reference (optional)	153722142

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1-10-0

Scale = 1:20.5

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	0.04	Vert(LL)	0.00	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	3-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	3-4	>999	240	Weight: 5 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 1-10-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2= Mechanical, 3= Mechanical,

4=0-3-8

Max Horiz 4=32 (LC 5)

Max Uplift 2=-29 (LC 8), 4=-3 (LC 4) Max Grav 2=55 (LC 1), 3=32 (LC 3), 4=75

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-62/19, 1-2=-22/14

BOT CHORD 3-4=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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 4 and 29 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

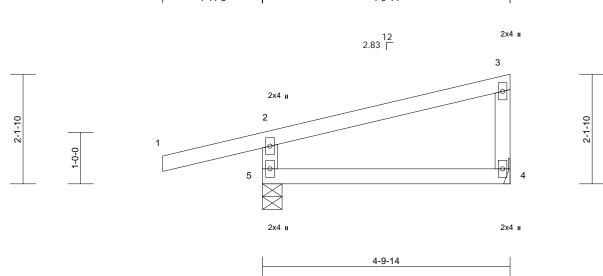




Truss Type	Qty	Ply	Lot 187 HM	
Diagonal Hip Girder	1	1	Job Reference (optional)	153722143

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Wed Aug 17 14:50:15 ID:gXihhf7bUBHWZRFstotvP0z4SeY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-1-11-5 4-9-14 1-11-5 4-9-14



Scale = 1:22.5

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	0.34	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.03	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: 16 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 4-9-14 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=84 (LC 7)

Max Uplift 4=-33 (LC 8), 5=-141 (LC 4) Max Grav 4=170 (LC 1), 5=384 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-339/168, 1-2=0/34, 2-3=-83/14,

3-4=-125/57 **BOT CHORD** 4-5=-24/35

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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 5 and 33 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



August 19,2022



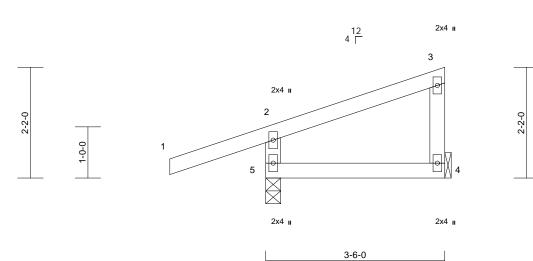
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Ply Qty Truss Type Lot 187 HM 153722144 Jack-Closed Job Reference (optional)

> Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:15

Page: 1





Scale = 1:22.5

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	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	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%

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 3-6-0 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=91 (LC 5)

Max Uplift 4=-24 (LC 5), 5=-130 (LC 4) Max Grav 4=100 (LC 1), 5=330 (LC 1)

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

Tension

2-5=-292/148, 1-2=0/45, 2-3=-64/12, TOP CHORD 3-4=-75/38

4-5=-27/21

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.
- 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 5 and 24 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

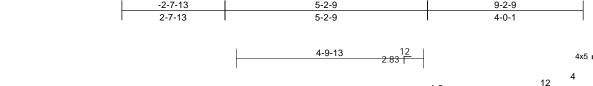


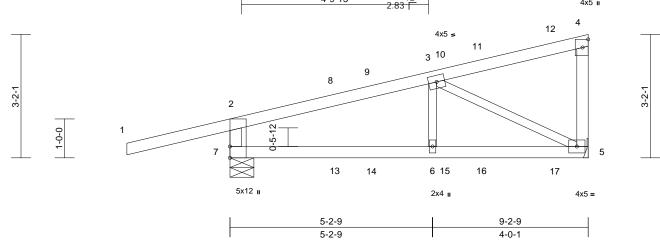


Qty Truss Type Ply Lot 187 HM 153722145 Diagonal Hip Girder 2 Job Reference (optional)

> Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:15 ID:ZJyCW0A5XPny13Zd6eyrZsz4SeU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:29.6

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	0.84	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.09	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	5-6	>999	240	Weight: 33 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 3-6,5-3:2x3 SPF 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) 5= Mechanical, 7=0-7-6

Max Horiz 7=131 (LC 5)

Max Uplift 5=-116 (LC 8), 7=-212 (LC 4)

Max Grav 5=516 (LC 1), 7=645 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-553/227, 1-2=0/45, 2-3=-539/89,

3-4=-109/30, 4-5=-224/99 **BOT CHORD** 6-7=-118/450, 5-6=-118/450

WEBS 3-6=0/192, 3-5=-454/114

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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 7 and 116 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.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 73 lb up at 2-8-7, 70 lb down and 28 lb up at 3-7-12, 87 lb down and 58 lb up at 5-6-6, and 98 lb down and 67 lb up at 6-5-11, and 120 lb down and 79 lb up at 8-4-5 on top chord, and 12 lb down and 16 lb up at 2-8-7, 8 lb down and 8 lb up at 3-7-12, 19 lb down at 5-6-6, and 26 lb down at 6-5-11, and 62 lb down at 8-4-5 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, 2-4=-70, 5-7=-20

Concentrated Loads (lb)

Vert: 10=-1 (B), 11=-21 (F), 12=-93 (B), 14=8 (F),

15=-2 (B), 16=-12 (F), 17=-40 (B)

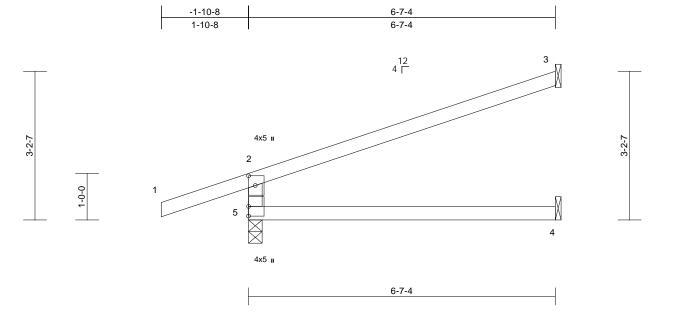


August 19,2022



Truss Type	Qty	Ply	Lot 187 HM	
Jack-Open	15	1	Job Reference (optional)	153722146

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Wed Aug 17 14:50:16 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:24.8 Plate Offsets (X, Y): [2:0-2-8,0-1-12]

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	0.61	Vert(LL)	-0.08	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.17	4-5	>461	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.06	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.06	4-5	>999	240	Weight: 18 lb	FT = 10%

LOAD CASE(S) Standard

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 6-0-0 oc purlins, except end verticals.

