

RE: P250017-01

Roof - HM Lot 205

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017

314.434.1200

Site Information:

Customer: Clayton Properties Project Name: P250017-01 Lot/Block: 205 Project Name: P250017-01 Model: Carolina Model: Carolina - Modern Prairie 3 Car

Address: 1101 SW Fiord Dr Subdivision: Highland Meadows

City: Lee's Summit State: MO

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.6

Wind Code: ASCE 7-16 Wind Speed: 115 mph Floor Load: N/A psf Roof Load: 45.0 psf

This package includes 47 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	165760522	A6	5/22/2024	21	165760542	CG1	5/22/2024
2	165760523	A7	5/22/2024	22	165760543	CG2	5/22/2024
3	165760524	A8	5/22/2024	23	165760544	CG3	5/22/2024
4	165760525	A9	5/22/2024	24	165760545	D1	5/22/2024
5	165760526	A10	5/22/2024	25	165760546	E1	5/22/2024
6	165760527	A11	5/22/2024	26	165760547	E2	5/22/2024
7	165760528	A12	5/22/2024	27	165760548	J1	5/22/2024
8	165760529	A13	5/22/2024	28	165760549	J2	5/22/2024
9	165760530	A14	5/22/2024	29	165760550	J3	5/22/2024
10	165760531	A15	5/22/2024	30	165760551	J4	5/22/2024
11	165760532	A16	5/22/2024	31	165760552	J6	5/22/2024
12	165760533	A17	5/22/2024	32	165760553	J7	5/22/2024
13	165760534	A18	5/22/2024	33	165760554	J8	5/22/2024
14	165760535	B1	5/22/2024	34	165760555	LG1	5/22/2024
15	165760536	B2	5/22/2024	35	165760556	LG2	5/22/2024
16	165760537	B3	5/22/2024	36	165760557	LG3	5/22/2024
17	165760538	B4	5/22/2024	37	165760558	LG4	5/22/2024
18	165760539	C1	5/22/2024	38	165760559	M1	5/22/2024
19	165760540	C2	5/22/2024	39	165760560	M2	5/22/2024
20	165760541	C3	5/22/2024	40	165760561	M3	5/22/2024

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

MiTek USA, Inc under my direct supervision based on the parameters provided by .

Truss Design Engineer's Name: Nathan Fox

My license renewal date for the state of Missouri is December 31, 2026.

Missouri COA: 001193

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.



01/28/2025 4:23:41



RE: P250017-01 - Roof - HM Lot 205

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

Site Information:

Project Customer: Clayton Properties Project Name: P250017-01

Lot/Block: 205 Subdivision: Highland Meadows

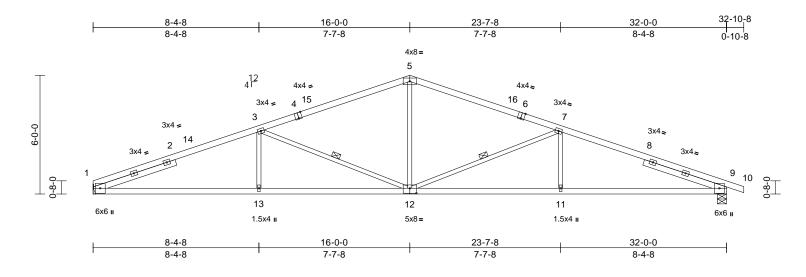
Lot/Block: 205 Address: 1101 SW Fiord Dr

City, County: Lee's Summit State: MO

No.	Seal#	Truss Name	Date
41	165760562	M4	5/22/2024
42	165760563	M5	5/22/2024
43	165760564	M6	5/22/2024
44	165760565	M7	5/22/2024
45	165760566	M8	5/22/2024
46	165760567	V1	5/22/2024
47	165760568	V2	5/22/2024

Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	A6	Common	2	1	Job Reference (optional)	165760522

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:46:59 ID:gssx3aRENmQB7mKwARHJKMzbfHA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:58.2

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

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	0.95	Vert(LL)	-0.21	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.42	11-12	>911	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.15	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 135 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E *Except* 6-10:2x4 SP

No.2 2x4 SP No.2

BOT CHORD 2x3 SPF No 2 WFBS

SLIDER Left 2x4 SP No.2 -- 4-4-9, Right 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied or 2-2-0 oc

bracing.

WEBS 1 Row at midpt 7-12, 3-12

REACTIONS (size) 1= Mechanical, 9=0-5-8

Max Horiz 1=109 (LC 12)

Max Uplift 1=-252 (LC 8), 9=-293 (LC 9) Max Grav 1=1439 (LC 1), 9=1502 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-3204/749, 3-5=-2272/595,

5-7=-2272/587, 7-9=-3198/727, 9-10=-5/0

BOT CHORD 1-13=-612/2929, 11-13=-612/2929,

9-11=-601/2922

WEBS 5-12=-128/861, 7-12=-987/306, 7-11=0/333,

3-12=-995/308, 3-13=0/336

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 16-0-0, Exterior(2R) 16-0-0 to 21-0-0, Interior (1) 21-0-0 to 32-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 9 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 252 lb uplift at joint 1 and 293 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



May 22,2024

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

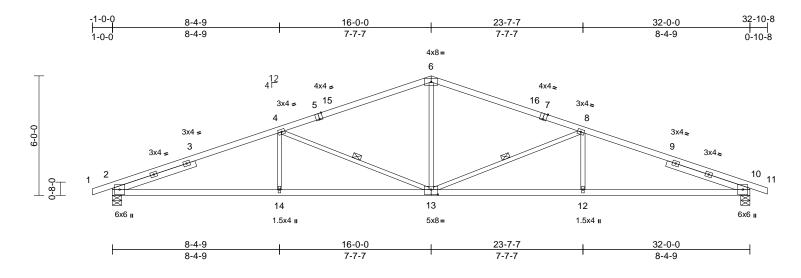
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	A7	Common	1	1	Job Reference (optional)	165760523

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:00 ID:gssx3aRENmQB7mKwARHJKMzbfHA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale - 1:57 8

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

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	0.95	Vert(LL)	-0.21	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.42	13-14	>907	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.15	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 136 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E *Except* 1-5,7-11:2x4 SP

No.2

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

SLIDER Left 2x4 SP No.2 -- 4-4-10, Right 2x4 SP

No.2 -- 4-4-10

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

WEBS 1 Row at midpt 8-13, 4-13

REACTIONS (size) 2=0-5-8, 10=0-5-8

Max Horiz 2=108 (LC 12)

Max Uplift 2=-299 (LC 8), 10=-293 (LC 9) Max Grav 2=1510 (LC 1), 10=1501 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-2/0, 2-4=-3193/722, 4-6=-2269/585,

6-8=-2269/586, 8-10=-3194/724, 10-11=-5/0

BOT CHORD 2-14=-590/2917, 12-14=-593/2918,

10-12=-593/2918

WEBS 6-13=-121/858, 8-13=-987/306, 8-12=0/333,

4-13=-985/305, 4-14=0/333

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 4-0-0, Interior (1) 4-0-0 to 16-0-0, Exterior(2R) 16-0-0 to 21-0-0, Interior (1) 21-0-0 to 32-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 299 lb uplift at joint 2 and 293 lb uplift at joint 10.
- 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



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

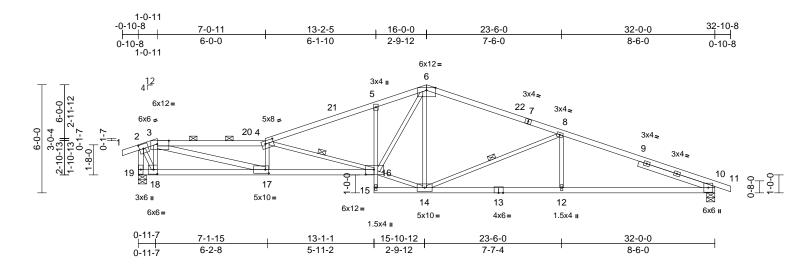
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	A8	Roof Special	1	1	Job Reference (optional)	165760524

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:00 ID:5i3VGQhngvxLXrsmLee?8azbfGs-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



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Plate Offsets (X, Y): [2:0-2-11,0-3-0], [3:0-7-12,Edge], [4:0-5-8,0-2-0], [10:0-3-13,0-1-5], [16:0-5-8,0-3-4], [17:0-2-4,0-2-8], [18:0-2-8,0-3-0]

•			-				-					
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	0.97	Vert(LL)	-0.39	16-17	>992	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.72	16-17	>528	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.16	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		·					Weight: 149 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E *Except* 1-3,7-11:2x4 SP

No.2

BOT CHORD 2x4 SP No.2 *Except* 19-16:2x4 SP 1650F

1.5E, 5-15:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 17-3,19-2:2x4 SP

No.2

SLIDER Right 2x4 SP No.2 -- 4-5-6

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing

WEBS 1 Row at midpt 4-16, 8-14 **REACTIONS** (size) 10=0-5-8, 19=0-5-8

REACTIONS (size) 10=0-5-8, 19=0-5-8 Max Horiz 19=-128 (LC 13)

Max Uplift 10=-291 (LC 9), 19=-301 (LC 8)

Max Grav 10=1494 (LC 1), 19=1505 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23, 2-3=-836/200, 3-4=-4719/1117,

4-5=-3216/775, 5-6=-3141/838,

6-8=-2228/582, 8-10=-3172/724, 10-11=-5/0,

2-19=-1604/418

BOT CHORD 18-19=-31/139, 17-18=-140/897,

16-17=-971/4659, 15-16=-1/4, 5-16=-339/200, 14-15=-35/50,

12-14=-596/2898, 10-12=-596/2898

WEBS 3-18=-1166/389, 3-17=-916/3962, 4-17=-963/335, 4-16=-1737/431,

6-16=-445/1806, 2-18=-370/1576,

6-14=-260/112, 14-16=-331/2106,

8-12=0/344, 8-14=-992/301

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 6-0-11, Interior (1) 6-0-11 to 16-0-0, Exterior(2R) 16-0-0 to 21-0-0, Interior (1) 21-0-0 to 32-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 19 SP 1650F 1.5E crushing capacity of 565 psi, Joint 10 SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 301 lb uplift at joint 19 and 291 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



May 22,2024

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

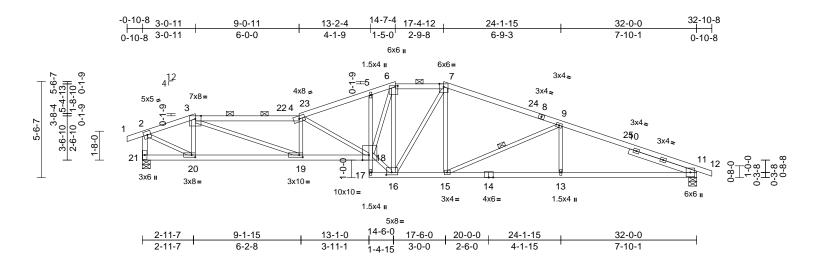
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	A9	Roof Special	1	1	Job Reference (optional)	165760525

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:01 ID:dWV724g9vbpUvhHanx7mcMzbfGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.5

Plate Offsets (X, Y): [6:0-0-12,0-1-12], [11:0-3-13,0-1-5], [16:0-3-12,0-1-12], [18:0-4-8,Edge], [19:0-2-8,0-1-8], [20:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.31	18-19	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.57	18-19	>669	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.16	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 151 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 3-4,7-8:2x4 SP 1650F

1.5E

BOT CHORD 2x4 SP No.2 *Except* 21-18:2x4 SP 1650F

1.5E, 5-17:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 21-2:2x4 SP No.2 **SLIDER**

Right 2x4 SP No.2 -- 4-1-3

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-11-8 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 3-4, 6-7.

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

bracing.

WEBS 1 Row at midpt 9-15

REACTIONS (size) 11=0-5-8, 21=0-5-8 Max Horiz 21=-118 (LC 13)

Max Uplift 11=-299 (LC 9), 21=-311 (LC 8)

Max Grav 11=1494 (LC 1), 21=1505 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23, 2-3=-1764/473, 3-4=-4011/1062,

> 4-5=-3149/856, 5-6=-3037/871, 6-7=-2194/678, 7-9=-2417/685,

9-11=-3194/794, 11-12=-5/0, 2-21=-1497/476

BOT CHORD 20-21=-44/129, 19-20=-335/1692, 18-19=-898/3976, 17-18=-10/13,

5-18=-44/98, 16-17=-33/130,

15-16=-465/2219, 13-15=-667/2917,

11-13=-667/2917

WEBS 3-20=-704/272, 3-19=-617/2481,

4-19=-786/294, 4-18=-1204/322

16-18=-519/2560, 6-18=-545/2297, 6-16=-1434/324, 7-16=-241/170,

7-15=-43/419, 9-15=-806/261, 9-13=0/311,

2-20=-464/1834

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-0-11, Exterior(2R) 3-0-11 to 8-0-11, Interior (1) 8-0-11 to 14-7-4, Exterior(2E) 14-7-4 to 17-4-12, Exterior(2R) 17-4-12 to 22-4-12, Interior (1) 22-4-12 to 32-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearings are assumed to be: Joint 21 SP 1650F 1.5E crushing capacity of 565 psi, Joint 11 SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 311 lb uplift at joint 21 and 299 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.

