

RE: P250562-01 - Roof - BY Lot 350

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017

314.434.1200

Site Information:

Lot/Block: 350

Project Customer: Clayton Properties Project Name: Winfield - Modern Prairie

Subdivision: Bailey Farms

Model:

Address: 1134 SE Ranchland St

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 Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16

Wind Speed: 115 mph Floor Load: N/A psf

Roof Load: 45.0 psf

Mean Roof Height (feet): 35 Exposure Category: C

No. Seal# Truss Name	Date No.	Seal#	Truss Name	Date
No. Seal# Truss Name 1	Pate No. 8/12/25 35 8/12/25 36 8/12/25 37 8/12/25 39 8/12/25 40 8/12/25 42 8/12/25 44 8/12/25 44 8/12/25 45 8/12/25	175564043 175564044 175564045 175564046 175564048 175564049 175564050 175564051 175564053	Truss Name J4 J5 J6 J7 J8 J9 J10 J11 LAY01 LAY02 LAY03 LAY04 M1	Date 8/12/25 8/12/25 8/12/25 8/12/25 8/12/25 8/12/25 8/12/25 8/12/25 8/12/25 8/12/25

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.

Truss Design Engineer's Name: Lu, Jie

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

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

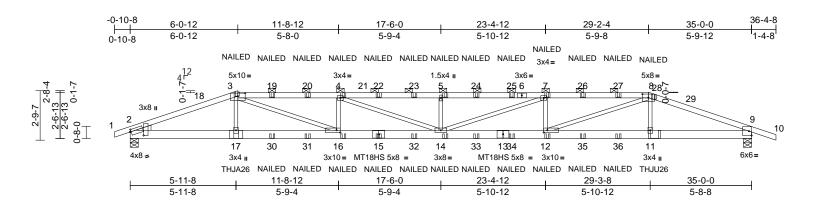


RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/26/2025 3:56:21

Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	A1	Hip Girder	1	2	Job Reference (optional)	5564009

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:38:56 ID:Jzb?yjl7AZyfu1osu6L995zXOLN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:64.9

Plate Offsets (X, Y): [2:0-0-11,0-1-8], [2:0-2-5,0-9-1], [3:0-5-0,0-2-0], [8:0-4-0,0-2-6], [12:0-2-8,0-1-8], [16:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.53	14	>786	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.95	14	>438	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.11	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 333 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 3-6,6-8:2x4 SP 2400F

2.0E

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-11-0 oc purlins, except

2-0-0 oc purlins (4-4-12 max.): 3-8. **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=-48 (LC 13)

Max Uplift 2=-874 (LC 8), 9=-893 (LC 9) Max Grav 2=3096 (LC 1), 9=3141 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/1, 2-3=-7770/2225, 3-4=-11271/3264

4-5=-12531/3573, 5-7=-12531/3573

7-8=-11193/3206, 8-9=-7638/2155, 9-10=0/12 2-17=-1982/7179, 16-17=-1980/7151,

14-16=-3132/11267. 12-14=-3081/11193.

11-12=-1916/7001, 9-11=-1920/7035

3-17=-40/637, 8-11=-91/711,

3-16=-1249/4513, 8-12=-1277/4570,

4-16=-1442/605, 4-14=-373/1398,

5-14=-787/418, 7-14=-411/1482,

7-12=-1400/603

NOTES

WEBS

BOT CHORD

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(2E) -0-10-8 to 4-1-8. Interior (1) 4-1-8 to 6-0-12, Exterior(2R) 6-0-12 to 13-1-10. Interior (1) 13-1-10 to 29-2-4. Exterior(2E) 29-2-4 to 36-4-8 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.
- 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 2400F 2.0E crushing capacity of 805 psi.
- Two H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) 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.
- 13) Use Simpson Strong-Tie THJU26 (SGL & SGL RC 2-PLY) or equivalent at 29-6-6 from the left end to connect truss(es) to front face of bottom chord.

- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-8=-70, 8-10=-70, 2-9=-20 Concentrated Loads (lb)

Vert: 3=-131 (F), 15=-39 (F), 17=-420 (F), 11=-519 (F), 16=-39 (F), 12=-39 (F), 4=-131 (F), 14=-39 (F), 5=-131 (F), 7=-131 (F), 19=-131 (F), 20=-131 (F), 22=-131 (F), 23=-131 (F), 24=-131 (F), 25=-131 (F), 26=-131 (F), 27=-131 (F), 30=-39 (F), 31=-39 (F), 32=-39 (F), 33=-39 (F), 34=-39 (F), 35=-39 (F),

36=-39 (F)



August 12,2025

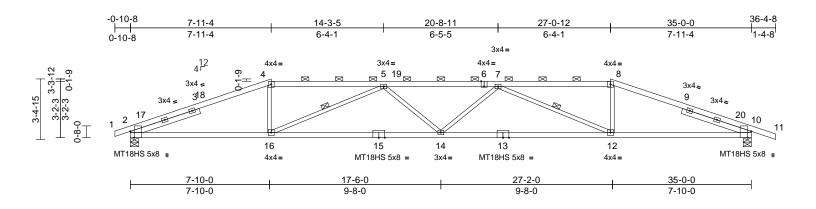
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	A2	Hip	1	1	Job Reference (optional)	4010

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:38:57 ID:ffsTRccb?tRMRBuYBa8LgZzXOLZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:64.9

Plate Offsets (X, Y): [2:0-4-5,Edge], [6:0-2-0,Edge], [10:0-4-5,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.45	14	>935	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.88	12-14	>477	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.22	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 144 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E *Except* 4-6,6-8:2x4 SP

1650F 1.5E

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 **BRACING**

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (2-10-1 max.): 4-8 BOT CHORD Rigid ceiling directly applied or 6-9-15 oc

bracing.