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

bracing.

3= Mechanical, 4= Mechanical, REACTIONS (size)

5=0-3-8

Max Horiz 5=111 (LC 4)

Max Uplift 3=-92 (LC 8), 5=-127 (LC 4) Max Grav 3=193 (LC 1), 4=119 (LC 3), 5=452

(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-396/181, 1-2=0/45, 2-3=-87/47

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.
- 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 92 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.

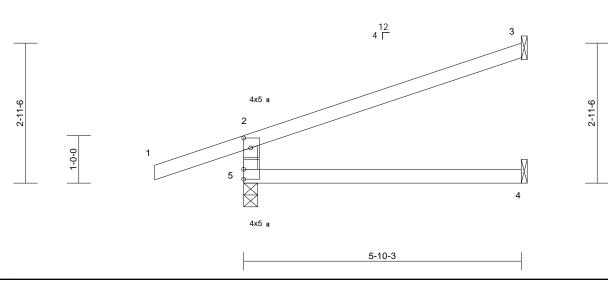




Truss Type	Qty	Ply	Lot 187 HM	
Jack-Open	3	1	Job Reference (optional)	153722147

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Scale = 1:24.3

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

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	0.45	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.10	4-5	>681	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	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%

LOAD CASE(S) Standard

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 5-10-3 oc purlins, except end verticals.

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

bracing.

3= Mechanical, 4= Mechanical, REACTIONS (size)

5=0-3-8

Max Horiz 5=101 (LC 4)

Max Uplift 3=-81 (LC 8), 5=-123 (LC 4) 3=168 (LC 1), 4=104 (LC 3), 5=421 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-369/171, 1-2=0/45, 2-3=-77/40

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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 5 and 81 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.

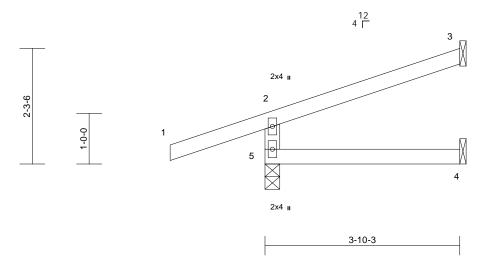




Truss Type	Qty	Ply	Lot 187 HM	
Jack-Open	3	1	Job Reference (optional)	153722148

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Wed Aug 17 14:50:16 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:22.8

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	0.11	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)	0.00	4-5	>999	240	Weight: 12 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 3-10-3 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 4)

Max Uplift 3=-50 (LC 8), 5=-119 (LC 4) Max Grav 3=95 (LC 1), 4=65 (LC 3), 5=345

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-302/146, 1-2=0/45, 2-3=-52/22

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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 5 and 50 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

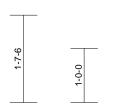


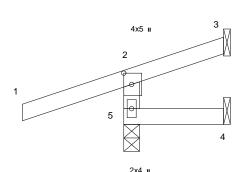


Truss Type	Qty	Ply	Lot 187 HM	
Jack-Open	4	1	Job Reference (optional)	153722149

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1-10-3

Scale = 1:21.3

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

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	0.28	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)	-0.01	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 1-10-3 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=47 (LC 4)

Max Uplift 3=-12 (LC 8), 4=-6 (LC 1), 5=-131

(LC 4)

3=4 (LC 19), 4=25 (LC 3), 5=302 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-262/137, 1-2=0/45, 2-3=-38/1

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.
- 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 5, 6 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



August 19,2022



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

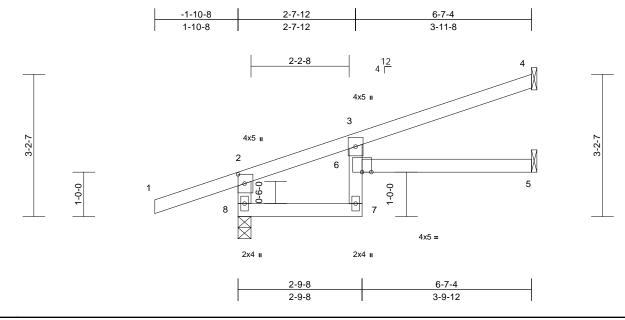
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type	Qty	Ply	Lot 187 HM	
Jack-Open	3	1	Joh Reference (optional)	153722150

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Scale = 1:25.9

Plate Offsets	(X,	Y):	[2:0-2-8,0-1-12]
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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)	-0.10	5-6	>782	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.18	5-6	>420	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)	0.11	5-6	>719	240	Weight: 20 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 6-0-0 oc purlins, except end verticals.

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

bracing.