LOAD CASE(S) Standard



May 22,2024

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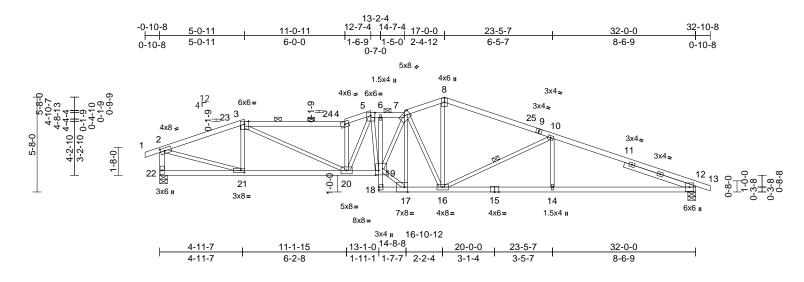
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	A10	Roof Special	1	1	Job Reference (optional)	165760526

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:01 ID:8JxkrkfW8IhdHXiODDcX39zbfGu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:68.8

				+								-
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	0.82	Vert(LL)	-0.27	19-20	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.49	19-20	>784	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.14	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 155 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 3-4:2x4 SP 1650F

1.5E

BOT CHORD 2x4 SP No.2 *Except* 6-18:2x3 SPF No.2 2x3 SPF No.2 *Except* 22-2:2x4 SP No.2 WFBS **SLIDER**

Right 2x4 SP No.2 -- 4-5-11

BRACING TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-8-10 max.): 3-4, 5-7. Rigid ceiling directly applied or 2-2-0 oc

bracing.

1 Row at midpt 10-16 REACTIONS (size) 12=0-5-8, 22=0-5-8

Max Horiz 22=-122 (LC 13)

Max Uplift 12=-277 (LC 9), 22=-308 (LC 8)

Max Grav 12=1494 (LC 1), 22=1505 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23. 2-3=-2172/594. 3-4=-3482/969.

4-5=-3605/1013, 5-6=-3154/896, 6-7=-3145/896, 7-8=-2295/693,

8-10=-2325/666, 10-12=-3154/779, 12-13=-5/0, 2-22=-1459/498

BOT CHORD 21-22=-32/164, 20-21=-424/2032

19-20=-693/3141, 18-19=0/35, 6-19=0/44, 17-18=-26/143, 16-17=-553/2511,

14-16=-648/2878, 12-14=-648/2878

WEBS 3-21=-445/212, 3-20=-408/1614, 4-20=-1295/440, 17-19=-640/2877,

7-19=-361/1588, 7-17=-1540/355, 2-21=-485/1991, 8-16=-267/1137, 7-16=-785/251, 10-14=0/332,

10-16=-886/269, 5-20=-212/765,

5-19=-64/151

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-0-11, Exterior(2R) 5-0-11 to 10-0-11, Interior (1) 10-0-11 to 12-7-4, Exterior(2E) 12-7-4 to 14-7-4, Interior (1) 14-7-4 to 17-0-0, Exterior (2R) 17-0-0 to 22-0-0, Interior (1) 22-0-0 to 32-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 308 lb uplift at joint 22 and 277 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



May 22,2024

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

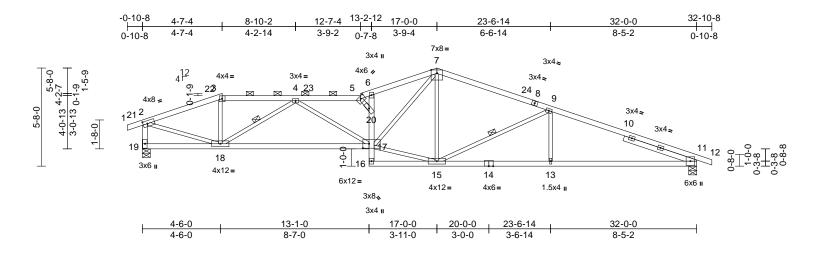
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	A11	Roof Special	1	1	Job Reference (optional)	165760527

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:01 ID:8JxkrkfW8IhdHXiODDcX39zbfGu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.5

Plate Offsets (X, Y): [2:0-3-0,0-2-0], [5:0-3-0,0-1-8], [11:0-3-13,0-1-5], [17:0-4-4,0-3-0]

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	0.95	Vert(LL)	-0.30	20	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.60	17-18	>640	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.15	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 148 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP 1650F 1.5E *Except* 16-14,14-11:2x4 BOT CHORD

SP No.2

WFBS 2x3 SPF No.2 *Except* 19-2:2x4 SP No.2

SLIDER Right 2x4 SP No.2 -- 4-4-14

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied,

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

(2-4-7 max.): 3-5.

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

bracing

WEBS 1 Row at midpt 4-18, 9-15 REACTIONS 11=0-5-8, 19=0-5-8 (size)

Max Horiz 19=-122 (LC 13)

Max Uplift 11=-278 (LC 9), 19=-308 (LC 8)

Max Grav 11=1494 (LC 1), 19=1505 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/23, 2-3=-2106/527, 3-4=-1944/527,

4-5=-3876/974, 5-6=-3197/800,

6-7=-3693/971, 7-9=-2338/629, 9-11=-3163/746, 11-12=-5/0, 2-19=-1478/468

BOT CHORD 18-19=-36/148, 17-18=-733/3257,

16-17=0/61, 17-20=-1342/425,

6-20=-238/157, 15-16=-136/420 13-15=-618/2887, 11-13=-618/2887

3-18=-16/388, 7-17=-483/2019,

2-18=-423/1962, 7-15=-100/148 15-17=-273/1784, 4-18=-1561/449,

4-17=-113/729, 9-13=0/325, 9-15=-884/271,

5-20=-1428/364

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 4-7-4, Exterior(2R) 4-7-4 to 9-7-4, Interior (1) 9-7-4 to 17-0-0, Exterior(2R) 17-0-0 to 22-0-0, Interior (1) 22-0-0 to 32-10-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearings are assumed to be: Joint 19 SP 1650F 1.5E crushing capacity of 565 psi, Joint 11 SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 308 lb uplift at joint 19 and 278 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.

LOAD CASE(S) Standard



May 22,2024

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

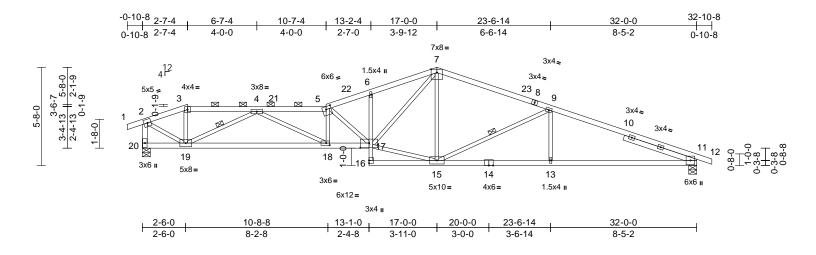
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	A12	Roof Special	1	1	Job Reference (optional)	165760528

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:01 ID:g7OMdOeuN_ZmfO7BfW5IXxzbfGv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.5

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

				1								-
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.34	17-18	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.62	17-18	>616	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.17	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 146 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 20-17:2x4 SP 1650F

1.5E. 6-16:2x3 SPF No.2

WFBS 2x3 SPF No.2 *Except* 20-2:2x4 SP No.2

SLIDER Right 2x4 SP No.2 -- 4-4-14

BRACING

TOP CHORD Structural wood sheathing directly applied,

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

(2-2-0 max.): 3-5.

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

bracing. WEBS

1 Row at midpt 4-19, 9-15 REACTIONS (size) 11=0-5-8, 20=0-5-8

Max Horiz 20=-122 (LC 13)

Max Uplift 11=-280 (LC 9), 20=-308 (LC 8)

Max Grav 11=1494 (LC 1), 20=1505 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23, 2-3=-1599/374, 3-4=-1491/372,

4-5=-4666/1088, 5-6=-3781/926, 6-7=-3737/973, 7-9=-2340/614,

9-11=-3162/730, 11-12=-5/0, 2-20=-1517/431

BOT CHORD 19-20=-48/127, 18-19=-768/3475,

17-18=-935/4641, 16-17=0/60,

6-17=-161/126, 15-16=-19/152,

13-15=-603/2886, 11-13=-603/2886 3-19=-14/285, 5-18=-465/197,

WEBS 5-17=-1437/301, 7-17=-517/2091,

2-19=-368/1728, 7-15=-148/113,

15-17=-377/2062, 4-18=-230/1337,

4-19=-2233/609, 9-13=0/325, 9-15=-881/270

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-7-4, Exterior(2R) 2-7-4 to 7-7-4, Interior (1) 7-7-4 to 17-0-0, Exterior(2R) 17-0-0 to 22-0-0, Interior (1) 22-0-0 to 32-10-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearings are assumed to be: Joint 20 SP 1650F 1.5E crushing capacity of 565 psi, Joint 11 SP No.2 crushing
- capacity of 565 psi. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 308 lb uplift at
- joint 20 and 280 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. LOAD CASE(S) Standard



May 22,2024

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

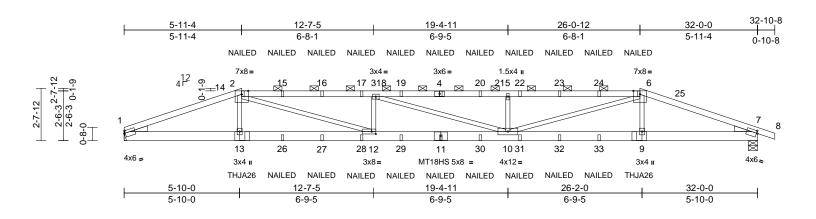
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	A13	Hip Girder	1	2	Job Reference (optional)	165760529

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:02 ID:5WIMACiUD2Mhm3xCiduR6AzEAIj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:58.2

Plate Offsets (X, Y): [1:0-0-11,0-1-8], [7:0-0-11,0-1-8], [12:0-2-8,0-1	-8	J
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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	0.97	Vert(LL)	-0.43	10-12	>895	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.77	10-12	>496	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.09	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 300 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 2-4,4-6:2x4 SP 2400F

2.0E

BOT CHORD 2x6 SP 2400F 2.0E 2x3 SPF No 2 WFBS WEDGE Left: 2x4 SP No.3

Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

> 3-11-4 oc purlins, except 2-0-0 oc purlins (4-2-2 max.): 2-6.

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

bracing.

REACTIONS (size) 1= Mechanical, 7=0-5-8

Max Horiz 1=-42 (LC 17)

Max Uplift 1=-745 (LC 8), 7=-801 (LC 9) Max Grav 1=2734 (LC 1), 7=2828 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-7218/2111. 2-3=-10500/3088. 3-5=-10383/3013, 5-6=-10388/3016

6-7=-7107/2041, 7-8=0/1

BOT CHORD 1-13=-1902/6697. 12-13=-1900/6666

10-12=-2965/10495, 9-10=-1829/6534,

7-9=-1831/6566

2-13=-24/685, 2-12=-1154/4135,

3-12=-1048/532, 3-10=-176/76,

5-10=-1049/544, 6-10=-1156/4146,

6-9=-41/699

NOTES

WFBS

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

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

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

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

- 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.
- 3) 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=35ft; Ke=1.00: Cat. II: Exp C: Enclosed: MWFRS (envelope) exterior zone and C-C Exterior(2F) 0-0-12 to 5-0-12 Interior (1) 5-0-12 to 5-11-4, Exterior(2R) 5-11-4 to 13-0-2. Interior (1) 13-0-2 to 26-0-12. Exterior(2E) 26-0-12 to 32-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearings are assumed to be: , Joint 7 SP 2400F 2.0E crushing capacity of 805 psi.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 745 lb uplift at joint 1 and 801 lb uplift at joint 7.
- 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.
- 13) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 5-11-10 from the left end to connect truss(es) to front face of bottom chord.
- 14) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 26-0-6 from the left end to connect truss(es) to front face of bottom chord.