1 Row at midpt 5-16. 7-12

WFBS

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

Max Horiz 2=-60 (LC 13)

Max Uplift 2=-370 (LC 8), 10=-394 (LC 9)

Max Grav 2=1635 (LC 1), 10=1672 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-5/0, 2-4=-3628/884, 4-5=-3302/870,

5-7=-4757/1143, 7-8=-3293/854,

8-10=-3620/869. 10-11=0/6

BOT CHORD 2-16=-721/3327, 14-16=-1087/4648, 12-14=-1079/4646, 10-12=-705/3318

WEBS 4-16=-63/831, 8-12=-64/832, 5-14=0/298,

5-16=-1616/422, 7-14=0/298,

7-12=-1620/425

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 7-11-4, Exterior(2R) 7-11-4 to 15-0-2, Interior (1) 15-0-2 to 27-0-12, Exterior(2R) 27-0-12 to 34-1-10, Interior (1) 34-1-10 to 36-4-8 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.
- 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.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



August 12,2025

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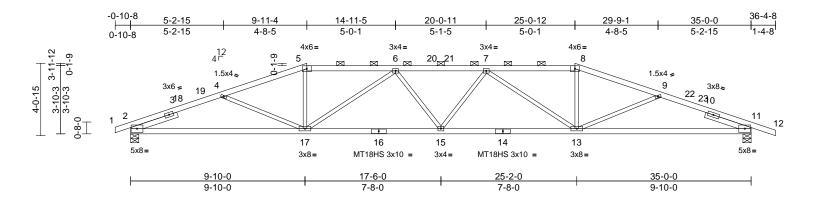
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	A3	Hip	1	1	Job Reference (optional)	1

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:38:58 ID:7rQreycDmAZD3LTIIIfaDmzXOLY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:65

Plate Offsets (X	, Y):	[2:0-0-5,0-3-5],	[11:0-0-5,0-3-5]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.36	15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.65	13-15	>645	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.19	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 148 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E *Except* 5-8:2x4 SP

No.2

BOT CHORD 2x4 SP 1650F 1.5E *Except* 16-14:2x4 SP No.2

WEBS 2x3 SPF No.2

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

-- 2-8-8

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-4-4 oc purlins, except

2-0-0 oc purlins (2-7-10 max.): 5-8.

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

REACTIONS (size) 2=0-5-8, 11=0-5-8 Max Horiz 2=-73 (LC 13)

Max Uplift 2=-362 (LC 8), 11=-386 (LC 9) Max Grav 2=1635 (LC 1), 11=1672 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=-5/0, 2-4=-3543/973, 4-5=-3346/855,

5-6=-3139/835, 6-7=-3852/1019,

7-8=-3134/836, 8-9=-3341/847,

9-11=-3528/972, 11-12=0/6

BOT CHORD 2-17=-838/3220, 15-17=-886/3805 13-15=-874/3803, 11-13=-838/3203

WEBS 5-17=-101/680, 8-13=-95/676, 6-15=-2/164,

6-17=-939/276, 7-15=0/166, 7-13=-942/280,

4-17=-97/228, 9-13=-85/229

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) -0-10-8 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 25-0-12, Exterior(2R) 25-0-12 to 32-1-10, Interior (1) 32-1-10 to 36-4-8 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.
- 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.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



August 12,2025

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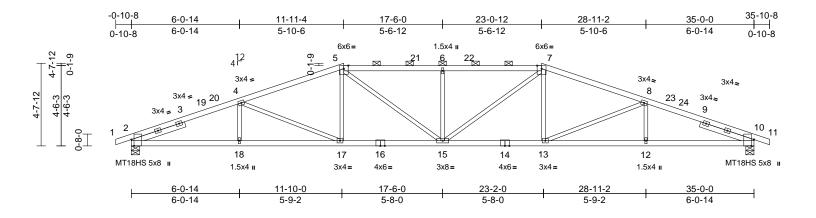
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Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	A4	Hip	1	1	Job Reference (optional)	

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:38:58 ID:7rQreycDmAZD3LTIIIfaDmzXOLY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:64.8

Plate Offsets (X, Y):	[2:0-4-5,Edge],	[10:0-4-5,Edge]
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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	0.77	Vert(LL)	-0.31	15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.56	15-17	>749	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.18	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 152 lb	FT = 20%

LUMBER

BOT CHORD

BRACING

TOP CHORD

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

No.2 2x4 SP No.2

WFBS 2x3 SPF No 2

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

-- 3-2-0

Structural wood sheathing directly applied or TOP CHORD

2-4-0 oc purlins, except

2-0-0 oc purlins (2-7-14 max.): 5-7. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

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

Max Horiz 2=-79 (LC 13)

Max Uplift 2=-353 (LC 8), 10=-353 (LC 9)

Max Grav 2=1636 (LC 1), 10=1636 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-5/0. 2-4=-3628/945. 4-5=-3130/860.

5-6=-3310/954, 6-7=-3310/954

7-8=-3130/860, 8-10=-3628/945, 10-11=-5/0

BOT CHORD 2-18=-824/3304. 17-18=-824/3304.

15-17=-662/2929, 13-15=-658/2929

12-13=-820/3304, 10-12=-820/3304

4-18=0/227, 4-17=-437/206, 5-17=-14/335,

5-15=-165/655, 6-15=-487/241,

7-15=-165/655, 7-13=-14/335,

8-13=-437/207, 8-12=0/227

NOTES

WFBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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(2R) 11-11-4 to 19-0-2, Interior (1) 19-0-2 to 23-0-12, Exterior(2R) 23-0-12 to 30-1-10, Interior (1) 30-1-10 to 35-10-8 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.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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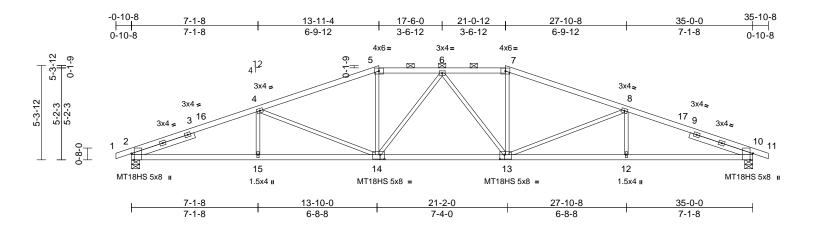
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	A5	Hip	1	1	Job Reference (optional)	175564013

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:38:58 ID:BSI5DGbzEZJVq1JMdtd68LzXOLa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:64.9

Plate Offsets (X, Y): [2:0-4-5,Edge], [10:0-4-5,Edge], [13:0-3-0,0-3-0], [14:0-3-0,0-3-0]

-												
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	0.87	Vert(LL)	-0.27	12-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.54	13-14	>784	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.18	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 153 lb	FT = 20%

LUMBER

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

No.2

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

SLIDER Left 2x4 SP No.2 -- 3-8-11, Right 2x4 SP

No.2 -- 3-8-11

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-7-8 oc purlins, except

2-0-0 oc purlins (3-3-11 max.): 5-7. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing, Except:

7-1-1 oc bracing: 13-14.