4= Mechanical, 5= Mechanical, REACTIONS (size)

8=0-3-8

Max Horiz 8=111 (LC 4)

Max Uplift 4=-75 (LC 8), 8=-127 (LC 4) 4=183 (LC 1), 5=103 (LC 3), 8=452 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-8=-404/145, 1-2=0/45, 2-3=-211/11,

3-4=-37/49

BOT CHORD 7-8=-70/135, 6-7=0/41, 3-6=-3/94, 5-6=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.
- 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 8 and 75 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



August 19,2022

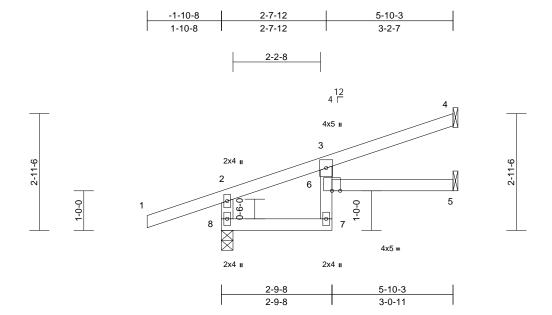


NOTED ON PLANS REVIEW EXELOPMENT SERVICES SUMMIT, MISSOURI Lumber Waverly, KS - 66871 3/2023 4:37:28

Qty Ply Truss Type Lot 187 HM 153722151 Jack-Open Job Reference (optional)

> Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:17 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29.1

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	0.35	Vert(LL)	-0.06	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.10	5-6	>654	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.06	5-6	>999	240	Weight: 18 lb	FT = 10%

LOAD CASE(S) Standard

LUMBER TOP CHORD

2x4 SPF No.2 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 WEBS

BRACING Structural wood sheathing directly applied or TOP CHORD

5-10-3 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical,

8=0-3-8

Max Horiz 8=101 (LC 4)

Max Uplift 4=-63 (LC 8), 8=-123 (LC 4)

Max Grav 4=156 (LC 1), 5=88 (LC 3), 8=421

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-376/142, 1-2=0/45, 2-3=-171/6,

3-4=-31/42

BOT CHORD 7-8=-56/102, 6-7=0/42, 3-6=-5/79, 5-6=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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 8 and 63 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.



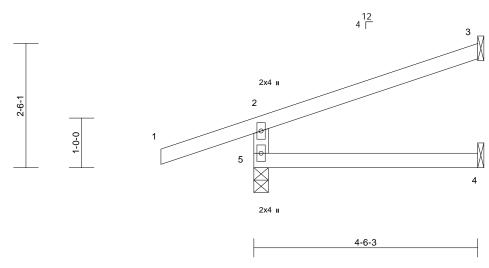
August 19,2022



Truss Type	Qty	Ply	Lot 187 HM	
Jack-Open	2	1	Job Reference (optional)	153722152

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:17 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:23.2

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	0.28	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.03	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: 14 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 4-6-3 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=83 (LC 4)

Max Uplift 3=-61 (LC 8), 5=-119 (LC 4)

Max Grav 3=120 (LC 1), 4=78 (LC 3), 5=368

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-323/154, 1-2=0/45, 2-3=-60/28

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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 5 and 61 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

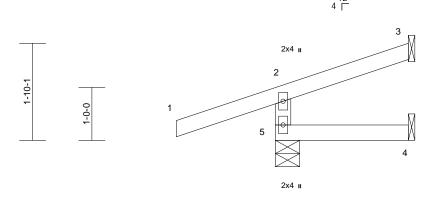




Truss Type	Qty	Ply	Lot 187 HM	
Jack-Open	3	1	Job Reference (optional)	153722153

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:17 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





2-6-3

Scale = 1:21.8

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)	-0.01	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 2-6-3 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=56 (LC 4)

Max Uplift 3=-27 (LC 8), 5=-123 (LC 4) Max Grav 3=35 (LC 1), 4=38 (LC 3), 5=307

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-268/136, 1-2=0/45, 2-3=-40/6

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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 5 and 27 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.

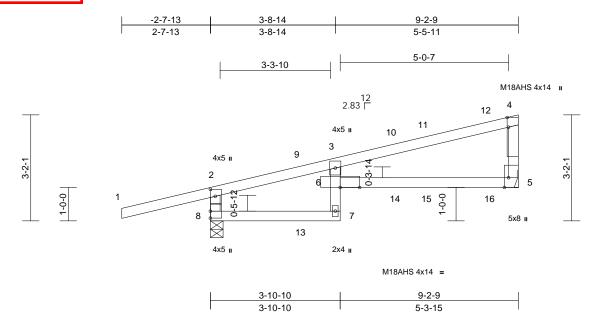
LOAD CASE(S) Standard





Ply Truss Type Qty Lot 187 HM 153722154 Diagonal Hip Girder Job Reference (optional)

> Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:18 ID:ZJyCW0A5XPny13Zd6eyrZsz4SeU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:34.5

Plate Offsets (X, Y): [2:0-2-8,0-1-12], [4:0-3-8,Edge], [5:0-3-8,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	0.65	Vert(LL)	-0.24	5-6	>450	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.44	5-6	>241	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.11	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.25	5-6	>434	240	Weight: 28 lb	FT = 10%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (size) 5= Mechanical, 8=0-4-9

Max Horiz 8=115 (LC 5)

Max Uplift 5=-120 (LC 8), 8=-219 (LC 4) Max Grav 5=529 (LC 1), 8=653 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-581/231, 1-2=0/45, 2-3=-449/75, 3-4=-299/59, 4-5=-321/119

BOT CHORD 7-8=-97/353, 6-7=-8/54, 3-6=-21/101,

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
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 8 and 120 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 73 lb up at 2-8-7, 70 lb down and 28 lb up at 3-7-12, 86 lb down and 40 lb up at 5-6-6, and 98 lb down and 50 lb up at 6-5-11, and 110 lb down and 63 lb up at 8-4-5 on top chord, and 12 lb down and 16 lb up at 2-8-7, 8 lb down and 8 lb up at 3-8-14, 21 lb down and 27 lb up at $\,$ 5-6-6, and 27 lb down and 23 lb up at 6-5-11, and 51 lb down at 8-4-5 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, 2-4=-70, 7-8=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 7=8 (F), 10=-5 (B), 11=-13 (F), 12=-81 (B), 14=-14 (B), 15=-25 (F), 16=-51 (B)

OF MISS SCOTT M. SEVIER NUMBER OFFISSIONAL STONAL PE-2001018807

Page: 1

August 19,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 chorembers 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