- 15) Fill all nail holes where hanger is in contact with lumber
- 16) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

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

Concentrated Loads (lb)

Vert: 2=-131 (F), 4=-131 (F), 11=-39 (F), 13=-420 (F), 6=-131 (F), 9=-420 (F), 15=-131 (F), 16=-131 (F), 17=-131 (F), 19=-131 (F), 20=-131 (F), 22=-131 (F), 23=-131 (F), 24=-131 (F), 26=-39 (F), 27=-39 (F), 28=-39 (F), 29=-39 (F), 30=-39 (F), 31=-39 (F), 32=-39 (F), 33=-39 (F)



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

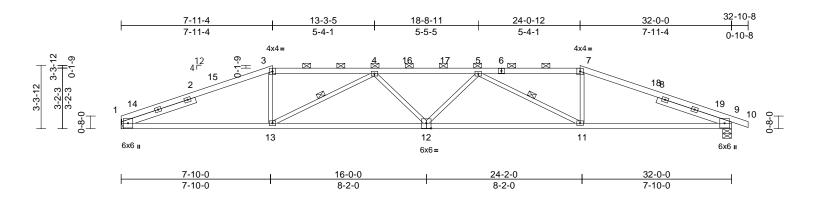
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	A14	Hip	1	1	Job Reference (optional)	165760530

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:02 $ID:oANjipc5suUgR_vsnfGoJhzEAlq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$

Page: 1



Scale = 1:60.4

Plate Offsets (X, Y): [1:0-3-0,0-1-5], [9:0-3-13,0-1-5], [12:0-3-0,0-3-4]

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	0.81	Vert(LL)	-0.32	12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.61	11-12	>629	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.17	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 130 lb	FT = 20%

LUMBER

BRACING

TOP CHORD 2x4 SP 2400F 2.0E *Except* 3-6,6-7:2x4 SP

No.2

BOT CHORD 2x4 SP 1650F 1.5E 2x3 SPF No 2 WFBS

SLIDER Left 2x4 SP No.2 -- 4-1-2, Right 2x4 SP No.2

-- 4-1-2

Structural wood sheathing directly applied or TOP CHORD

3-4-5 oc purlins, except

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

bracing.

WFBS 1 Row at midpt 4-13, 5-11

REACTIONS (size) 1= Mechanical, 9=0-5-8

Max Horiz 1=57 (LC 16)

Max Uplift 1=-299 (LC 8), 9=-340 (LC 9)

Max Grav 1=1439 (LC 1), 9=1502 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

1-3=-3244/833, 3-4=-2945/826,

4-5=-3980/1026, 5-7=-2938/801,

7-9=-3240/810. 9-10=-5/0

BOT CHORD 1-13=-682/2967, 11-13=-951/3908,

9-11=-664/2962

WEBS 3-13=-51/733, 7-11=-53/735, 4-12=0/225,

4-13=-1225/322, 5-12=0/219,

5-11=-1235/325

NOTES

TOP CHORD

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 7-11-4, Exterior(2R) 7-11-4 to 15-0-2, Interior (1) 15-0-2 to 24-0-12, Exterior(2R) 24-0-12 to 31-1-10, Interior (1) 31-1-10 to 32-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 9 SP 1650F 1.5E crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 299 lb uplift at joint 1 and 340 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



May 22,2024

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

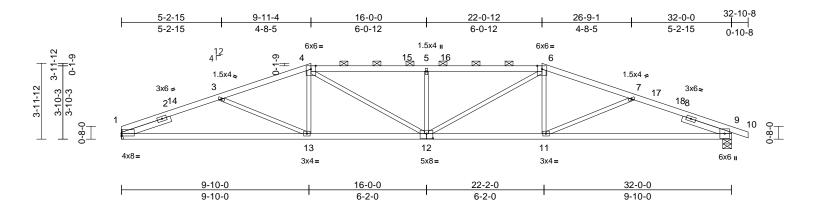
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	A15	Hip	1	1	Job Reference (optional)	165760531

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:02 ID:oANjipc5suUgR_vsnfGoJhzEAIq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:60.4

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	I /d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.27	12	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.57	1-13	>674	180	· -	211/100
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.14	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		, ,					Weight: 134 lb	FT = 20%

LUMBER

BRACING

TOP CHORD 2x4 SP No.2 *Except* 1-4:2x4 SP 1650F

1.5E

BOT CHORD 2x4 SP 1650F 1.5E WFBS 2x3 SPF No 2

SLIDER Left 2x4 SP No.2 -- 2-8-8, Right 2x4 SP No.2

-- 2-8-8

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (2-2-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 7-10-7 oc

bracing.

REACTIONS (size) 1= Mechanical, 9=0-5-8

Max Horiz 1=70 (LC 16)

Max Uplift 1=-290 (LC 8), 9=-331 (LC 9) Max Grav 1=1439 (LC 1), 9=1502 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-3205/923, 3-4=-2970/801,

4-5=-3306/966, 5-6=-3306/966,

6-7=-2966/791, 7-9=-3198/925, 9-10=-5/0

BOT CHORD 1-13=-802/2910, 11-13=-618/2790,

9-11=-800/2902

WEBS 4-13=0/344, 4-12=-224/752, 5-12=-533/261,

 $6-12=-225/755,\ 6-11=0/343,\ 3-13=-154/232,$

7-11=-149/229

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-9, Interior (1) 5-0-9 to 9-11-4, Exterior(2R) 9-11-4 to 17-0-2, Interior (1) 17-0-2 to 22-0-12, Exterior(2R) 22-0-12 to 29-1-10, Interior (1) 29-1-10 to 32-10-8 zone; cantilever left and right exposed; c-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 9 SP 1650F 1.5E crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 290 lb uplift at joint 1 and 331 lb uplift at joint 9.
- 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



May 22,2024

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

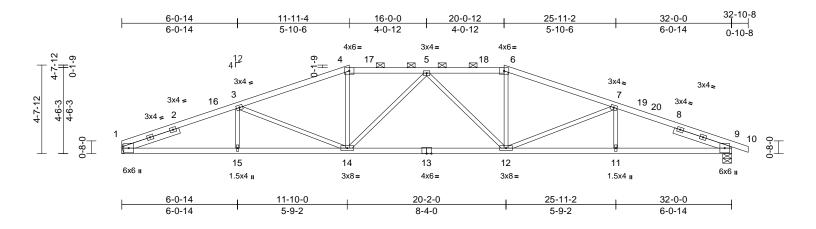
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	A16	Hip	1	1	Job Reference (optional)	165760532

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:02 ID:GMw5v9djdCcX28U2LMn1svzEAlp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:60.5

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	0.68	Vert(LL)	-0.23	12-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.51	12-14	>757	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.15	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 137 lb	FT = 20%

LUMBER

2x4 SP 1650F 1.5E *Except* 4-6:2x4 SP TOP CHORD

No.2

BOT CHORD 2x4 SP No.2 2x3 SPF No 2 WFBS

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

-- 3-2-0

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-10-9 oc purlins, except

2-0-0 oc purlins (3-6-3 max.): 4-6. BOT CHORD Rigid ceiling directly applied or 6-8-1 oc

bracing.

REACTIONS (size) 1= Mechanical, 9=0-5-8

Max Horiz 1=82 (LC 12)

Max Uplift 1=-279 (LC 8), 9=-320 (LC 9)

Max Grav 1=1439 (LC 1), 9=1502 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-3281/886. 3-4=-2759/782.

4-5=-2559/778, 5-6=-2557/786, 6-7=-2745/790, 7-9=-3271/893, 9-10=-5/0

1-15=-768/2983. 14-15=-768/2983.

12-14=-665/2722, 11-12=-771/2974

9-11=-771/2974

WFBS 3-15=0/210, 3-14=-490/221, 4-14=-88/498,

6-12=-82/497, 7-12=-482/219, 7-11=0/208,

5-12=-407/153, 5-14=-405/152

NOTES

BOT CHORD

1) Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 11-11-4, Exterior(2R) 11-11-4 to 19-0-2, Interior (1) 19-0-2 to 20-0-12, Exterior(2R) 20-0-12 to 27-1-10, Interior (1) 27-1-10 to 32-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearings are assumed to be: , Joint 9 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 279 lb uplift at joint 1 and 320 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



May 22,2024

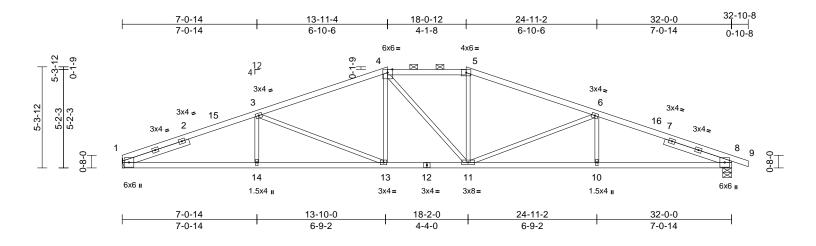
\Lambda WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	A17	Hip	1	1	Job Reference (optional)	165760533

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:02 ID:GMw5v9djdCcX28U2LMn1svzEAlp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:60.5

Plate Offsets (X, Y):	[1:0-3-0,0-	1-5], [8:0-3-	13,0-1-5]
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			-						-			
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	0.79	Vert(LL)	-0.22	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.44	13-14	>881	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.15	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 138 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E *Except* 4-5:2x4 SP

No.2

BOT CHORD 2x4 SP No.2 2x3 SPF No 2 WFBS

SLIDER Left 2x4 SP No.2 -- 3-8-5, Right 2x4 SP No.2

-- 3-8-5 **BRACING**

Structural wood sheathing directly applied or TOP CHORD

2-2-0 oc purlins, except

2-0-0 oc purlins (3-7-7 max.): 4-5. BOT CHORD Rigid ceiling directly applied or 6-9-12 oc

bracing.

REACTIONS (size) 1= Mechanical, 8=0-5-8

Max Horiz 1=95 (LC 12)

Max Uplift 1=-267 (LC 8), 8=-308 (LC 9)

Max Grav 1=1439 (LC 1), 8=1502 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-3263/851, 3-4=-2525/729, 4-5=-2323/745, 5-6=-2525/739,

6-8=-3256/862, 8-9=-5/0

BOT CHORD 1-14=-718/2986, 13-14=-718/2986

11-13=-498/2322, 10-11=-737/2978,

8-10=-737/2978 WFBS

3-14=0/292, 3-13=-754/257, 4-13=-34/392, 4-11=-222/224, 5-11=-46/386, 6-11=-746/255,

6-10=0/289

NOTES

1) Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 13-11-4, Exterior(2E) 13-11-4 to 18-0-12, Exterior(2R) 18-0-12 to 24-11-2, Interior (1) 24-11-2 to 32-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 8 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 267 lb uplift at joint 1 and 308 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

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



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	A18	Roof Special	1	1	Job Reference (optional)	165760534

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:03 ID:kZUT7VeLOWkOgl3Fv4IGP6zEAlo-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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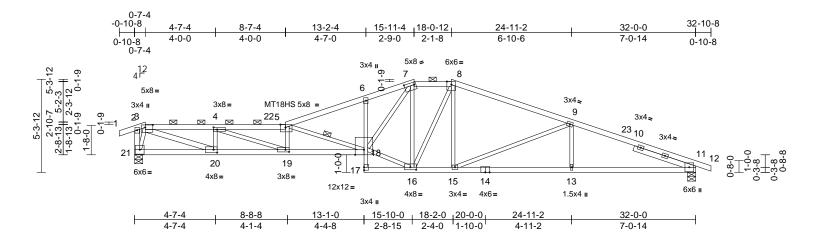


Plate Offsets (X, Y): [3:0-5-4,0-1-12], [4:0-2-8,0-1-8], [5:0-3-8,0-2-0], [7:0-6-12,0-1-12], [11:0-3-13,0-1-5], [16:0-4-0,0-1-12], [19:0-2-8,0-1-8], [20:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.45	18-19	>853	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.82	18-19	>468	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.17	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 152 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 3-5,8-12:2x4 SP

1650F 1.5E

2x4 SP No.2 *Except* 21-18:2x4 SP 2400F **BOT CHORD**

2.0E, 6-17:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 21-2:2x4 SP 1650F

1.5E, 20-3:2x4 SP No.2 Right 2x4 SP No.2 -- 3-8-5

SLIDER **BRACING**

TOP CHORD

BOT CHORD

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

2-0-0 oc purlins (2-5-8 max.): 3-5, 7-8.