REACTIONS (size) 2=0-5-8, 10=0-5-8 Max Horiz 2=-92 (LC 17)

Max Uplift 2=-341 (LC 8), 10=-341 (LC 9)

Max Grav 2=1636 (LC 1), 10=1636 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-3614/952, 4-5=-2928/846,

5-6=-2707/832. 6-7=-2707/867.

7-8=-2928/869, 8-10=-3614/986, 10-11=-5/0

BOT CHORD 2-15=-823/3309, 12-15=-852/3309,

10-12=-852/3309

WFBS 4-15=0/273, 4-14=-687/257, 5-14=-95/526,

7-13=-89/526, 8-13=-687/257, 8-12=0/273,

6-14=-364/129, 6-13=-364/129

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 13-11-4, Exterior(2E) 13-11-4 to 21-0-12, Exterior(2R) 21-0-12 to 27-10-8, Interior (1) 27-10-8 to 35-10-8 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 No.2 crushing capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



August 12,2025

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

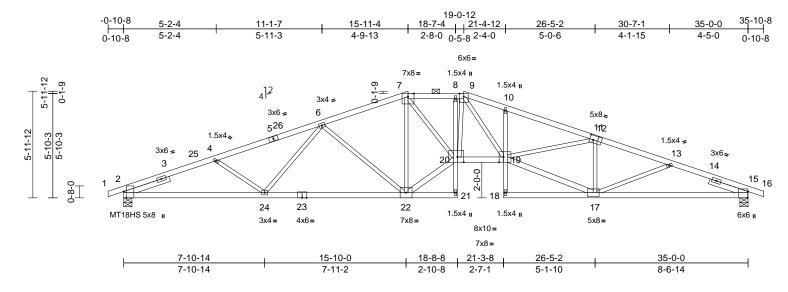
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	A6	Hip	1	1	Job Reference (optional)	564014

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:38:58 ID:b1_DsldrXUh4hV1xJ?Apl_zXOLX-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:64.6

Plate Offsets (X, Y): [2:0-4-5,Edge], [12:0-2-8,0-3-0], [15:0-4-5,Edge], [19:0-3-0,Edge], [20:0-4-4,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	0.83	Vert(LL)	-0.42	19-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.75	19-20	>558	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.31	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 173 lb	FT = 20%

LUMBER

BOT CHORD

TOP CHORD 2x4 SP No.2 *Except* 1-5,12-16:2x4 SP

1650F 1.5E

2x4 SP No.2 *Except* 21-8,10-18:2x3 SPF

No.2, 20-19:2x4 SP 1650F 1.5E

WEBS 2x3 SPF No.2 *Except* 22-20,19-17:2x4 SP

No 2

Left 2x4 SP No.2 -- 2-8-4, Right 2x4 SP No.2 SLIDER

-- 2-3-3

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except

2-0-0 oc purlins (2-9-2 max.): 7-9. Rigid ceiling directly applied or 1-4-12 oc

bracing

REACTIONS (size) 2=0-5-8, 15=0-5-8

Max Horiz 2=104 (LC 16)

Max Uplift 2=-328 (LC 8), 15=-328 (LC 9)

Max Grav 2=1636 (LC 1), 15=1636 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0. 2-4=-3593/920. 4-6=-3366/840. 6-7=-2651/755, 7-8=-3831/1045,

8-9=-3838/1044, 9-10=-4692/1281 10-11=-4802/1244, 11-13=-3426/880,

13-15=-3486/901, 15-16=-5/0

BOT CHORD 2-24=-784/3269, 22-24=-687/2970,

21-22=-9/27, 20-21=-3/0, 8-20=-94/65, 19-20=-795/3836, 18-19=0/64,

10-19=-49/131, 17-18=-13/52,

15-17=-781/3154

WEBS 7-22=-1199/282, 20-22=-594/3032,

7-20=-512/2265, 11-19=-268/1296, 11-17=-1155/372, 17-19=-777/3425, 6-22=-694/266, 6-24=-10/374,

4-24=-188/197, 13-17=0/194, 9-19=-358/1204, 9-20=-96/206

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 15-11-4, Exterior(2E) 15-11-4 to 19-0-12, Exterior(2R) 19-0-12 to 26-5-2, Interior (1) 26-5-2 to 35-10-8 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 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 No.2 crushing
- capacity of 565 psi. One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 15. This connection is for uplift
- only and does not consider lateral forces. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



August 12,2025



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 - BY Lot 350	
P250562-01	A7	Roof Special	1	1	Job Reference (optional)	564015

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:38:58 ID:u6NRltVauPRVUyH0jv?TMtzXOLh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

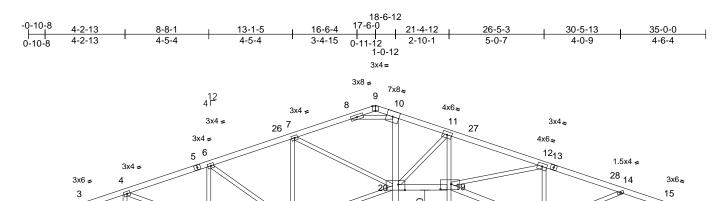
17

5x8=

Page: 1

16

6x6 II



MT18HS 6x12 = 8-8-1 13-1-5 18-8-8 26-5-3 35-0-0 4-2-13 4-5-4 4-5-4 5-7-3 5-1-11 8-6-13 2-7-1

21

6x12=

1.5x4 II

3x4 ı

Scale = 1:61

0-9-9

Plate Offsets (X, Y): [2:0-4-5,Edge], [9:0-2-0,Edge], [16:0-4-5,Edge], [19:0-6-12,0-3-4], [20:0-4-4,Edge], [22:0-3-0,0-2-8]

23

3x4=

24

1.5x4 II

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.44	19-20	>959	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.80	19-20	>528	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.32	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 174 lb	FT = 20%

LUMBER

BOT CHORD

2x4 SP 1650F 1.5E *Except* 9-13,5-9:2x4 SP TOP CHORD

2400F 2.0E

6x6 II

2x4 SP 1650F 1.5E *Except* 2-24.24-21:2x4

SP No.2, 11-18:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 19-17:2x4 SP No.2 SLIDER Left 2x4 SP No.2 -- 2-2-6, Right 2x4 SP No.2

-- 2-3-14

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-4-8 oc purlins. **BOT CHORD**

Rigid ceiling directly applied or 7-1-14 oc

bracing.