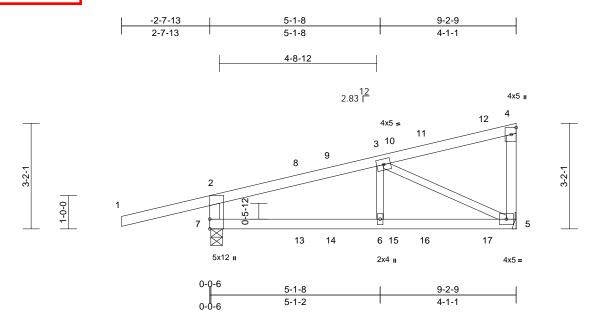
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type Qty Ply Lot 187 HM 153722155 Diagonal Hip Girder Job Reference (optional)

> Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:18 ID:1VWakMBjljvpfD8qgMT464z4SeT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.7

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	0.90	Vert(LL)	-0.06	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.11	5-6	>964	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	5-6	>999	240	Weight: 33 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 3-6,5-3:2x3 SPF WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-15 oc purlins, except end verticals.

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

bracing.

REACTIONS (size)

Max Horiz 7=131 (LC 5) Max Uplift 5=-126 (LC 5), 7=-217 (LC 4)

5= Mechanical, 7=0-4-3

Max Grav 5=579 (LC 1), 7=680 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

2-7=-577/230, 1-2=0/45, 2-3=-606/98,

3-4=-122/30, 4-5=-247/106 **BOT CHORD** 6-7=-148/515, 5-6=-148/515

WEBS 3-6=0/205, 3-5=-514/129

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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint 7 and 126 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.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 73 lb up at 2-8-7, 87 lb down and 58 lb up at 3-7-12, 87 lb down and 58 lb up at 5-6-6, and 116 lb down and 81 lb up at 6-5-11, and 120 lb down and 79 lb up at 8-4-5 on top chord, and 12 lb down and 16 lb up at 2-8-7, 18 lb down at 3-7-12, 19 lb down at 5-6-6, and 44 lb down at 6-5-11, and 62 lb down at 8-4-5 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, 2-4=-70, 5-7=-20

Concentrated Loads (lb)

Vert: 9=-3 (B), 10=-1 (F), 11=-71 (B), 12=-93 (F), 14=-9 (B), 15=-2 (F), 16=-40 (B), 17=-40 (F)

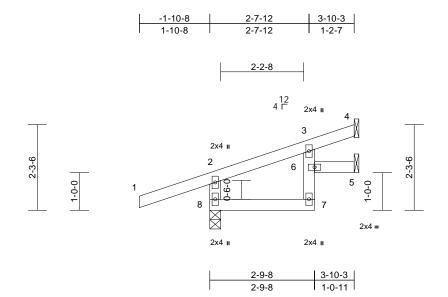






Truss Type	Qty	Ply	Lot 187 HM	
Jack-Open	1	1	Joh Reference (optional)	153722156

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Wed Aug 17 14:50:18 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:30.7

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	0.28	Vert(LL)	-0.01	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	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 WEBS

BRACING

Structural wood sheathing directly applied or TOP CHORD 3-10-3 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 8=74 (LC 4)

4=-28 (LC 8), 5=-10 (LC 8), 8=-119 Max Uplift

(LC 4)

Max Grav 4=82 (LC 1), 5=50 (LC 3), 8=345

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-306/136, 1-2=0/45, 2-3=-74/0,

3-4=-13/23

BOT CHORD 7-8=-22/34, 6-7=0/45, 3-6=-8/41, 5-6=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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 8, 28 lb uplift at joint 4 and 10 lb uplift at joint 5.

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.

LOAD CASE(S) Standard



August 19,2022

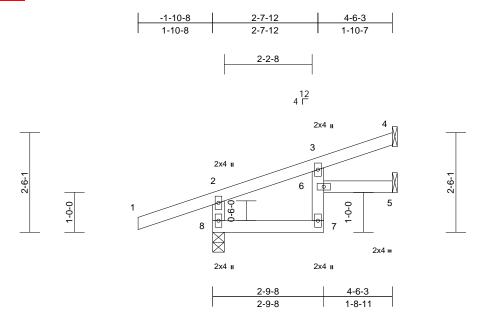


NOTED ON PLANS REVIEW SUMMIT, MISSÖÜRI Lumber Waverly, KS - 66871 3/2023 4:37:30

Ply Qty Truss Type Lot 187 HM 153722157 Jack-Open Job Reference (optional)

> Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:19 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29

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	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.03	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	6	>999	240	Weight: 15 lb	FT = 10%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD 4-6-3 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 8=83 (LC 4)

Max Uplift

4=-41 (LC 8), 5=-6 (LC 8), 8=-119

(LC 4)

Max Grav 4=107 (LC 1), 5=63 (LC 3), 8=368

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-327/136, 1-2=0/45, 2-3=-104/0,

3-4=-19/30

BOT CHORD 7-8=-32/52, 6-7=0/44, 3-6=-9/53, 5-6=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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 8, 41 lb uplift at joint 4 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



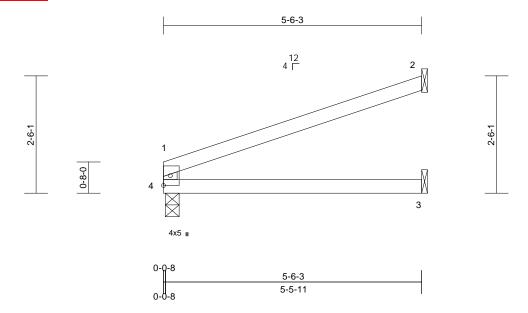
August 19,2022



1	Truss Type	Qty	Ply	Lot 187 HM	
ı	Jack-Open	1	1	Job Reference (optional)	153722158

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Wed Aug 17 14:50:19 $ID: 46 OpJgATn6f5Qv_RYxRc1fz4SeV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$

Page: 1



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	0.46	Vert(LL)	-0.04	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.08	3-4	>764	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.04	3-4	>999	240	Weight: 13 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 5-6-3 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 2= Mechanical, 3= Mechanical,