Rigid ceiling directly applied or 6-11-2 oc bracing

1 Row at midpt 5-18

WEBS REACTIONS (size)

11=0-5-8, 21=0-5-8

Max Horiz 21=-114 (LC 13)

Max Uplift 11=-291 (LC 9), 21=-316 (LC 8)

Max Grav 11=1494 (LC 1), 21=1505 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23. 2-3=-90/58, 3-4=-3829/1044,

> 4-5=-5859/1522, 5-6=-3835/1015, 6-7=-3763/1061, 7-8=-2302/708,

8-9=-2506/712, 9-11=-3234/837, 11-12=-5/0,

2-21=-159/112

BOT CHORD 20-21=-70/466, 19-20=-921/3827,

18-19=-1382/5809, 17-18=0/58, 6-18=-192/164, 16-17=-31/104,

15-16=-495/2305, 13-15=-714/2957,

11-13=-714/2957

WEBS 5-19=-683/257, 5-18=-2334/616,

16-18=-482/2332, 7-18=-585/2228, 7-16=-816/216, 8-16=-218/207,

8-15=-30/395, 9-15=-760/252, 9-13=0/288,

4-19=-562/2151, 4-20=-1165/396,

3-20=-973/3591, 3-21=-1347/405

1) Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 7-8-2, Interior (1) 7-8-2 to 15-11-4, Exterior(2E) 15-11-4 to 18-0-12, Exterior(2R) 18-0-12 to 24-11-2, Interior (1) 24-11-2 to 32-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearings are assumed to be: Joint 21 SP 2400F 2.0E crushing capacity of 805 psi, Joint 11 SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 291 lb uplift at joint 11 and 316 lb uplift at joint 21.
- 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



NOTES

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

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



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	B1	Hip Girder	1	2	Job Reference (optional)	165760535

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:03 ID:kZUT7VeLOWkOgl3Fv4IGP6zEAlo-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

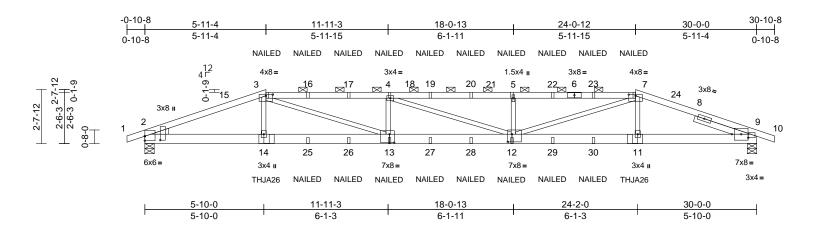


Plate Offsets (X, Y): [2:Edge,0-2-10], [2:0-2-5,0-9-1], [3:0-4-0,0-0-12], [7:0-4-0,0-0-12], [9:0-1-9,0-3-8], [9:0-9-10,0-2-2], [12:0-2-8,0-4-8], [13:0-2-12,0-5-0]

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	0.93	Vert(LL)	-0.34	12-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.61	12-13	>584	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 264 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x6 SPF No.2 *Except* 13-12:2x6 SP 2400F

2.0E

WFBS 2x3 SPF No.2 WEDGE Left: 2x4 SP No.2

Right 2x4 SP No.2 -- 2-10-6 **SLIDER**

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-13 oc purlins, except

2-0-0 oc purlins (4-1-1 max.): 3-7. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-5-8, 9=0-5-8

Max Horiz 2=-42 (LC 17)

Max Uplift 2=-749 (LC 8), 9=-749 (LC 9) Max Grav 2=2637 (LC 1), 9=2637 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/1. 2-3=-6553/1896. 3-4=-9192/2708.

4-5=-9201/2689, 5-7=-9236/2707,

7-9=-6378/1849, 9-10=0/1 **BOT CHORD** 2-14=-1686/6049, 11-14=-2571/9158,

9-11=-1654/5916

WEBS 3-14=-34/652, 7-11=0/558, 3-13=-969/3464,

7-12=-1015/3644, 4-13=-962/484,

4-12=-41/103, 5-12=-1021/516

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: 2x3 - 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.
- 3) 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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-11-4, Exterior(2R) 5-11-4 to 13-0-2, Interior (1) 13-0-2 to 24-0-12. Exterior(2E) 24-0-12 to 30-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 749 lb uplift at joint 2 and 749 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.
- 11) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply Right Hand Hip) or equivalent at 5-11-10 from the left end to connect truss(es) to back face of bottom chord.
- 12) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 24-0-6 from the left end to connect truss(es) to back face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.

14) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-7=-70, 7-10=-70, 2-9=-20 Concentrated Loads (lb)

Vert: 3=-131 (B), 14=-420 (B), 11=-420 (B), 7=-131 (B), 13=-39 (B), 12=-39 (B), 4=-131 (B), 5=-131 (B), 16=-131 (B), 17=-131 (B), 19=-131 (B), 20=-131 (B), 22=-131 (B), 23=-131 (B), 25=-39 (B), 26=-39 (B), 27=-39 (B), 28=-39 (B), 29=-39 (B), 30=-39 (B)



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

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



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	B2	Hip	1	1	Job Reference (optional)	165760536

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:03 ID:DI2rKrez9psFISeRTnqVxKzEAIn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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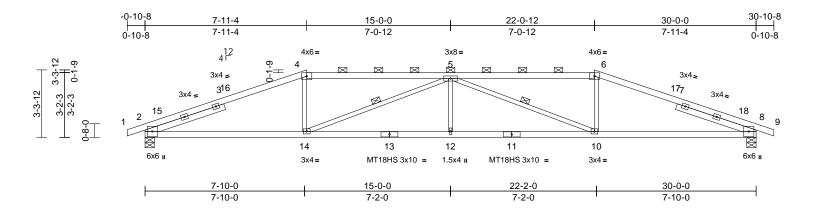


Plate Offsets (X, Y): [2:0-3-13,0-1-5], [8:0-3-13,0-1-5]

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	0.99	Vert(LL)	-0.27	12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.51	12-14	>708	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.15	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 124 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E

2x4 SP 1650F 1.5E *Except* 13-11:2x4 SP **BOT CHORD**

No.2

WFBS 2x3 SPF No 2

SLIDER Left 2x4 SP No.2 -- 4-1-2, Right 2x4 SP No.2

-- 4-1-2

BRACING TOP CHORD

Structural wood sheathing directly applied,

except

2-0-0 oc purlins (3-5-2 max.): 4-6. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

WEBS 1 Row at midpt 5-14. 5-10

REACTIONS (size) 2=0-5-8, 8=0-5-8

Max Horiz 2=-54 (LC 17)

Max Uplift 2=-319 (LC 8), 8=-319 (LC 9)

Max Grav 2=1411 (LC 1), 8=1411 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-2=-5/0, 2-4=-2989/766, 4-5=-2711/762,

TOP CHORD

5-6=-2711/762, 6-8=-2989/766, 8-9=-5/0

BOT CHORD 2-14=-617/2727, 12-14=-858/3631,

10-12=-858/3631, 8-10=-624/2727

WEBS 4-14=-12/586, 5-14=-1170/284, 5-12=0/269,

5-10=-1170/283, 6-10=-12/586

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 7-11-4, Exterior(2R) 7-11-4 to 15-0-0, Interior (1) 15-0-0 to 22-0-12, Exterior(2R) 22-0-12 to 29-1-10, Interior (1) 29-1-10 to 30-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All bearings are assumed to be SP 1650F 1.5E crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 319 lb uplift at joint 2 and 319 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



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

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



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	B3	Hip	1	1	Job Reference (optional)	165760537

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:03 ID:DI2rKrez9psFISeRTnqVxKzEAIn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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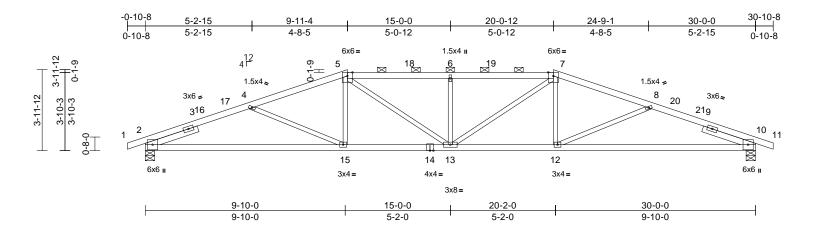


Plate Offsets (X, Y): [2:0-3-13,0-1-5], [10:0-3-13,0-1-5], [10:Edge,0-0-0]

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	0.85	Vert(LL)	-0.25	2-15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.54	2-15	>661	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.12	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 128 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP 1650F 1.5E 2x3 SPF No.2 WEBS

SLIDER Left 2x4 SP No.2 -- 2-8-8, Right 2x4 SP No.2 -- 2-8-8

BRACING

TOP CHORD Structural wood sheathing directly applied or

> 2-2-0 oc purlins, except 2-0-0 oc purlins (3-1-0 max.): 5-7.

BOT CHORD Rigid ceiling directly applied or 8-0-15 oc

bracing.

REACTIONS (size) 2=0-5-8, 10=0-5-8

Max Horiz 2=-67 (LC 17)

Max Uplift 2=-310 (LC 8), 10=-310 (LC 9) Max Grav 2=1411 (LC 1), 10=1411 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-2965/876, 4-5=-2701/736,

5-6=-2880/867, 6-7=-2880/867,

7-8=-2701/736, 8-10=-2965/876, 10-11=-5/0 **BOT CHORD**

2-15=-759/2687, 13-15=-568/2532 12-13=-564/2532, 10-12=-756/2687

WEBS 5-15=0/351, 5-13=-187/570, 6-13=-448/227,

7-13=-188/570, 7-12=0/351, 4-15=-194/230,

8-12=-194/231

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 9-11-4, Exterior(2R) 9-11-4 to 17-0-2, Interior (1) 17-0-2 to 20-0-12, Exterior(2R) 20-0-12 to 27-1-10, Interior (1) 27-1-10 to 30-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All bearings are assumed to be SP 1650F 1.5E crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 310 lb uplift at joint 2 and 310 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



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

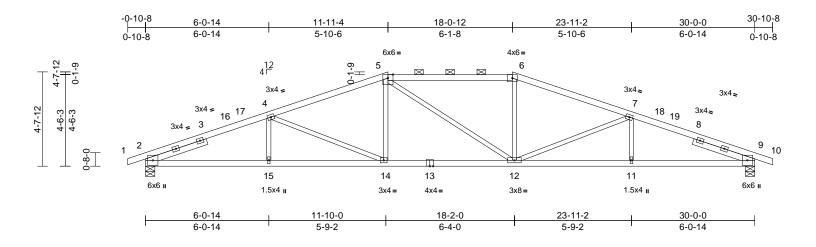
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	B4	Hip	1	1	Job Reference (optional)	165760538

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:04 ID:hxcEYAfbw7_6vcDd0VLkUXzEAIm-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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												_
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.20	14-15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.38	12-14	>945	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.13	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 129 lb	FT = 20%

LUMBER

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

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

-- 3-2-0

BRACING

TOP CHORD Structural wood sheathing directly applied,

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

BOT CHORD Rigid ceiling directly applied or 6-10-7 oc

bracing.

REACTIONS (size) 2=0-5-8, 9=0-5-8

Max Horiz 2=79 (LC 12)

Max Uplift 2=-298 (LC 8), 9=-298 (LC 9) Max Grav 2=1411 (LC 1), 9=1411 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum

Tension
TOP CHORD 1-2=-5/0, 2-4=-3028/823, 4-5=-2489/736,

5-6=-2306/761, 6-7=-2490/758,

7-9=-3027/850, 9-10=-5/0 2-15=-709/2752, 14-15=-709/2752

12-14=-535/2305. 11-12=-731/2752.

9-11=-731/2752

WEBS 4-15=0/228, 4-14=-517/211, 5-14=-9/365,

5-12=-221/222, 6-12=-11/365,

7-12=-517/212, 7-11=0/227

NOTES

BOT CHORD

 Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 11-11-4, Exterior(2E) 11-11-4 to 18-0-12, Exterior(2R) 18-0-12 to 25-1-10, Interior (1) 25-1-10 to 30-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 298 lb uplift at joint 2 and 298 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



May 22,2024

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

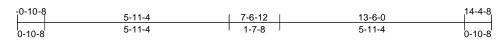
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	C1	Hip Girder	1	1	Job Reference (optional)	165760539

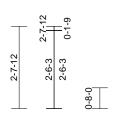
Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:04 ID:hxcEYAfbw7_6vcDd0VLkUXzEAIm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

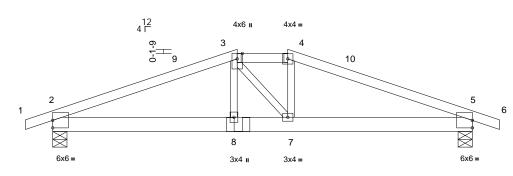
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NAILED

NAILED





THJA26 Special 5-10-0 7-8-0 13-6-0 5-10-0 1-10-0 5-10-0

Plate Offsets (X, Y): [2:Edge,0-2-14], [5:Edge,0-2-14]

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	0.98	Vert(LL)	-0.07	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.12	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 53 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-7-4 oc purlins, except

2-0-0 oc purlins (3-9-1 max.): 3-4.