REACTIONS (size) 2=0-5-8, 16=0-5-7

Max Horiz 2=-118 (LC 17)

Max Uplift 2=-316 (LC 8), 16=-275 (LC 9)

Max Grav 2=1637 (LC 1), 16=1574 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-3514/800, 4-6=-3416/797.

6-7=-2910/719. 7-8=-3472/831.

8-9=-869/214. 9-10=-516/153.

10-11=-3727/882, 11-12=-4912/1098,

12-14=-3428/797, 14-16=-3507/887 2-25=-680/3179, 23-25=-680/3179,

BOT CHORD 22-23=-632/3229, 21-22=-17/128,

20-21=0/105, 10-20=-360/1821,

19-20=-865/4616, 18-19=0/64,

11-19=-181/1117, 17-18=-11/52,

16-17=-752/3178

11-20=-1672/402, 12-19=-252/1403,

12-17=-1178/319, 17-19=-660/3438,

14-17=-23/164, 4-25=0/149, 4-23=-56/131, 6-23=0/166, 6-22=-678/190, 7-22=-440/145,

20-22=-511/2722, 7-20=-93/760,

8-10=-2642/647

NOTES

WEBS

Unbalanced roof live loads have been considered for

22

5x10=

- 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 4-2-13, Interior (1) 4-2-13 to 17-6-0, Exterior(2R) 17-6-0 to 22-6-0, Interior (1) 22-6-0 to 35-0-0 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- 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 2 SP No.2 crushing capacity of 565 psi, Joint 16 SP 1650F 1.5E crushing
- capacity of 565 psi. One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 16. This connection is for uplift
- only and does not consider lateral forces. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



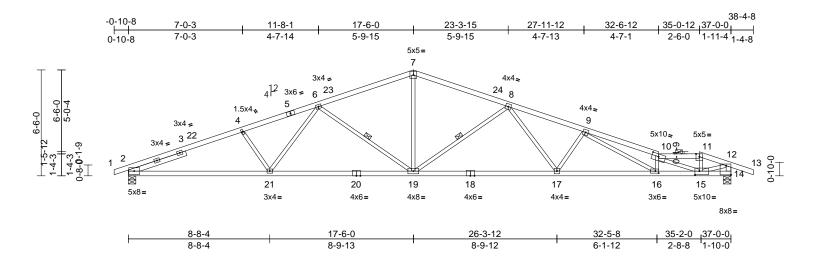
August 12,2025



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	A8	Roof Special	1	1	Job Reference (optional)	75564016

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:38:58 ID: Qwp3YXVy76 Jespiq9BTEpfzXOLi-RfC? PsB70 Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? full for the property of the p

Page: 1



Scale = 1:70.7

Plate Offsets (X, Y): [2:0-0-5,0-3-5], [10:0-5-0,0-2-0], [14:Edge,0-6-12], [15:0-3-4,0-2-12], [16:0-2-8,0-1-8]

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	0.71	Vert(LL)	-0.39	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.76	17-19	>581	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.19	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 161 lb	FT = 20%

LUMBER

BOT CHORD

TOP CHORD 2x4 SP No.2 *Except* 7-10,1-5:2x4 SP

1650F 1.5E 2x4 SP 1650F 1.5E

2x3 SPF No.2 *Except* 14-12:2x4 SP No.2 WFBS

SLIDER Left 2x4 SP No.2 -- 3-8-9

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-10 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-4 max.): 10-11.

BOT CHORD

Rigid ceiling directly applied or 2-2-0 oc

bracing

WEBS 1 Row at midpt 6-19, 8-19 REACTIONS 2=0-5-8, 14=0-5-8 (size)

Max Horiz 2=107 (LC 16)

Max Uplift 2=-324 (LC 8), 14=-369 (LC 9) Max Grav 2=1718 (LC 1), 14=1766 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=-5/0. 2-4=-3779/864. 4-6=-3567/838.

6-7=-2694/686, 7-8=-2692/677,

8-9=-4086/929, 9-10=-5676/1252

10-11=-2359/527, 11-12=-2552/554

12-13=0/34, 12-14=-1719/504

BOT CHORD 2-21=-707/3457, 19-21=-623/3129,

17-19=-647/3347, 16-17=-831/4156,

15-16=-1113/5403, 14-15=-12/160

7-19=-232/1274, 10-16=-722/231,

10-15=-3313/708, 11-15=-101/594,

12-15=-531/2385, 4-21=-228/184,

6-21=-54/450, 6-19=-828/279,

8-19=-1061/332, 8-17=-114/840,

9-17=-599/220, 9-16=-305/1382

NOTES

WEBS

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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 17-6-0, Exterior(2R) 17-6-0 to 22-6-0, Interior (1) 22-6-0 to 35-0-12, Exterior(2E) 35-0-12 to 38-4-8 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 SP 1650F 1.5E crushing
- capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 14. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



August 12,2025

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

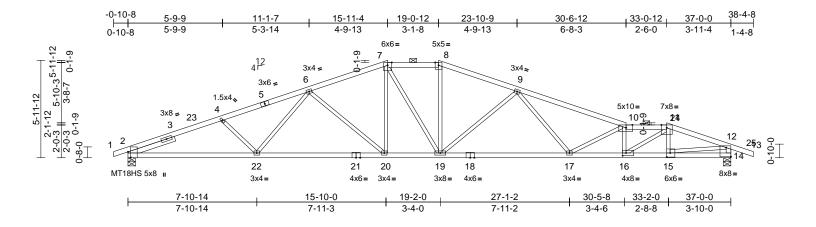
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	A9	Roof Special	1	1	Job Reference (optional)	175564017

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:38:59

Page: 1



Scale = 1:70.7

Plate Offsets (X, Y): [2:0-4-5,Edge], [10:0-4-12,Edge], [14:Edge,0-6-12], [15:0-2-8,0-3-0], [16:0-2-8,0-2-0]

-												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.35	17-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.72	17-19	>614	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.18	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 166 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 8-10,1-5:2x4 SP TOP CHORD

1650F 1.5E

2x4 SP No.2 *Except* 18-14:2x4 SP 1650F **BOT CHORD**

1.5E

WEBS 2x3 SPF No.2 *Except* 14-12:2x4 SP No.2 **SLIDER**

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

BRACING

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

(2-5-2 max.): 7-8, 10-11.