4=0-3-8

Max Horiz 4=66 (LC 8) Max Uplift 2=-77 (LC 8), 4=-27 (LC 4)

Max Grav 2=170 (LC 1), 3=101 (LC 3), 4=239

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-201/75, 1-2=-70/42

BOT CHORD 3-4=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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 4 and 77 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

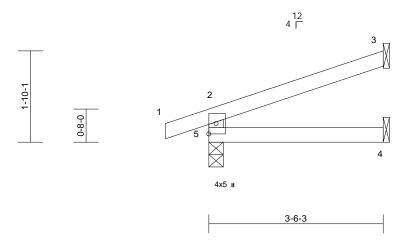




Ī	Truss Type	Qty	Ply	Lot 187 HM	
I	Jack-Open	1	1	Job Reference (optional)	153722159

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Wed Aug 17 14:50:19 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:23.2

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	0.15	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	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 3-6-3 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=57 (LC 4)

Max Uplift 3=-48 (LC 8), 5=-64 (LC 4) Max Grav 3=100 (LC 1), 4=62 (LC 3), 5=231

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-203/92, 1-2=0/23, 2-3=-45/24

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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 5 and 48 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





Ply Qty Truss Type Lot 187 HM 153722160 Diagonal Hip Girder 2 Job Reference (optional)

> Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:19 ID:1VWakMBjljvpfD8qgMT464z4SeT-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

-2-7-13	6-7-2
2-7-13	6-7-2

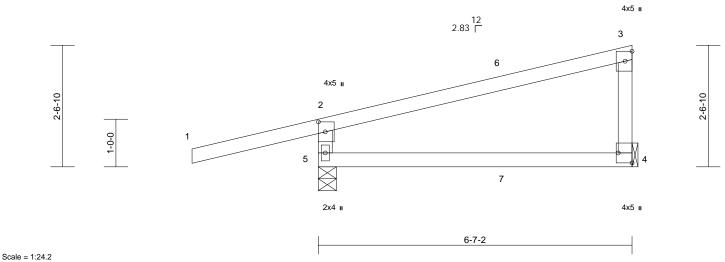


Plate Offsets (X, Y): [2:0-2-8,0-1-12], [4:Edge,0-3-8]

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	0.63	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.11	4-5	>697	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: 21 lb	FT = 10%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD 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=0-4-9

Max Horiz 5=105 (LC 5)

Max Uplift 4=-46 (LC 8), 5=-190 (LC 4) Max Grav 4=232 (LC 1), 5=517 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-461/228, 1-2=0/45, 2-3=-142/18, 3-4=-176/80

BOT CHORD 4-5=-28/69

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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 190 lb uplift at joint 5 and 46 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.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 32 lb up at 3-10-4, and 70 lb down and 32 lb up at 3-10-4 on top chord, and 9 lb down and 7 lb up at 3-10-4, and 9 lb down and 7 lb up at 3-10-4 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, 4-5=-20

Concentrated Loads (lb)

Vert: 7=14 (F=7, B=7)



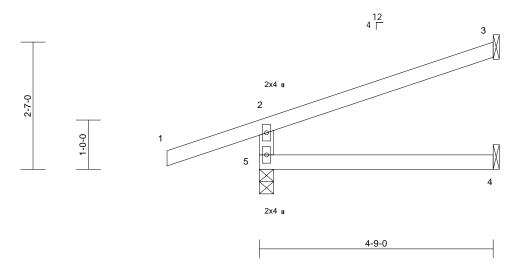
August 19,2022



Truss Type	Qty	Ply	Lot 187 HM	
Jack-Open	3	1	Job Reference (optional)	153722161

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Wed Aug 17 14:50:20 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:23.4

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)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.04	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)	0.01	4-5	>999	240	Weight: 14 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 4-9-0 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=86 (LC 4)

Max Uplift 3=-65 (LC 8), 5=-120 (LC 4) Max Grav 3=129 (LC 1), 4=83 (LC 3), 5=377

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-331/156, 1-2=0/45, 2-3=-63/31

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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 5 and 65 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





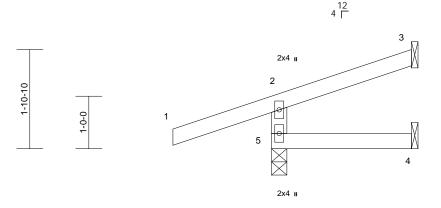
Truss Type	Qty	Ply	Lot 187 HM	
Jack-Open	4	1	Job Reference (optional)	153722162

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Wed Aug 17 14:50:20 ID:8kG3u?8DFUPNAbq2RWO8yEz4SeX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-10-10

Page: 1





2-7-15

Scale = 1:21.9

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)	0.00	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)	-0.01	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 2-7-15 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=58 (LC 4)

Max Uplift 3=-29 (LC 8), 5=-121 (LC 4) Max Grav 3=43 (LC 1), 4=41 (LC 3), 5=310

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-270/137, 1-2=0/45, 2-3=-41/8

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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 5 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

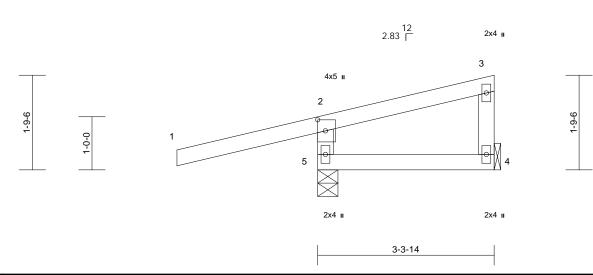




Truss Type	Qty	Ply	Lot 187 HM	
Diagonal Hip Girder	1	1	Job Reference (optional)	153722163

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Wed Aug 17 14:50:20 ID:iYnn2sU?e8DQ7E_XAKwKMpz_kTB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:21.7

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

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	0.63	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	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 = 10%

LOAD CASE(S) Standard

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

BRACING

LUMBER

TOP CHORD Structural wood sheathing directly applied or

3-3-14 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 5=0-4-9

Max Horiz 5=72 (LC 5)

Max Uplift 4=-9 (LC 5), 5=-192 (LC 4) Max Grav 4=65 (LC 3), 5=423 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-371/200, 1-2=0/45, 2-3=-35/33,

3-4=-37/23

BOT CHORD 4-5=-36/40

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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 5 and 9 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.