BOT CHORD Rigid ceiling directly applied or 8-3-2 oc

bracing.

REACTIONS (size) 2=0-5-8, 5=0-5-8

Max Horiz 2=-42 (LC 34)

Max Uplift 2=-352 (LC 8), 5=-352 (LC 9)

Max Grav 2=1216 (LC 1), 5=1216 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=0/1, 2-3=-2527/918, 3-4=-2267/920,

TOP CHORD 4-5=-2534/923, 5-6=0/1

BOT CHORD 2-8=-752/2285, 7-8=-748/2261,

5-7=-764/2292

3-8=-87/521, 3-7=-122/143, 4-7=-102/579 WEBS

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-11-4, Exterior(2E) 5-11-4 to 14-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 352 lb uplift at joint 2 and 352 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie THJA26 (THJA26 on 1 ply, Left Hand Hip) or equivalent at 5-11-10 from the left end to connect truss(es) to front face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 11) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 420 lb down and 109 lb up at 7-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

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

Concentrated Loads (lb)

Vert: 3=-131 (F), 4=-131 (F), 8=-420 (F), 7=-420 (F)



May 22,2024

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

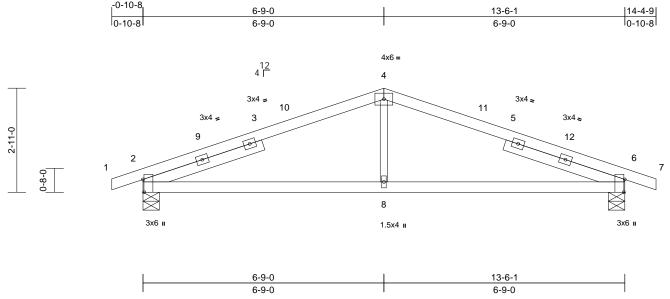
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	C2	Common	1	1	Job Reference (optional)	165760540

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:04 ID:CgIZsEQccSIKVdlkckm4o8zbfHB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:32.3

Plate Offsets (X, Y):	[2:0-4-5,Edge],	[6:0-4-5,Edge]
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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	0.69	Vert(LL)	-0.05	6-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.10	6-8	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 3-6-5, Right 2x4 SP No.2

-- 3-6-5

BRACING TOP CHORD Structural wood sheathing directly applied or

4-8-11 oc purlins.

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

bracing.

REACTIONS (size) 2=0-5-8, 6=0-5-8

Max Horiz 2=-48 (LC 17)

Max Uplift 2=-147 (LC 8), 6=-147 (LC 9)

Max Grav 2=669 (LC 1), 6=669 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-5/0, 2-4=-998/439, 4-6=-998/439,

6-7=-5/0

BOT CHORD 2-8=-304/864, 6-8=-304/864

WEBS 4-8=0/307

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 6-9-0, Exterior(2R) 6-9-0 to 11-9-0, Interior (1) 11-9-0 to 14-4-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 2 and 147 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.

LOAD CASE(S) Standard

OF MISSO NATHANIEL **FOX** MBER PE-2022042259 SIONAL

May 22,2024

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

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



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	C3	Common Girder	1	2	Job Reference (optional)	165760541

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:04 ID:ROLzIJXFVDQ24?xTe7QBf2zbfH2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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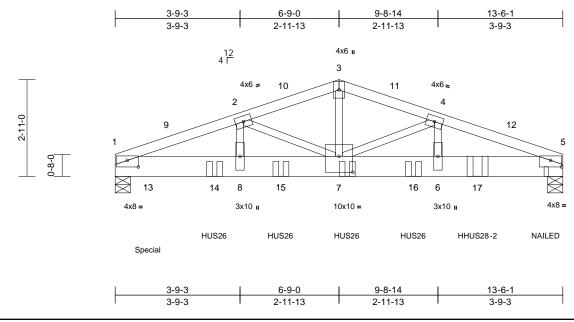


Plate Offsets (X, Y): [1:0-4-0,0-2-6], [5:0-4-0,0-2-6], [7:0-5-0,0-5-12]

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	0.69	Vert(LL)	-0.11	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.19	6-7	>813	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 142 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x8 SP 2400F 2.0E 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-2-4 oc purlins.

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

bracing.

REACTIONS 1=0-5-8, 5=0-5-8 (size)

Max Horiz 1=46 (LC 16)

Max Uplift 1=-1142 (LC 8), 5=-1294 (LC 9) Max Grav 1=5604 (LC 1), 5=5540 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-9784/2388, 2-3=-8189/2091, 3-4=-8188/2090, 4-5=-10475/2729

1-8=-2149/8997, 7-8=-2149/8997, BOT CHORD 6-7=-2466/9634, 5-6=-2466/9634

2-8=-258/1629, 2-7=-1431/345,

3-7=-1167/4870, 4-7=-2141/696,

4-6=-544/2214

NOTES

WFBS

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: 2x8 - 2 rows staggered at 0-4-0 oc.

- Web connected as follows: 2x3 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-12 to 5-2-12, Interior (1) 5-2-12 to 6-9-0, Exterior(2R) 6-9-0 to 11-9-0, Interior (1) 11-9-0 to 13-3-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1142 lb uplift at joint 1 and 1294 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.
- Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 3-0-0 from the left end to 9-0-0 to connect truss(es) to back face of bottom chord.
- 10) Use Simpson Strong-Tie HHUS28-2 (22-16d Girder, 4-16d Truss) or equivalent at 10-11-3 from the left end to connect truss(es) to back face of bottom chord.
- 11) WARNING: The following hangers are manually applied but fail due to geometric considerations: HUS26 on back face at 3-0-0 from the left end, HUS26 on back face at 5-0-0 from the left end, HUS26 on back face at 7-0-0 from the left end. HUS26 on back face at 9-0-0 from the left end. HHUS28-2 on back face at 10-11-3 from the left end
- 12) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1421 lb down and 262 lb up at 1-0-0, and 158 lb down and 30 lb up at 13-3-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-5=-70, 1-5=-20

Concentrated Loads (lb)

Vert: 5=-158 (B), 7=-1419 (B), 13=-1421 (B),

14=-1419 (B), 15=-1419 (B), 16=-1419 (B),

17=-2714 (B)



May 22,2024

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

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



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	CG1	Diagonal Hip Girder	6	1	Job Reference (optional)	165760542

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:04 ID:GMw5v9djdCcX28U2LMn1svzEAlp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

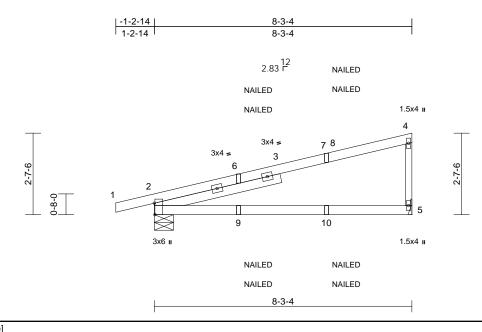


Plate Offsets (X, Y): [2:0-4-6,Edge]

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	0.94	Vert(LL)	-0.22	2-5	>454		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.43	2-5	>227	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E **BOT CHORD** 2x4 SP 2400F 2.0E 2x3 SPF No.2 WEBS

SLIDER Left 2x4 SP No.2 -- 4-1-15

BRACING

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

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

bracing.

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

Max Horiz 2=103 (LC 28)

Max Uplift 2=-149 (LC 8), 5=-115 (LC 12) Max Grav 2=484 (LC 1), 5=410 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-6/0, 2-4=-140/82, 4-5=-315/306

BOT CHORD 2-5=-47/51

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-2-14 to 5-10-0, Exterior(2R) 5-10-0 to 8-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 5 and 149 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.

- 7) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- 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: 1-4=-70, 2-5=-20 Concentrated Loads (lb)
 - Vert: 7=-53 (F=-26, B=-26), 10=-19 (F=-10, B=-10)



May 22,2024

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

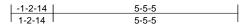
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value for see only with recks confined in the segment of the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

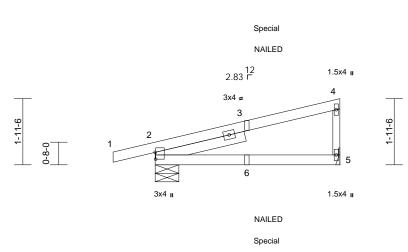


Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	CG2	Diagonal Hip Girder	2	1	Job Reference (optional)	165760543

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:04 $ID: BkAIXI8NKwbqkP3q_IYbFQzE?MM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$

Page: 1





Scale = 1:33.9

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

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	0.68	Vert(LL)	-0.05	2-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.10	2-5	>657	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 24 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 2-8-8

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 2=0-8-6, 5= Mechanical

Max Horiz 2=73 (LC 9)

Max Uplift 2=-111 (LC 8), 5=-54 (LC 12) Max Grav 2=337 (LC 1), 5=230 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-6/0, 2-4=-95/60, 4-5=-177/225

BOT CHORD 2-5=-34/36

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 5 and 111 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.

- 7) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- 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: 1-4=-70, 2-5=-20

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May 22,2024

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

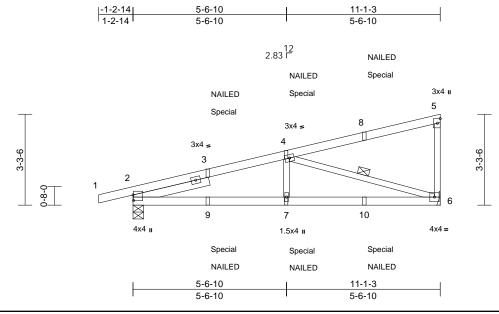
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	CG3	Diagonal Hip Girder	2	1	Job Reference (optional)	165760544

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Scale = 1:41.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.06	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.14	6-7	>953	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 47 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E BOT CHORD 2x4 SP No.2 WEBS 2x3 SPF No.2

SLIDER Left 2x4 SP No.2 -- 2-9-12

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-14 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-5-13 oc

bracing

WEBS 1 Row at midpt 4-6

REACTIONS (size) 2=0-4-9, 6= Mechanical

Max Horiz 2=134 (LC 11)

Max Uplift 2=-205 (LC 8), 6=-209 (LC 12)

Max Grav 2=684 (LC 1), 6=722 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum Tension

Tension

TOP CHORD 1-2=-6/0, 2-4=-1363/504, 4-5=-131/73,

5-6=-260/176

BOT CHORD 2-7=-594/1268, 6-7=-594/1268 WEBS 4-7=0/353, 4-6=-1279/569

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-2-14 to 5-6-10, Exterior(2R) 5-6-10 to 10-11-15 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 ŚP No.2 crushing capacity of 565 psi.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 209 lb uplift at joint 6 and 205 lb uplift at joint 2.