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

bracing.

REACTIONS (size) 2=0-5-8, 14=0-5-8

Max Horiz 2=96 (LC 16)

Max Uplift 2=-335 (LC 8), 14=-380 (LC 9)

Max Grav 2=1718 (LC 1), 14=1766 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-3812/936, 4-6=-3597/886,

6-7=-2887/791, 7-8=-2728/793, 8-9=-2942/808. 9-10=-4223/1018. 10-11=-4875/1206, 11-12=-3280/782,

12-13=0/34, 12-14=-1694/543

BOT CHORD 2-22=-768/3470, 20-22=-689/3183,

19-20=-514/2681, 17-19=-750/3451, 16-17=-1087/4803, 15-16=-676/3093,

14-15=-92/399

WEBS 7-20=-98/551, 7-19=-157/303,

8-19=-129/647, 9-19=-940/316, 9-17=-91/775, 10-17=-980/336,

10-16=-1228/316, 11-16=-525/2159, 11-15=-375/151, 12-15=-620/2706,

4-22=-177/182, 6-22=-30/374, 6-20=-679/242

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 15-11-4, Exterior(2E) 15-11-4 to 19-0-12, Exterior(2R) 19-0-12 to 23-10-9, Interior (1) 23-10-9 to 33-0-12, Exterior(2R) 33-0-12 to 38-0-12, Interior (1) 38-0-12 to 38-4-8 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.
- 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 2 SP No.2 crushing capacity of 565 psi, Joint 14 SP 1650F 1.5E crushing capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 14. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



August 12,2025

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

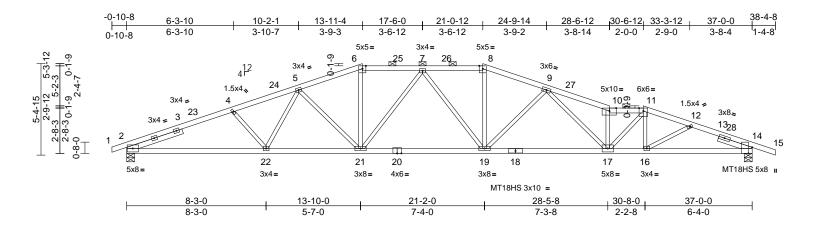
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MILEN REFERENCE FACE mile, 7,000 miles and parameters and properly with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a few individual building component, not a few individual building design must verify the applicability of design parameters and properly incorporate this design into the overall 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 - BY Lot 350	
P250562-01	A10	Roof Special	1	1	Job Reference (optional)	175564018

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:38:59 ID: UpDkhfgMbjCW96LiYrFlwqzXOLT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:68.2

Plate Offsets (X, Y)	[2:0-0-5,0-3-5],	[10:0-4-12,Edge],	[14:0-4-5,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.35	17-19	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.68	17-19	>650	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.20	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		, ,					Weight: 168 lb	FT = 20%

LUMBER

BRACING

TOP CHORD 2x4 SP No.2 *Except* 1-6,11-15:2x4 SP

1650F 1.5E

2x4 SP 1650F 1.5E *Except* 18-14:2x4 SP **BOT CHORD** No.2

WEBS 2x3 SPF No.2

SLIDER Left 2x4 SP No.2 -- 3-5-9, Right 2x4 SP No.2

-- 2-1-1

TOP CHORD Structural wood sheathing directly applied or

2-3-4 oc purlins, except 2-0-0 oc purlins (2-7-4 max.): 6-8, 10-11.

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

bracing.

REACTIONS (size) 2=0-5-8, 14=0-5-8

Max Horiz 2=-98 (LC 13)

Max Uplift 2=-350 (LC 8), 14=-387 (LC 9)

Max Grav 2=1725 (LC 1), 14=1762 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-3796/957, 4-5=-3600/919,

5-6=-3131/854, 6-7=-2929/827, 7-8=-3071/874, 8-9=-3280/899,

9-10=-4647/1231, 10-11=-4435/1152, 11-12=-3785/975, 12-14=-3597/963,

14-15=0/6

BOT CHORD 2-22=-792/3465, 21-22=-720/3284,

19-21=-674/3134, 17-19=-839/3612

16-17=-835/3619, 14-16=-829/3239 **WEBS**

6-21=-153/750, 8-19=-169/795, 10-17=-1649/462, 11-17=-301/1253,

11-16=-126/63, 9-19=-756/290,

9-17=-247/1083, 12-16=-20/426, 7-21=-505/159, 7-19=-315/137,

4-22=-147/171, 5-22=-47/281, 5-21=-517/183

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 13-11-4, Exterior(2R) 13-11-4 to 18-11-4, Interior (1) 18-11-4 to 21-0-12, Exterior(2R) 21-0-12 to 26-0-12, Interior (1) 26-0-12 to 30-6-12, Exterior(2R) 30-6-12 to 35-6-12, Interior (1) 35-6-12 to 38-4-8 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.
- 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 2 SP 1650F 1.5E crushing capacity of 565 psi, Joint 14 SP No.2 crushing capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 14. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



August 12,2025

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

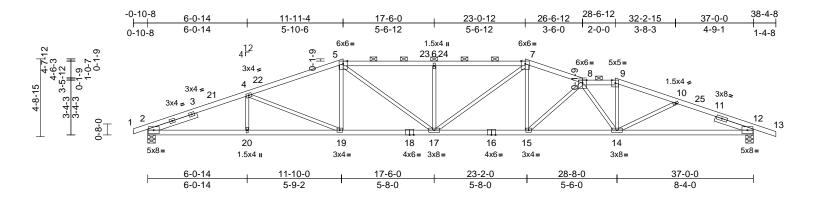
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350		
P250562-01	A11	Roof Special	1	1	Job Reference (optional)	175564019	