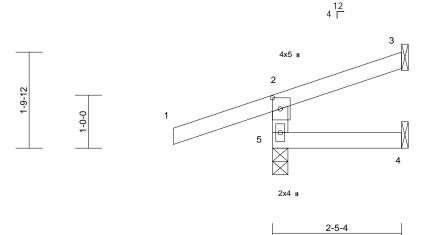
Truss Type	Qty	Ply	Lot 187 HM	
Jack-Open	2	1	Job Reference (optional)	153722164

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Wed Aug 17 14:50:20 ID:AkL9FCVdPSLHkOZjk2RZv0z_kTA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-9-12

Page: 1





Scale = 1:21.8

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

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	0.28	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)	-0.01	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%

LOAD CASE(S) Standard

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

BRACING

LUMBER

TOP CHORD Structural wood sheathing directly applied or

2-5-4 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 5=54 (LC 4)

Max Uplift 3=-25 (LC 8), 5=-123 (LC 4) Max Grav 3=31 (LC 1), 4=37 (LC 3), 5=306

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-266/136, 1-2=0/45, 2-3=-39/5

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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 5 and 25 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.

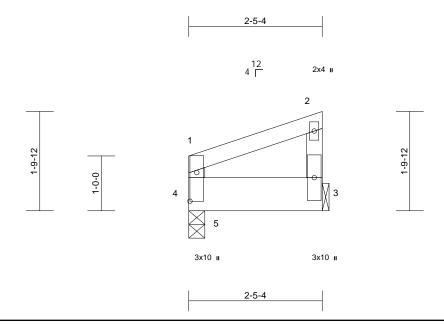




Ply Qty Truss Type Lot 187 HM 153722165 Jack-Closed Girder Job Reference (optional)

> Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:21 ID:AkL9FCVdPSLHkOZjk2RZv0z_kTA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:21

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

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	0.05	Vert(LL)	0.00	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	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: 12 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x8 SP DSS 2x4 SPF No.2 WEBS

BRACING

Structural wood sheathing directly applied or TOP CHORD 2-5-4 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=54 (LC 5)

Max Uplift 3=-51 (LC 8), 4=-161 (LC 4) Max Grav 3=295 (LC 1), 4=1101 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES Tension

1-4=-81/32, 1-2=-62/13, 2-3=-69/31

TOP CHORD **BOT CHORD** 3-4=-23/34

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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at joint 4 and 51 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.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1203 lb down and 174 lb up at 0-6-0 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=-1203 (F)







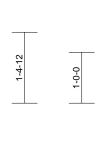
NOTED ON PLANS REVIEW

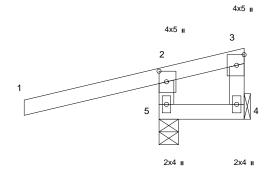
Truss Type	Qty	Ply	Lot 187 HM	
Diagonal Hip Girder	1	1	Job Reference (optional)	153722166

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:21 ID:AkL9FCVdPSLHkOZjk2RZv0z_kTA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-2-7-13 1-8-1 2-7-13 1-8-1

2.83 □





Page: 1

1-8-1

Scale = 1:22.6

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

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	0.63	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	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: 9 lb	FT = 10%

LOAD CASE(S) Standard

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

1-8-1 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 5=0-4-9

Max Horiz 5=69 (LC 7)

Max Uplift 4=-136 (LC 1), 5=-244 (LC 4) Max Grav 4=102 (LC 4), 5=456 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-402/233, 1-2=0/45, 2-3=-14/41,

3-4=-74/110 4-5=-68/50 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.
- 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 136 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.

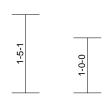


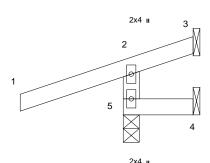


Truss Type	Qty	Ply	Lot 187 HM	
Jack-Open	3	1	Job Reference (optional)	153722167

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:21 ID:AkL9FCVdPSLHkOZjk2RZv0z_kTA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

-1-10-8	1-3-4
1-10-8	1-3-4







1-3-4

Scale = 1:21

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: 6 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 1-3-4 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=41 (LC 5)

3=-57 (LC 1), 4=-21 (LC 1), 5=-151 Max Uplift

(LC 4)

Max Grav 3=33 (LC 4), 4=13 (LC 4), 5=320

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-277/151, 1-2=0/45, 2-3=-43/10

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.

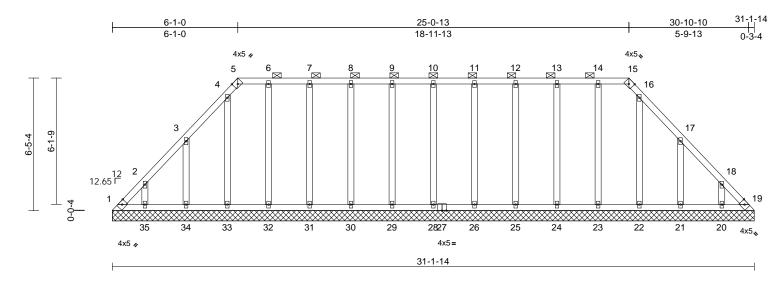
 * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 5, 21 lb uplift at joint 4 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.