- 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.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-5=-70, 2-6=-20

Concentrated Loads (lb) Vert: 4=-53 (F=-26, B=-26), 7=-19 (F=-10, B=-10), 8=-198 (F=-99, B=-99), 10=-59 (F=-30, B=-30)



May 22,2024

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

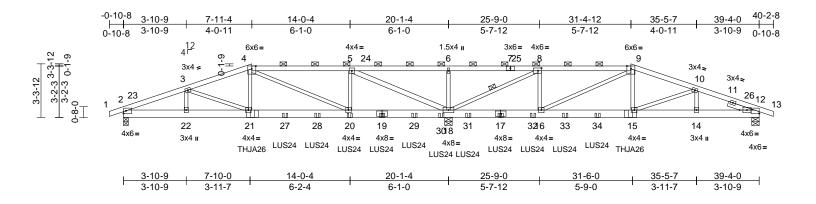
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	D1	Hip Girder	1	2	Job Reference (optional)	165760545

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:05 ID:BkAIXI8NKwbqkP3q_IYbFQzE?MM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:71.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	1./d	PLATES	GRIP
Loading	(psi)	Spacing	2-0-0	CSI		DELL	ın	(100)	i/deli	L/u	PLATES	GKIF
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.10	20-21	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.17	20-21	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.06	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 358 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 5-18:2x4 SP No.2 WEBS

SLIDER Right 2x4 SP No.2 -- 1-8-2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 4-9 Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

WFBS 1 Row at midpt 8-18

REACTIONS 2=0-3-8, 12=0-5-8, 18=0-5-8 (size)

Max Horiz 2=54 (LC 12)

Max Uplift 2=-481 (LC 8), 12=-449 (LC 9),

18=-1669 (LC 8)

Max Grav 2=1698 (LC 25), 12=1569 (LC 26),

18=6079 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/1, 2-3=-3648/1049, 3-4=-3794/1141,

4-5=-2199/693. 5-6=-707/2580. 6-8=-707/2580, 8-9=-1695/552

9-10=-3355/1016, 10-12=-3108/899, 12-13=0/1

BOT CHORD 2-22=-925/3314, 21-22=-925/3314,

> 20-21=-951/3525, 18-20=-564/2197 16-18=-412/1693, 15-16=-837/3126

14-15=-781/2829, 12-14=-781/2829 WEBS 4-21=-385/1445, 9-15=-372/1393,

6-18=-445/192, 9-16=-1640/517, 8-16=-421/1688, 8-18=-4696/1398

5-18=-5194/1539, 4-20=-1498/479, 5-20=-422/1720, 3-21=-253/502, 10-15=-233/558, 10-14=-199/119,

3-22=-107/95

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 OC.

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

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-10-9, Interior (1) 3-10-9 to 7-11-4, Exterior(2R) 7-11-4 to 15-0-2, Interior (1) 15-0-2 to 31-4-12, Exterior(2R) 31-4-12 to 38-5-10, Interior (1) 38-5-10 to 40-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 481 lb uplift at joint 2, 449 lb uplift at joint 12 and 1669 lb uplift at joint 18.
- 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.
- 11) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 7-11-10 from the left end to connect truss(es) to front face of bottom chord.
- 12) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 10-0-0 from the left end to 29-4-0 to connect truss(es) to front face of bottom chord.
- 13) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply Right Hand Hip) or equivalent at 31-4-6 from the left end to connect truss(es) to front face of bottom chord.



Continued on page 2

· Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	D1	Hip Girder	1	2	Job Reference (optional)	165760545

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Page: 2

LOAD CASE(S) Standard

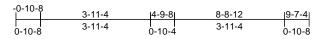
Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-4=-70, 4-9=-70, 9-13=-70, 2-12=-20 Concentrated Loads (lb)

Vert: 19=-329 (F), 21=-1023 (F), 15=-1023 (F), 17=-329 (F), 20=-329 (F), 27=-329 (F), 28=-329 (F), 29=-329 (F), 30=-329 (F), 31=-329 (F), 32=-329 (F), 33=-329 (F), 34=-329 (F)

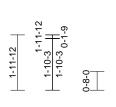
ſ	Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
	P250017-01	E1	Hip Girder	1	1	Job Reference (optional)	165760546

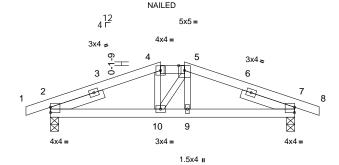
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Page: 1



NAILED





Special

	4-10-12		
3-10-0		8-8-12	
3-10-0	1-0-12	3-10-0	

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

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	0.69	Vert(LL)	-0.03	9-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.06	9	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 39 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-11-13, Right 2x4 SP

No.2 -- 1-11-13

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-3 oc purlins, except

2-0-0 oc purlins (5-5-14 max.): 4-5. **BOT CHORD** Rigid ceiling directly applied or 9-3-0 oc

bracing.

REACTIONS (size) 2=0-3-8, 7=0-3-8 Max Horiz 2=29 (LC 12)

Max Uplift 2=-220 (LC 8), 7=-220 (LC 9)

Max Grav 2=733 (LC 1), 7=733 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-5/0, 2-4=-1334/530, 4-5=-1171/535,

5-7=-1329/530. 7-8=-5/0

2-10=-407/1188, 9-10=-406/1168, BOT CHORD

7-9=-408/1185

WFBS 4-10=-40/302. 5-10=-42/53. 5-9=-28/270

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 220 lb uplift at joint 2 and 220 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 221 lb down and 60 lb up at 3-11-4, and 221 lb down and 60 lb up at 4-8-12 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: 1-4=-70, 4-5=-70, 5-8=-70, 2-7=-20

Concentrated Loads (lb)

Vert: 4=-59 (F), 5=-59 (F), 10=-221 (F), 9=-221 (F)



May 22,2024

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

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

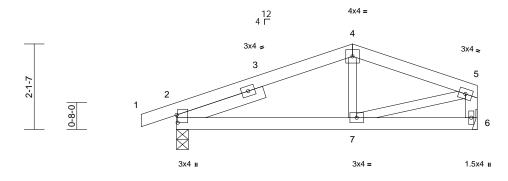


Job		Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017	7-01	E2	Common	1	1	Job Reference (optional)	165760547

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:05 ID:Dgu00kllKKflbcSRI41v?AzXS?3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





4-4-6 7-5-8 4-4-6 3-1-2

Scale = 1:28.6

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

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	0.39	Vert(LL)	-0.01	2-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.03	2-7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 20%

LUMBER

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

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

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

BRACING

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

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

bracing.

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

Max Horiz 2=34 (LC 12)

Max Uplift 2=-103 (LC 8), 6=-53 (LC 9) Max Grav 2=394 (LC 1), 6=325 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-429/254, 4-5=-374/275,

5-6=-307/263

BOT CHORD 2-7=-238/330, 6-7=-17/19

WEBS 4-7=-2/118, 5-7=-235/343

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 2 and 53 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.

LOAD CASE(S) Standard



May 22,2024

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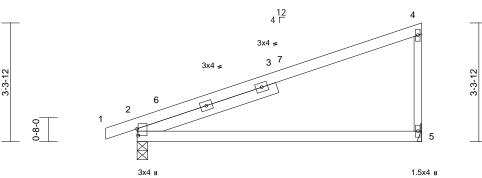


ſ	Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
	P250017-01	J1	Jack-Closed	13	1	Job Reference (optional)	165760548

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Page: 1





7-11-4

Scale = 1:32.1

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

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	0.99	Vert(LL)	-0.23	2-5	>416	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.45	2-5	>208	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 34 lb	FT = 20%

LOAD CASE(S) Standard

LUMBER TOP CHORD 2x4 SP 1650F 1.5E 2x4 SP No.2 **BOT CHORD** 2x3 SPF No.2 WEBS

SLIDER Left 2x4 SP No.2 -- 4-1-2

BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-10-2 oc

bracing.

REACTIONS (size) 2=0-3-8, 5= Mechanical

Max Horiz 2=140 (LC 9)

Max Uplift 2=-108 (LC 8), 5=-88 (LC 12) Max Grav 2=417 (LC 1), 5=349 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-2=-5/0, 2-4=-173/108, 4-5=-271/327

TOP CHORD

BOT CHORD 2-5=-61/67

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 7-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 5 and 108 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.



May 22,2024

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

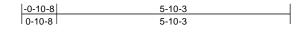
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

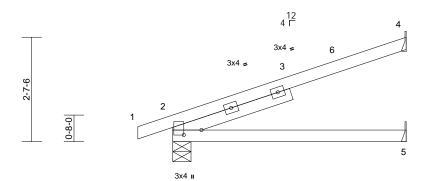


Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	J2	Jack-Open	4	1	Job Reference (optional)	165760549

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5-10-3

Scale = 1:28.9

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

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	0.76	Vert(LL)	-0.07	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.13	2-5	>516	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 24 lb	FT = 20%

LUMBER

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

Left 2x4 SP No.2 -- 3-1-4 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-10-3 oc purlins.

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

bracing.

REACTIONS (size) 2=0-5-8, 4= Mechanical, 5=

Mechanical Max Horiz 2=97 (LC 12)

Max Uplift 2=-80 (LC 8), 4=-110 (LC 12) Max Grav 2=326 (LC 1), 4=198 (LC 1), 5=116

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-104/49

BOT CHORD 2-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-9-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 4 and 80 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



May 22,2024

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

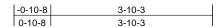


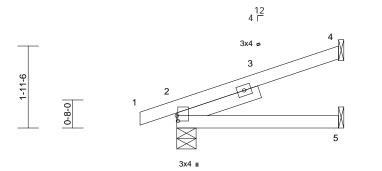
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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	J3	Jack-Open	15	1	Job Reference (optional)	165760550

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:05 ID:XgLdgMJb9VhkPZo1PqP1dSzbfea-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





3-10-3

Scale = 1:27.4

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

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	0.32	Vert(LL)	-0.01	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 2-0-10

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-3 oc purlins.

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

bracing.

REACTIONS (size) 2=0-5-8, 4= Mechanical, 5=

Mechanical Max Horiz 2=68 (LC 12)

Max Uplift 2=-67 (LC 8), 4=-73 (LC 12) Max Grav 2=239 (LC 1), 4=125 (LC 1), 5=76

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-76/31

BOT CHORD 2-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 4 and 67 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



May 22,2024

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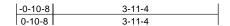
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

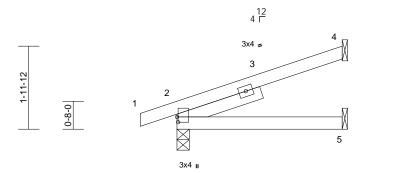


Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	J4	Jack-Open	2	1	Job Reference (optional)	165760551

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Page: 1





3-11-4

Scale = 1:27.5

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

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	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.03	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%

LUMBER

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

Left 2x4 SP No.2 -- 2-1-3 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-11-4 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 4= Mechanical, 5=

Mechanical Max Horiz 2=70 (LC 12)

Max Uplift 2=-68 (LC 8), 4=-74 (LC 12)

Max Grav 2=243 (LC 1), 4=129 (LC 1), 5=78 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-5/0, 2-4=-76/32

BOT CHORD 2-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 4 and 68 lb uplift at joint 2.

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

LOAD CASE(S) Standard



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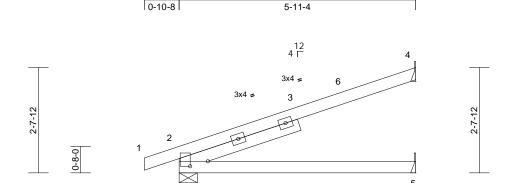
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	J6	Jack-Open	23	1	Job Reference (optional)	165760552

-0-10-8

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

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Page: 1



5-11-4

5-11-4

Scale = 1:28.9

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

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	0.78	Vert(LL)	-0.07	2-5	>987	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.14	2-5	>493	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 24 lb	FT = 20%

LUMBER

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

Left 2x4 SP No.2 -- 3-1-13 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-4 oc purlins.

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

bracing.

REACTIONS (size) 2=0-5-8, 4= Mechanical, 5= Mechanical

Max Horiz 2=99 (LC 12)

Max Uplift 2=-81 (LC 8), 4=-111 (LC 12) Max Grav 2=330 (LC 1), 4=201 (LC 1), 5=118

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-105/50

BOT CHORD 2-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 4 and 81 lb uplift at joint 2.

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

LOAD CASE(S) Standard



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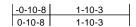
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



	Job	Truss	Truss Type	Qty Ply Roof - HM Lot 205		Roof - HM Lot 205	
١	P250017-01	J7	Jack-Open	20	1	Job Reference (optional)	165760553

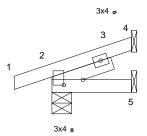
Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:06 ID:snFyH7bqKHEyBhITgEEKEGzEAIs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



12 4 F

1-3-6





1-10-3

Scale = 1:26.8

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

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	0.06	Vert(LL)	0.00	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 9 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-5-8

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-10-3 oc purlins.

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

bracing.

REACTIONS (size) 2=0-5-8, 4= Mechanical, 5=

Mechanical Max Horiz 2=40 (LC 12)

Max Uplift 2=-57 (LC 8), 4=-35 (LC 12) Max Grav 2=158 (LC 1), 4=50 (LC 1), 5=37

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-43/16

BOT CHORD 2-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 2 and 35 lb uplift at joint 4.