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:38:59 ID:jGli0waLTFBfCtkA4A5tb8zXOLb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:70.4

Plate Offsets (X, Y):	[2:0-0-5,0-3-5], [12:0-0-5,0-3-5]
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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	0.87	Vert(LL)	-0.37	15-17	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.68	15-17	>651	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.20	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 163 lb	FT = 20%

LUMBER

BRACING

BOT CHORD

FORCES

TOP CHORD 2x4 SP No.2 *Except* 1-5,9-13:2x4 SP

1650F 1.5E

2x4 SP 1650F 1.5E *Except* 18-16:2x4 SP **BOT CHORD** No.2

WEBS 2x3 SPF No.2

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

-- 2-5-7

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except

2-0-0 oc purlins (2-2-10 max.): 5-7. 8-9.

Rigid ceiling directly applied or 6-10-3 oc

bracing.

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

Max Horiz 2=-86 (LC 13)

Max Uplift 2=-362 (LC 8), 12=-398 (LC 9) Max Grav 2=1725 (LC 1), 12=1762 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-3862/948, 4-5=-3390/893,

5-6=-3682/1016, 6-7=-3682/1016, 7-8=-3613/982, 8-9=-3478/938,

9-10=-3693/960, 10-12=-3721/1009 12-13=0/6

BOT CHORD 2-20=-793/3522, 19-20=-793/3522,

17-19=-664/3177, 15-17=-744/3391, 14-15=-938/3974, 12-14=-874/3371

WEBS 4-20=0/225, 4-19=-415/205, 5-19=-14/325,

5-17=-195/802, 6-17=-506/228,

7-17=-152/575, 7-15=-122/630, 8-15=-771/259, 8-14=-886/267,

9-14=-161/806, 10-14=0/273

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 11-11-4, Exterior(2R) 11-11-4 to 16-11-4, Interior (1) 16-11-4 to 23-0-12, Exterior(2E) 23-0-12 to 26-6-12, Interior (1) 26-6-12 to 28-6-12, Exterior(2R) 28-6-12 to 33-6-12, Interior (1) 33-6-12 to 38-4-8 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 SP 1650F 1.5E crushing capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



August 12,2025

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

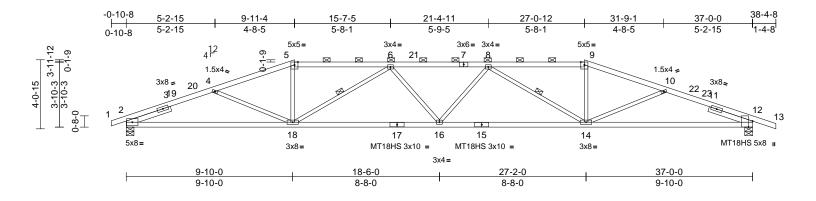
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	A12	Hip	1	1	Job Reference (optional)	4020

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:38:59 ID:nudybFY4xexxzaanyl3PWjzXOLd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:68.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.43	16	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.83	Vert(CT)	-0.79	14-16	>561	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.21	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 155 lb	FT = 20%

LUMBER

BRACING

2x4 SP 1650F 1.5E *Except* 5-7,7-9:2x4 SP TOP CHORD

No.2

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

WFBS SLIDER

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

-- 2-8-8

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except

2-0-0 oc purlins (2-3-1 max.): 5-9. BOT CHORD Rigid ceiling directly applied or 7-2-2 oc

bracing.

WFBS 1 Row at midpt 6-18. 8-14

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

Max Horiz 2=-73 (LC 17)

Max Uplift 2=-383 (LC 8), 12=-407 (LC 9)

Max Grav 2=1725 (LC 1), 12=1762 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-5/0, 2-4=-3775/1015, 4-5=-3610/907, 5-6=-3390/885, 6-8=-4312/1100, 8-9=-3385/881, 9-10=-3604/894

10-12=-3760/1013, 12-13=0/6

BOT CHORD 2-18=-876/3435, 16-18=-980/4247 14-16=-969/4245, 12-14=-875/3417

WEBS 5-18=-102/734, 9-14=-99/730, 6-16=0/205,

6-18=-1137/323, 8-16=0/206,

8-14=-1140/325, 4-18=-54/265,

10-14=-42/270

NOTES

TOP CHORD

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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 27-0-12, Exterior(2R) 27-0-12 to 34-1-10, Interior (1) 34-1-10 to 38-4-8 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.
- 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.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



August 12,2025

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

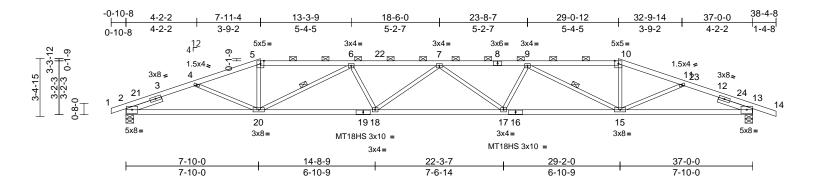
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	A13	Hip	1	1	Job Reference (optional)	

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:38:59 ID:Jh3aOvYSAKp4LQ?bO1YAzVzXOLe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:68

Plate Offsets ((X, Y):	[2:0-0-5,0-3-5],	[13:0-0-5,0-3-5]
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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	0.85	Vert(LL)	-0.57	17-18	>776	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-1.08	17-18	>411	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.24	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 154 lb	FT = 20%

LUMBER

2x4 SP 1650F 1.5E *Except* 5-8,8-10:2x4 SP TOP CHORD

No.2

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

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

No.2 -- 2-1-12

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

WFBS 1 Row at midpt 6-20. 9-15

REACTIONS (size) 2=0-5-8, 13=0-5-8

Max Horiz 2=-60 (LC 13)

Max Uplift 2=-390 (LC 8), 13=-414 (LC 9)

Max Grav 2=1725 (LC 1), 13=1762 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-3699/965, 4-5=-3754/936,