Truss Type	Qty	Ply	Lot 187 HM	
Lay-In Gable	1	1	Joh Reference (ontional)	153722168

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:21 ID:cwqR5L9r0oXEoIPF?DwNURz4SeW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:55.9

LUMBER

TOP CHORD 2x4 SPF No.2

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

Tidle Offsets (X, T):	[0.0 Z 7,Euge],	[10.0 2 7,Euge]											
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	0.09	Horiz(TL)	0.01	19	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 159 lb	FT = 10%	

Tension

(lb) - Maximum Compression/Maximum

TOT OFFICIAL	2A+ OI I	10.2		
BOT CHORD	2x4 SPF	No.2	TOP CHORD	1-2=-244/160, 2-3=-143/123, 3-4=-106/92,
OTHERS	2x4 SPF	No.2		4-5=-69/81, 5-6=-28/91, 6-7=-28/91,
BRACING				7-8=-28/91, 8-9=-28/91, 9-10=-28/91,
TOP CHORD	6-0-0 oc p	I wood sheathing directly applied or purlins, except purlins (6-0-0 max.): 5-15.		10-11=-28/91, 11-12=-28/91, 12-13=-28/91, 13-14=-28/91, 14-15=-28/91, 15-16=-69/82, 16-17=-81/53, 17-18=-116/68, 18-19=-207/105
BOT CHORD		ing directly applied or 10-0-0 oc	BOT CHORD	1-35=-71/160, 34-35=-71/160,
	bracing.		BOT OHORB	33-34=-71/160, 32-33=-71/160,
REACTIONS	Max Horiz	1=31-1-14, 19=31-1-14, 20=31-1-14, 21=31-1-14, 22=31-1-14, 23=31-1-14, 24=31-1-14, 25=31-1-14, 26=31-1-14, 25=31-1-14, 29=31-1-14, 30=31-1-14, 31=31-1-14, 32=31-1-14, 33=31-1-14, 34=31-1-14, 35=31-1-14 1=-163 (LC 4) 1=-86 (LC 6), 19=-45 (LC 7), 20=-108 (LC 9), 21=-146 (LC 9), 22=-9 (LC 9), 23=-31 (LC 5), 24=-38 (LC 4), 25=-33 (LC 5),	WEBS	31-32=-71/160, 30-31=-71/160, 29-30=-71/160, 28-29=-71/160, 26-28=-71/160, 25-26=-71/160, 24-25=-71/160, 23-24=-71/160, 22-23=-71/160, 21-22=-71/160, 21-22=-71/160, 20-21=-71/160, 19-20=-71/160 2-35=-144/127, 3-34=-172/168, 4-33=-137/60, 6-32=-136/55, 7-31=-142/62, 8-30=-140/57, 9-29=-140/58, 10-28=-140/58, 11-26=-140/58, 12-25=-140/57, 13-24=-142/62, 14-23=-136/55, 16-22=-121/33, 17-21=-176/172, 18-20=-143/126
		26=-34 (LC 4), 28=-34 (LC 5),	NOTES	ad roof live loads have been considered for
		29=-34 (LC 4), 30=-33 (LC 5),	i) Unbalance	ed roof live loads have been considered for

31=-38 (LC 4), 32=-31 (LC 5),

1=169 (LC 8), 19=142 (LC 9),

20=182 (LC 16), 21=217 (LC 16),

22=161 (LC 22), 23=176 (LC 21),

24=182 (LC 21), 25=180 (LC 22),

29=180 (LC 22), 30=180 (LC 21),

31=182 (LC 22), 32=176 (LC 22), 33=177 (LC 15), 34=213 (LC 15),

26=180 (LC 21), 28=180 (LC 1),

35=-109 (LC 8)

35=183 (LC 15)

Max Grav

33=-36 (LC 5), 34=-143 (LC 8),

FORCES

- 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.
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 1, 45 lb uplift at joint 19, 109 lb uplift at joint 35, 143 lb uplift at joint 34, 36 lb uplift at joint 33, 31 lb uplift at joint 32, 38 lb uplift at joint 31, 33 lb uplift at joint 30, 34 lb uplift at joint 29, 34 lb uplift at joint 28, 34 lb uplift at joint 26, 33 lb uplift at joint 25, 38 lb uplift at joint 24, 31 lb uplift at joint 23, 9 lb uplift at joint 22, 146 lb uplift at joint 21 and 108 lb uplift at joint 20.
- 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



August 19,2022



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

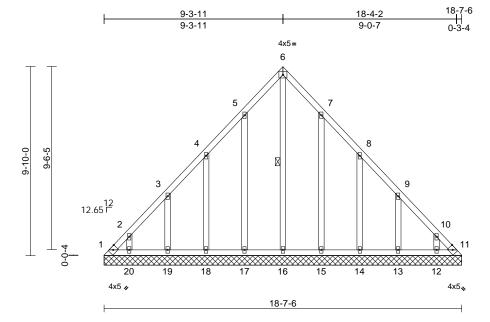


16023 Swingley Ridge Rd Chesterfield, MO 63017

Ply Truss Type Qty Lot 187 HM 153722169 Lay-In Gable 2 Job Reference (optional)

> Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:22 ID:cwqR5L9r0oXEoIPF?DwNURz4SeW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scal	е	=	1	:	6	(

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)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 98 lb	FT = 10%

LUMBER

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

WFRS 1 Row at midpt 6-16

REACTIONS (size)

1=18-7-6, 11=18-7-6, 12=18-7-6, 13=18-7-6, 14=18-7-6, 15=18-7-6, 16=18-7-6, 17=18-7-6, 18=18-7-6,

19=18-7-6, 20=18-7-6

Max Horiz 1=251 (LC 7) Max Uplift

1=-140 (LC 6), 11=-98 (LC 7), 12=-106 (LC 9), 13=-127 (LC 9),

14=-127 (LC 9), 15=-122 (LC 9), 17=-124 (LC 8), 18=-126 (LC 8),

19=-127 (LC 8), 20=-106 (LC 8) 1=259 (LC 8), 11=231 (LC 9), Max Grav

12=173 (LC 16), 13=209 (LC 16), 14=201 (LC 16), 15=211 (LC 16), 16=231 (LC 9), 17=214 (LC 15), 18=200 (LC 15), 19=209 (LC 15),