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



May 22,2024

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

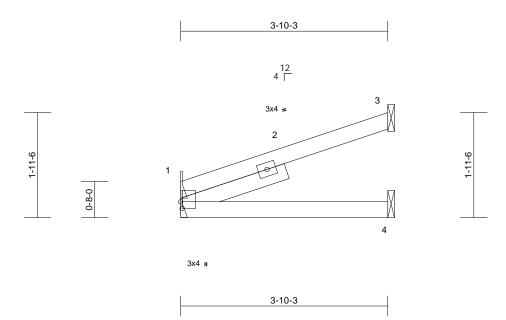
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type		Ply	Roof - HM Lot 205	
P250017-01	J8	Jack-Open	1	1	Job Reference (optional)	165760554

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:06 ID:snFyH7bqKHEyBhITgEEKEGzEAIs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:21.4

Plate Offsets ()	(, Y):	[1:0-1-8,0-0-5]
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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	0.36	Vert(LL)	-0.01	1-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	1-4	>999	180		
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-P							Weight: 15 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 2-0-10

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-3 oc purlins.

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

bracing.

REACTIONS (size) 1= Mechanical, 3= Mechanical, 4= Mechanical

Max Horiz 1=71 (LC 8)

Max Uplift 1=-22 (LC 8), 3=-75 (LC 8) Max Grav 1=170 (LC 1), 3=133 (LC 1), 4=76

(LC 3)

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-78/33 BOT CHORD 1-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1 and 75 lb uplift at joint 3.
- 6) N/A

- 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



May 22,2024

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

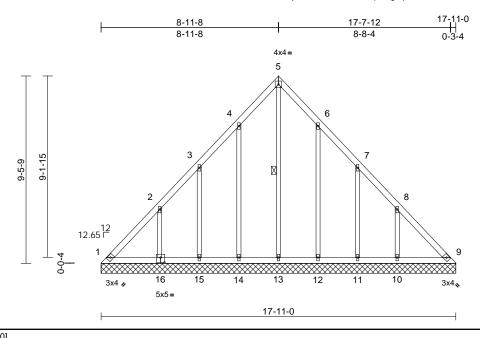
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	LG1	Lay-In Gable	1	1	Job Reference (optional)	165760555

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:06 ID:Obha4naCZz56aXAH6Xj5i3zEAlt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:58.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%

LUMBER

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

WEBS 1 Row at midpt 5-13

REACTIONS (size) 1=17-11-0, 9=17-11-0, 10=17-11-0,

11=17-11-0, 12=17-11-0, 13=17-11-0, 14=17-11-0, 15=17-11-0, 16=17-11-0

Max Horiz 1=-258 (LC 8)

Max Uplift 1=-75 (LC 10), 9=-39 (LC 11),

10=-186 (LC 13), 11=-126 (LC 13), 12=-135 (LC 13), 14=-137 (LC 12), 15=-125 (LC 12), 16=-183 (LC 12)

Max Grav 1=218 (LC 21), 9=198 (LC 22), 10=284 (LC 20), 11=182 (LC 20),

12=219 (LC 20), 13=204 (LC 13), 14=222 (LC 19), 15=179 (LC 19),

16=282 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-326/207, 2-3=-178/135, 3-4=-145/110,

4-5=-177/178, 5-6=-177/167, 6-7=-104/74, 7-8=-145/83, 8-9=-295/203

BOT CHORD 1-15=-168/251, 14-15=-168/251,

13-14=-168/251, 12-13=-168/251, 11-12=-168/251, 10-11=-168/251,

9-10=-168/251

WEBS 5-13=-180/126, 4-14=-185/161,

3-15=-174/150, 2-16=-241/204, 6-12=-185/158, 7-11=-174/151,

8-10=-244/206

- 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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-1 to 5-4-1, Interior (1) 5-4-1 to 8-11-12, Exterior(2R) 8-11-12 to 13-11-12, Interior (1) 13-11-12 to 17-7-7 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 1, 39 lb uplift at joint 9, 137 lb uplift at joint 14, 125 lb uplift at joint 15, 183 lb uplift at joint 16, 135 lb uplift at joint 12, 126 lb uplift at joint 11 and 186 lb uplift at joint 10.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



May 22,2024

NOTES

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

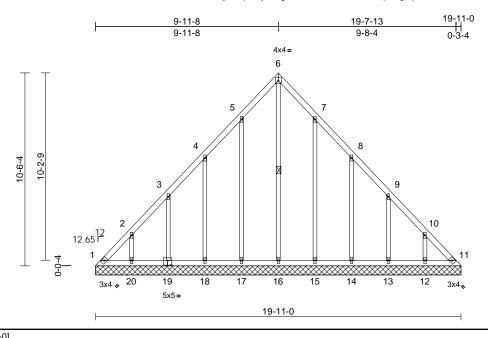
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job		Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P25	0017-01	LG2	Lay-In Gable	1	1	Job Reference (optional)	165760556

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:06 ID:snFyH7bqKHEyBhlTgEEKEGzEAls-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.8 Plate Offsets (X, Y): [19:0-2-8,0-3-0]

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horiz(TL)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 110 lb	FT = 20%

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

WEBS 1 Row at midpt 6-16

REACTIONS (size) 1=19-11-0, 11=19-11-0, 12=19-11-0, 13=19-11-0,

14=19-11-0, 15=19-11-0, 16=19-11-0, 17=19-11-0, 18=19-11-0, 19=19-11-0,

20=19-11-0 Max Horiz 1=288 (LC 9)

1=-132 (LC 10), 11=-88 (LC 11), Max Uplift

12=-138 (LC 13), 13=-135 (LC 13), 14=-143 (LC 13), 15=-128 (LC 13), 17=-131 (LC 12), 18=-141 (LC 12),

19=-136 (LC 12), 20=-139 (LC 12) Max Grav

1=285 (LC 12), 11=255 (LC 13), 12=209 (LC 20), 13=206 (LC 20), 14=207 (LC 20), 15=212 (LC 20),

16=231 (LC 13), 17=215 (LC 19), 18=206 (LC 19), 19=208 (LC 19),

20=208 (LC 19) **FORCES** (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-411/253, 2-3=-284/195, 3-4=-177/143, 4-5=-150/134, 5-6=-194/198, 6-7=-194/185, 7-8=-105/94, 8-9=-134/84, 9-10=-242/148,

10-11=-369/250

BOT CHORD

1-20=-189/282, 18-20=-189/283, 17-18=-187/282, 16-17=-187/282, 15-16=-187/282, 14-15=-187/282, 13-14=-187/282, 12-13=-187/282, 11-12=-187/281 6-16=-207/148, 5-17=-176/155,

4-18=-191/165, 3-19=-186/162, 2-20=-181/155, 7-15=-176/152, 8-14=-191/166, 9-13=-185/160,

10-12=-181/155

NOTES

WEBS

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

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-1 to 5-4-1. Interior (1) 5-4-1 to 9-11-12, Exterior(2R) 9-11-12 to 14-11-12, Interior (1) 14-11-12 to 19-7-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip

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 1.5x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

6) Gable studs spaced at 2-0-0 oc.

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

All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 1, 88 lb uplift at joint 11, 131 lb uplift at joint 17, 141 Ib uplift at joint 18, 136 lb uplift at joint 19, 139 lb uplift at joint 20, 128 lb uplift at joint 15, 143 lb uplift at joint 14, 135 lb uplift at joint 13 and 138 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



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

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



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	LG3	Lay-In Gable	1	1	Job Reference (optional)	165760557

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:06 ID:wk3hL3Kb73S07OfuGUaQwOzEDSc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

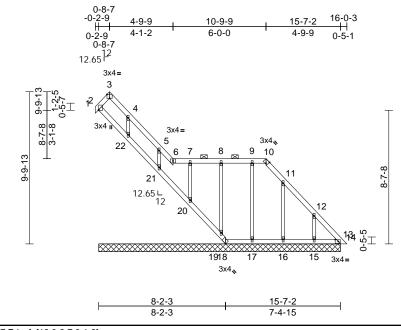


Plate Offsets (X, Y): [3:Edge,0-3-0], [10:0-1-7,Edge], [13:0-2-7,0-1-8]

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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 77 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 2x3 SPF No.2 **OTHERS**

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

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

bracing.

REACTIONS (size) 2=15-7-2, 13=15-7-2, 15=15-7-2, 16=15-7-2, 17=15-7-2, 18=15-7-2,

19=15-7-2, 20=15-7-2, 21=15-7-2, 22=15-7-2

Max Horiz 2=-394 (LC 13)

Max Uplift 2=-73 (LC 11), 13=-57 (LC 11),

15=-148 (LC 13), 16=-155 (LC 13), 17=-98 (LC 13), 18=-339 (LC 13), 19=-50 (LC 9), 20=-39 (LC 9),

21=-130 (LC 13)

Max Grav 2=279 (LC 13), 13=250 (LC 13), 15=216 (LC 20), 16=201 (LC 20),

17=175 (LC 26), 18=129 (LC 11), 19=174 (LC 1), 20=190 (LC 1), 21=205 (LC 20), 22=163 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/0. 2-3=-57/46. 3-4=-113/115.

4-5=-83/76, 5-6=-55/50, 6-7=-49/31 7-8=-49/31, 8-9=-49/31, 9-10=-49/31, 10-11=-90/48, 11-12=-229/180,

12-13=-363/292, 13-14=0/2 **BOT CHORD** 2-22=-311/389, 21-22=-336/425

20-21=-330/415, 19-20=-331/420, 18-19=-335/452, 17-18=-218/282, 16-17=-218/282, 15-16=-218/282,

13-15=-218/282

WEBS

8-19=-136/67, 7-20=-148/63, 5-21=-183/144, 4-22=-122/38, 9-17=-150/118, 11-16=-202/182, 12-15=-192/162

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 5-0-2, Exterior(2N) 5-0-2 to 11-0-2, Corner(3E) 11-0-2 to 16-0-5 zone: cantilever left and right exposed : end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 8) chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 2, 339 lb uplift at joint 18, 57 lb uplift at joint 13, 50 lb uplift at joint 19, 39 lb uplift at joint 20, 130 lb uplift at joint 21, 98 lb uplift at joint 17, 155 lb uplift at joint 16 and 148 lb uplift at joint 15.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 19, 20, 21, 22.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

LOAD CASE(S) Standard



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

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

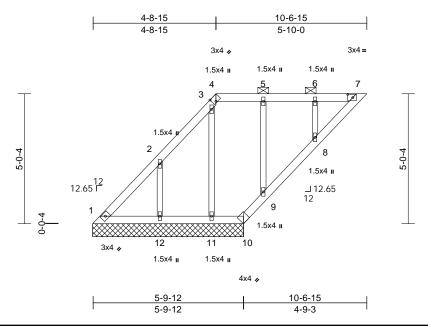
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing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

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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	LG4	Lay-In Gable	1	1	Job Reference (optional)	165760558

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:06 ID:dvGYZiveSrIFFIk2FuacAUzbfN0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:44.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 46 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x3 SPF No.2 **OTHERS**

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

8-7-12 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 4-7.

Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=5-10-0, 10=5-10-0, 11=5-10-0,

12=5-10-0

Max Horiz 1=215 (LC 9)

Max Uplift 1=-132 (LC 26), 10=-274 (LC 9),

11=-81 (LC 9), 12=-175 (LC 12) 1=217 (LC 9), 10=560 (LC 26), Max Grav

11=206 (LC 1), 12=257 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-461/295, 2-3=-331/295, 3-4=-84/58 4-5=-162/160, 5-6=-163/161, 6-7=-162/161

BOT CHORD 1-12=-167/35, 11-12=-167/35,

10-11=-167/35, 9-10=-431/192, 8-9=-242/98,

7-8=-223/179

WEBS 6-8=-94/58, 5-9=-232/144, 3-11=-309/287,

2-12=-237/195

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=35ft; Ke=1.00: Cat. II: Exp C: Enclosed: MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-1 to 4-9-3, Exterior(2R) 4-9-3 to 9-9-3, Interior (1) 9-9-3 to 10-3-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated. 5)
- Gable studs spaced at 2-0-0 oc. 6)
- This truss has been designed for a 10.0 psf bottom 7) chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 1, 274 lb uplift at joint 10, 81 lb uplift at joint 11 and 175 lb uplift at joint 12.
- 10) N/A
- 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



May 22,2024

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

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



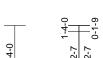
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	M1	Half Hip	1	1	Job Reference (optional)	165760559

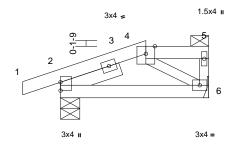
Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:06 ID:2WuDn3TsUZ8mtlEISN0jjZzbevu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5x5 =

Page: 1

-0-10-9	1-11-15	3-5-8
0-10-9	1-11-15	1-5-9





3-5-8



Scale = 1:26.9

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

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	тс	0.06	Vert(LL)	-0.01	2-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	2-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-5-7

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

2-0-0 oc purlins: 4-5.