> 5-6=-3538/910, 6-7=-5095/1258, 7-9=-5092/1249. 9-10=-3530/895

10-11=-3745/919, 11-13=-3664/952,

13-14=0/6

BOT CHORD 2-20=-823/3344, 18-20=-1124/4937

17-18=-1183/5328, 15-17=-1114/4934,

13-15=-817/3320

5-20=-122/793, 10-15=-117/787, **WEBS**

6-18=-7/401, 6-20=-1674/413,

7-18=-361/151, 7-17=-363/152, 9-17=-8/403,

9-15=-1677/418, 4-20=-13/444,

11-15=-17/452

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 3-11-13, Interior (1) 3-11-13 to 7-11-4, Exterior(2R) 7-11-4 to 15-0-2, Interior (1) 15-0-2 to 29-0-12, Exterior(2R) 29-0-12 to 36-1-10, Interior (1) 36-1-10 to 38-4-8 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.
- 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.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



August 12,2025

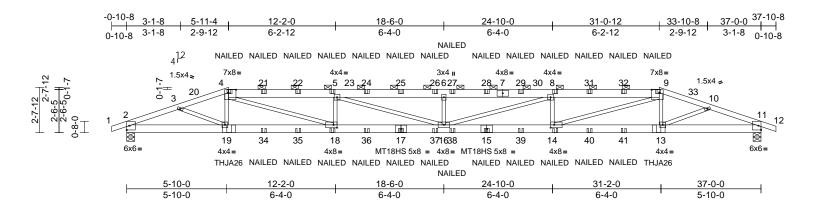
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	A14	Hip Girder	1	2	Job Reference (optional)	75564022

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:00 ID:uOvsKhjEtea51a4HDzoSYSzXOLQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:67.2

-												
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)	-0.56	16	>778	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-1.01	16	>433	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.12	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 398 lb	FT = 20%

LUMBER

2x4 SP 1650F 1.5E *Except* 4-7,7-9:2x6 SP TOP CHORD

2400F 2.0E

BOT CHORD 2x6 SP 2400F 2.0E 2x3 SPF No.2 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-2-3 oc purlins, except

2-0-0 oc purlins (5-4-10 max.): 4-9.

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

bracing

REACTIONS (size) 2=0-5-8, 11=0-5-8

Max Horiz 2=41 (LC 33)

Max Uplift 2=-932 (LC 8), 11=-932 (LC 9)

Max Grav 2=3292 (LC 1), 11=3292 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/1. 2-3=-7206/2105, 3-4=-8217/2371,

4-5=-13148/3796, 5-6=-14968/4259, 6-8=-14968/4259, 8-9=-13148/3788,

9-10=-8217/2367, 10-11=-7206/2108

11-12=0/1

BOT CHORD 2-19=-1847/6463, 18-19=-2177/7864

16-18=-3676/13142, 14-16=-3676/13142,

13-14=-2181/7864, 11-13=-1860/6463 WFBS

4-19=0/254, 9-13=0/254, 4-18=-1587/5637, 9-14=-1586/5637, 5-18=-1665/694,

5-16=-540/1976, 6-16=-918/483, 8-16=-541/1976, 8-14=-1665/694

3-19=-410/1656, 10-13=-411/1656

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, 2x6 - 2 rows staggered at 0-9-0 oc.

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

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

- 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 31-0-12. Exterior(2E) 31-0-12 to 37-10-8 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 2400F 2.0E crushing capacity of 805 psi.
- Two H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift
- only and does not consider lateral forces. 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) 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.
- 13) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 31-0-6 from the left end to connect truss(es) to back face of bottom chord.

- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

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, 9-12=-70, 2-11=-20

Concentrated Loads (lb)

Vert: 4=-131 (B), 17=-39 (B), 19=-420 (B), 13=-420 (B), 18=-39 (B), 9=-131 (B), 14=-39 (B), 5=-131 (B), 8=-131 (B), 15=-39 (B), 21=-131 (B), 22=-131 (B), 24=-131 (B), 25=-131 (B), 26=-131 (B), 27=-131 (B), 28=-131 (B), 29=-131 (B), 31=-131 (B), 32=-131 (B), 34=-39 (B), 35=-39 (B), 36=-39 (B), 37=-39 (B), 38=-39 (B), 39=-39 (B), 40=-39 (B), 41=-39 (B)



August 12,2025

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

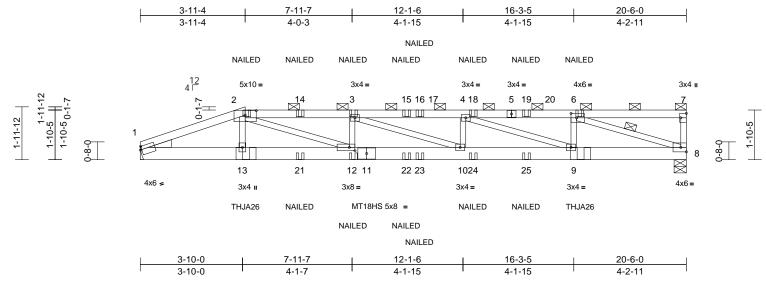
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	B1	Half Hip Girder	1	1	Job Reference (optional)	175564023

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:00 ID:J7xla4?6lj4fLZwBtcQvAqzXOZF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:43.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.26	10-12	>934	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.47	10-12	>520	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 98 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 2-5:2x4 SP 1650F

1.5E

BOT CHORD 2x6 SP 2400F 2 0F 2x3 SPF No 2 WFBS WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-10-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-8-11 max.): 2-7

BOT CHORD Rigid ceiling directly applied or 8-6-11 oc

bracing

WEBS 1 Row at midpt 6-8

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

Max Horiz 1=70 (LC 9)

Max Uplift 1=-397 (LC 8), 8=-396 (LC 8) Max Grav 1=1431 (LC 1), 8=1423 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-3460/1089, 2-3=-4763/1510,