20=173 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-362/220, 2-3=-264/186, 3-4=-165/137, 4-5=-139/128, 5-6=-113/192, 6-7=-88/170,

7-8=-95/89, 8-9=-122/79, 9-10=-226/128,

10-11=-324/162

1-20=-108/233, 19-20=-108/233, BOT CHORD

18-19=-108/233, 17-18=-108/233, 16-17=-108/233, 15-16=-108/233, 14-15=-108/233, 13-14=-108/233, 12-13=-108/233, 11-12=-108/233

WEBS

6-16=-207/27, 5-17=-174/148, 4-18=-160/150, 3-19=-168/152, 2-20=-137/123, 7-15=-171/146, 8-14=-161/151, 9-13=-168/152,

10-12=-138/124

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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint 1, 98 lb uplift at joint 11, 124 lb uplift at joint 17, 126 Ib uplift at joint 18, 127 lb uplift at joint 19, 106 lb uplift at joint 20, 122 lb uplift at joint 15, 127 lb uplift at joint 14,
- 127 lb uplift at joint 13 and 106 lb uplift at joint 12. 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



August 19,2022

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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 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 chorembers 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, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



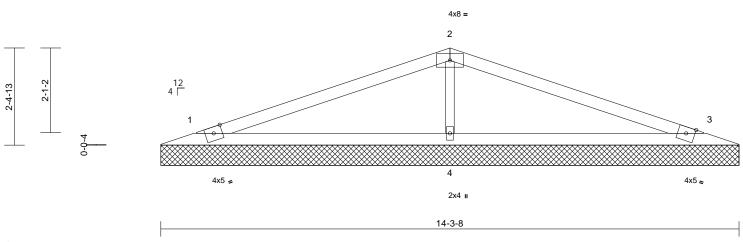
16023 Swingley Ridge Rd Chesterfield, MO 63017

Truss Type	Qty	Ply	Lot 187 HM	
Valley	1	1	Job Reference (optional)	153722170

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:22 ID:46OpJgATn6f5Qv_RYxRc1fz4SeV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

L	7-1-12	13-5-1	14-3-8
	7-1-12	6-3-5	0-10-7



Scale = 1:28.5

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	0.57	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 33 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 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=14-3-8, 3=14-3-8, 4=14-3-8 (size)

Max Horiz 1=37 (LC 12)

1=-54 (LC 4), 3=-58 (LC 9), 4=-58 Max Uplift

(LC 4)

Max Grav 1=253 (LC 21), 3=253 (LC 22),

4=639 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-102/59, 2-3=-102/47 **BOT CHORD** 1-4=-1/39, 3-4=-1/39

WEBS 2-4=-450/133

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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 1, 58 lb uplift at joint 3 and 58 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



August 19,2022



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

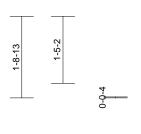


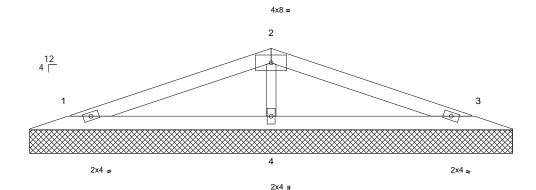
Truss Type	Qty	Ply	Lot 187 HM	
Valley	1	1	Job Reference (optional)	153722171

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Wed Aug 17 14:50:23 ID:46OpJgATn6f5Qv_RYxRc1fz4SeV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

5-1-12	9-5-1	10-3-8	
5-1-12	4-3-5	0-10-7	ı





10-3-8

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	0.25	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 23 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 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=10-3-8, 3=10-3-8, 4=10-3-8 (size)

Max Horiz 1=25 (LC 8)

1=-37 (LC 4), 3=-40 (LC 9), 4=-40 Max Uplift

(LC 4)

Max Grav 1=172 (LC 21), 3=172 (LC 22),

4=435 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-69/40, 2-3=-69/32

BOT CHORD 1-4=-1/26, 3-4=-1/26

WEBS 2-4=-306/91

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
- 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.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 40 lb uplift at joint 3 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.

LOAD CASE(S) Standard



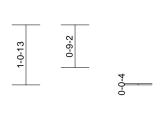


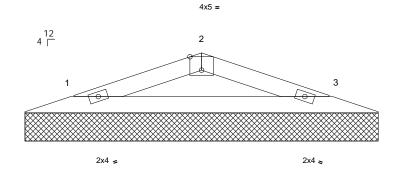
Truss Type	Qty	Ply	Lot 187 HM	
Valley	1	1	Job Reference (optional)	153722172

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Page: 1

3-1-12	5-5-1	6-3-8
3-1-12	2-3-5	0-10-7





6-3-8

Scale = 1:20.5

Plate Offsets (X, Y): [2:0-2-8,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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	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: 13 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=6-3-8, 3=6-3-8

Max Horiz 1=-14 (LC 13)

Max Uplift 1=-30 (LC 4), 3=-30 (LC 5) Max Grav 1=204 (LC 1), 3=204 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-267/85, 2-3=-267/85

BOT CHORD 1-3=-66/234

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
- 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 1 and 30 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



August 19,2022



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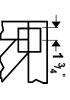
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

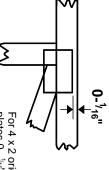


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

* Plate location details available in MiTek 20/20 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



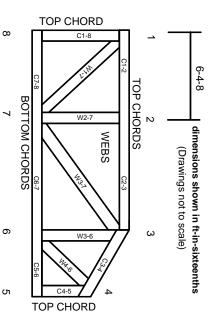
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Min size shown is for crushing only

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 & Bracing of Metal Plate Connected Wood Trusses.

RELEASE FOR CONSTRU

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-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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. 5/19/2020

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.

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- 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.

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- 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.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21.The design does not take into account any dynamic or other loads other than those expressly stated.