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

bracing.

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

Max Horiz 2=41 (LC 9)

Max Uplift 2=-76 (LC 8), 6=-30 (LC 8)

Max Grav 2=221 (LC 1), 6=143 (LC 1)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-5/0, 2-4=-139/127, 4-5=-20/24,

5-6=-48/59

BOT CHORD 2-6=-135/98 **WEBS** 4-6=-106/150

NOTES

FORCES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 6 and 76 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

OF MISSO NATHANIEL FOX PE-2022042259 SSIONAL

May 22,2024

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

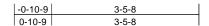
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

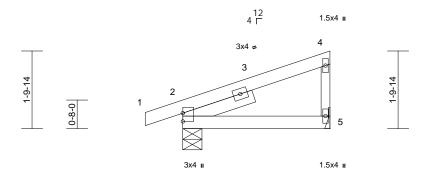


ſ	Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
	P250017-01	M2	Monopitch	4	1	Job Reference (optional)	165760560

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:07 ID:WiSb?PUUFtGdVvpU04XyGnzbevt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





3-5-8

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

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	0.26	Vert(LL)	-0.01	2-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%

LOAD CASE(S) Standard

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

SLIDER Left 2x4 SP No.2 -- 1-8-12

BRACING

LUMBER

TOP CHORD Structural wood sheathing directly applied or 3-5-9 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-5-7, 5= Mechanical

Max Horiz 2=69 (LC 9)

Max Uplift 2=-72 (LC 8), 5=-37 (LC 12) Max Grav 2=221 (LC 1), 5=143 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-90/54, 4-5=-109/175

BOT CHORD 2-5=-31/33

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 5 and 72 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.



May 22,2024

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



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	M3	Half Hip	1	1	Job Reference (optional)	165760561

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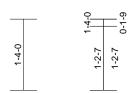
1.5x4 II

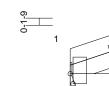
3x4 =

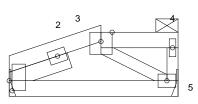




3x4 -









Page: 1

3-2-0

Scale = 1:21.6

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

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)	-0.01	1-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	1-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%

3x6 II

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-5-5 oc purlins, except end verticals, and

2-0-0 oc purlins: 3-4.

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

bracing.

REACTIONS (size) 1= Mechanical, 5= Mechanical

Max Horiz 1=42 (LC 11)

Max Uplift 1=-27 (LC 8), 5=-33 (LC 8)

Max Grav 1=138 (LC 1), 5=138 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-3=-125/126, 3-4=-20/24, 4-5=-47/58

BOT CHORD 1-5=-132/87

WEBS 3-5=-103/147

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 1 and 33 lb uplift at joint 5.

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



May 22,2024

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



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	M4	Roof Special	1	1	Job Reference (optional)	165760562

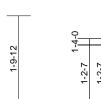
Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:07 ID:WiSb?PUUFtGdVvpU04XyGnzbevt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4x4 II

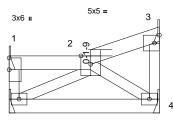
3x4 =

1-8-10	3-2-0
1-8-10	1-5-5

12 4 Г











Page: 1

3-2-0

Scale = 1:24.3

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	0.05	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%

3x4 =

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-2-0 oc purlins, except end verticals, and

2-0-0 oc purlins: 1-2.

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

bracing.

REACTIONS (size) 1= Mechanical, 3= Mechanical, 4= Mechanical, 5= Mechanical

Max Horiz 1=35 (LC 9), 5=35 (LC 11) Max Uplift 1=-25 (LC 8), 3=-20 (LC 9), 4=-10

(LC 8), 5=-4 (LC 8)

Max Grav 1=56 (LC 1), 3=47 (LC 1), 4=82

(LC 1), 5=81 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-5=0/0, 1-2=-63/40, 2-3=-51/38, 3-4=0/0

BOT CHORD 4-5=-97/73

WEBS 2-5=-100/104, 2-4=-89/109

NOTES

FORCES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-4 to 1-8-10, Interior (1) 1-8-10 to 3-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 5, 25 lb uplift at joint 1, 20 lb uplift at joint 3 and 10 lb uplift at joint 4.

- 6) N/A
- 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



May 22,2024

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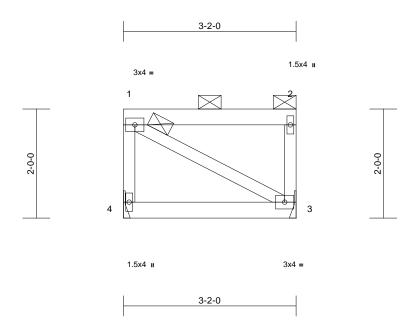
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	M5	Monopitch	1	1	Job Reference (optional)	165760563

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:07 ID:WiSb?PUUFtGdVvpU04XyGnzbevt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:21.1

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	0.00	3-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	3-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%

LUMBER

LOAD CASE(S) Standard

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

BRACING

TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical

Max Horiz 4=-70 (LC 8)

Max Uplift 3=-49 (LC 9), 4=-49 (LC 8) Max Grav 3=133 (LC 1), 4=133 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-103/193, 1-2=-35/38, 2-3=-103/157

BOT CHORD 3-4=-98/101 **WEBS** 1-3=-72/72

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 4 and 49 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 22,2024

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

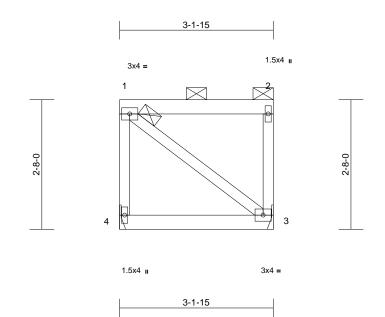
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	M6	Monopitch	1	1	Job Reference (optional)	165760564

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Page: 1



Scale = 1:23.7

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	0.21	Vert(LL)	0.00	3-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	3-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%

LOAD CASE(S) Standard

LUMBER TOP CHORD

2x4 SP No.2 2x4 SP No.2

BOT CHORD 2x3 SPF No.2 WEBS

BRACING

TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical

Max Horiz 4=97 (LC 9)

Max Uplift 3=-68 (LC 9), 4=-68 (LC 8) Max Grav 3=133 (LC 1), 4=133 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-124/227, 1-2=-49/53, 2-3=-103/157

BOT CHORD 3-4=-136/140 **WEBS** 1-3=-112/112

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 4 and 68 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 22,2024

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

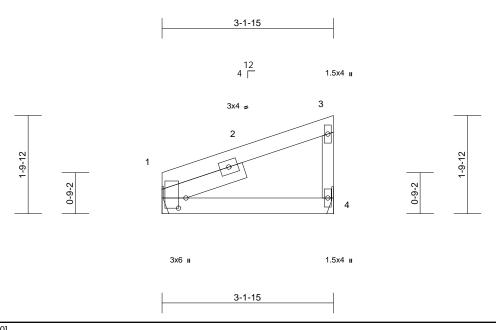
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	M7	Monopitch	1	1	Job Reference (optional)	165760565

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:07 ID:WiSb?PUUFtGdVvpU04XyGnzbevt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:21.3

Plate Offsets (X,	Y):	[1:0-2-4,0-	1-10
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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	0.24	Vert(LL)	-0.01	1-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	1-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-7-5

BRACING

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

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1= Mechanical, 4= Mechanical

Max Horiz 1=70 (LC 9)

Max Uplift 1=-23 (LC 8), 4=-38 (LC 12) Max Grav 1=138 (LC 1), 4=138 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-85/52, 3-4=-107/162

BOT CHORD 1-4=-30/33

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1 and 38 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



May 22,2024

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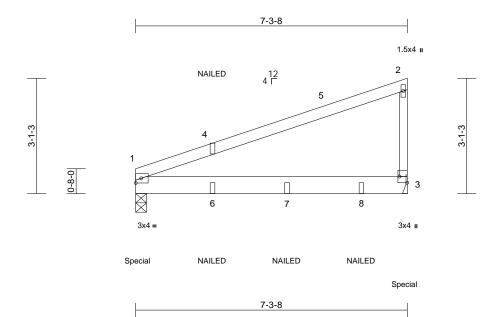
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	M8	Monopitch Girder	1	1	Job Reference (optional)	165760566

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries. Inc. Wed May 22 10:47:07 ID:tfFU26Yd3PvwbghSod77zqzbevo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.07	1-3	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.13	1-3	>661	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E 2x6 SPF No.2 **BOT CHORD** 2x3 SPF No.2 WEBS

BRACING

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

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

bracing.

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

Max Horiz 1=128 (LC 28)

Max Uplift 1=-143 (LC 8), 3=-215 (LC 12)

Max Grav 1=558 (LC 1), 3=619 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-183/102, 2-3=-246/327

BOT CHORD 1-3=-55/60

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 7-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 1 SPF No.2 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 1 and 215 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) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 129 lb down and 33 lb up at 0-1-12, and 128 lb down and 28 lb up at 7-2-4 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. 1-3=-20

Concentrated Loads (lb)

Vert: 1=-129 (B), 3=-128 (B), 6=-61 (B), 7=-113 (B),

8=-113 (B)



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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 besign value to use only with recks colline tools. This design is based only upon parameters shown, and is not an individual busining denipolinit, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

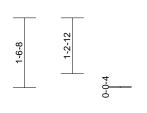


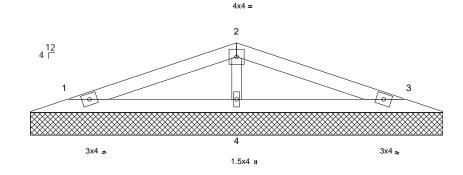
Jo	ob	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
Р	250017-01	V1	Valley	1	1	Job Reference (optional)	165760567

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Wed May 22 10:47:07 ID:82QJHwSs83Y2lwv7j9oYtZzbfH9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

4-6-12	8-3-1	9-1-8
4-6-12	3-8-5	0-10-7





9-1-8

Scale = 1:25.5

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	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	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: 26 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x3 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=9-1-8, 3=9-1-8, 4=9-1-8

Max Horiz 1=-23 (LC 17)

Max Uplift 1=-36 (LC 8), 3=-39 (LC 13), 4=-44

(LC 8)

Max Grav 1=149 (LC 25), 3=149 (LC 26),

4=375 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-60/50, 2-3=-60/52 BOT CHORD 1-4=-1/23, 3-4=-1/23

WEBS 2-4=-264/261

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; cnd vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1, 39 lb uplift at joint 3 and 44 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



May 22,2024

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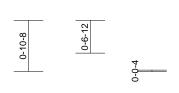


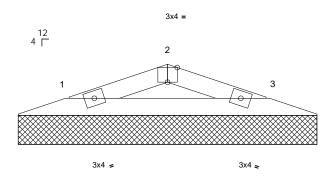
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 205	
P250017-01	V2	Valley	1	1	Job Reference (optional)	165760568

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Page: 1







5-1-8

Scale = 1:19.8

Plate Offsets (X, Y): [2:0-2-0,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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	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 = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-0 oc purlins.

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

bracing.

REACTIONS (size) 1=5-1-8, 3=5-1-8

Max Horiz 1=11 (LC 16)

Max Uplift 1=-27 (LC 8), 3=-27 (LC 9) Max Grav 1=152 (LC 1), 3=152 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-198/239, 2-3=-198/243

BOT CHORD 1-3=-200/173

NOTES

FORCES

- 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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 1 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



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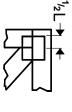
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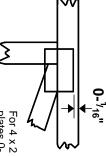


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

* Plate location details available in MiTek software or upon request

PLATE SIZE



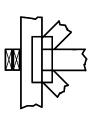
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



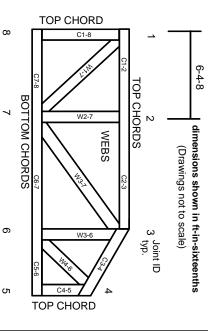
Min size shown is for crushing only reaction section indicates joint number/letter where bearings occur (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

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

DSB-22: ANSI/TPI1:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports

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

Design General Notes

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

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

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Mile

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

Damage or Personal Injury Failure to Follow Could Cause Property General Safety Not Could Cause Property SE FOR CONSTRUCT DIED ON PLANS BEV. VELOPMENT SERVICE EE'S SUMMIT, MISSOU 20025 4:23:

- 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.

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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

'n

- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

œ

Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

- 10. Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 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
- 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.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 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.

LEE'S SUMMIT, MISSOURI 01/28/2025