3-4=-4866/1490, 4-6=-3338/1009,

6-7=-87/57, 7-8=-139/90

1-13=-1010/3170, 12-13=-1008/3146, 10-12=-1449/4760, 9-10=-1477/4866,

8-9=-1051/3338

2-13=-25/350, 2-12=-500/1780,

6-8=-3456/1056, 3-12=-558/275,

3-10=-36/149, 4-10=0/239, 4-9=-1622/511,

6-9=-149/787

NOTES

WEBS

BOT CHORD

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-12 to 3-11-4, Exterior(2R) 3-11-4 to 11-0-2, Interior (1) 11-0-2 to 20-4-12 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.
- 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 8 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 397 lb uplift at joint 1.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie THJA26 (THJA26 on 1 ply Right Hand Hip) or equivalent at 3-11-10 from the left end to connect truss(es) to back face of bottom chord.
- 13) Use Simpson Strong-Tie THJA26 (THJA26 on 1 ply, Left Hand Hip) or equivalent at 16-6-6 from the left end to connect truss(es) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

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

LOAD CASE(S) Standard

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

> Vert: 1-2=-70, 2-7=-70, 1-8=-20 Concentrated Loads (lb)

Vert: 2=-59 (B), 13=-221 (B), 12=-19 (B), 6=-59 (B), 3=-59 (B), 9=-221 (B), 14=-59 (B), 15=-59 (B), 16=-59 (B), 18=-59 (B), 19=-59 (B), 21=-19 (B),

22=-19 (B), 23=-19 (B), 24=-19 (B), 25=-19 (B)



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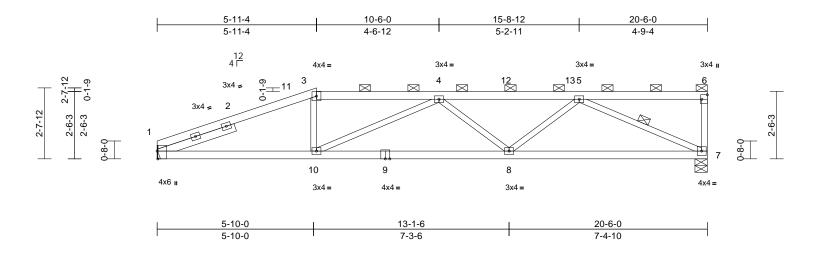
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	B2	Half Hip	1	1	Job Reference (optional)	175564024

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:00 ID:ckNNdHIAe55FEFlpHfrY8uzXOYt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.11	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.23	8-10	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 83 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 -- 3-0-8

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-3-12 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-5 max.): 3-6.

BOT CHORD Rigid ceiling directly applied or 7-2-15 oc

bracing.

WEBS 1 Row at midpt 5-7

REACTIONS (size) 1= Mechanical, 7=0-5-8 Max Horiz 1=105 (LC 11)

Max Uplift 1=-198 (LC 8), 7=-203 (LC 8)

Max Grav 1=918 (LC 1), 7=918 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-1919/604, 3-4=-1720/607,

4-5=-1928/569, 5-6=-72/50, 6-7=-142/96

BOT CHORD 1-10=-537/1732, 8-10=-651/2146,

7-8=-498/1526

WEBS 3-10=0/382, 4-8=-287/238, 4-10=-599/163,

5-8=-85/529, 5-7=-1652/511

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 5-0-0, Interior (1) 5-0-0 to 5-11-4, Exterior(2R) 5-11-4 to 13-0-2, Interior (1) 13-0-2 to 20-4-12 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.
- Bearings are assumed to be: , Joint 7 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 198 lb uplift at ioint 1.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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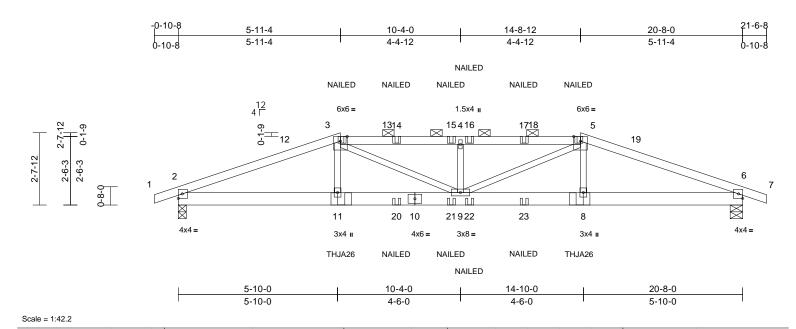
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	C1	Hip Girder	1	2	Job Reference (optional)	175564025

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:01 ID:?hIP2YPrrmF9a03FAhLVABzXMe4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



2-0-0 CSI **DEFL** I/defI L/d **PLATES** GRIP Loading (psf) Spacing in (loc) TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.71 Vert(LL) -0.12 9 >999 240 MT20 197/144 BC TCDI 10.0 Vert(CT) Lumber DOL 1 15 0.75 -0.229 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.21 Horz(CT) 0.04 6 n/a **BCDL** IRC2018/TPI2014 Weight: 168 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

5-5-0 oc purlins, except

2-0-0 oc purlins (5-0-12 max.): 3-5. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing

REACTIONS (size) 2=0-3-8, 6=0-5-8

Max Horiz 2=-42 (LC 34)

Max Uplift 2=-536 (LC 8), 6=-543 (LC 9)

Max Grav 2=1872 (LC 1), 6=1885 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/1, 2-3=-4430/1380, 3-4=-5034/1629,

4-5=-5034/1629, 5-6=-4403/1384, 6-7=0/1

BOT CHORD 2-11=-1210/4070, 9-11=-1207/4042,

8-9=-1206/4010, 6-8=-1209/4038 WEBS

3-11=-62/590, 5-8=-64/587, 5-9=-361/1246,

3-9=-351/1215, 4-9=-870/448

NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0
 - 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.
- Unbalanced roof live loads have been considered for this design.

- 4) 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 14-8-12, Exterior(2E) 14-8-12 to 21-6-8 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.
- Two H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
- 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
- 11) 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.
- 12) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 14-8-6 from the left end to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- 14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

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, 5-7=-70, 2-6=-20 Concentrated Loads (lb)

Vert: 3=-131 (F), 5=-131 (F), 11=-420 (F), 8=-420 (F), 14=-131 (F), 15=-131 (F), 16=-131 (F), 17=-131 (F), 20=-39 (F), 21=-39 (F), 22=-39 (F), 23=-39 (F)



August 12,2025



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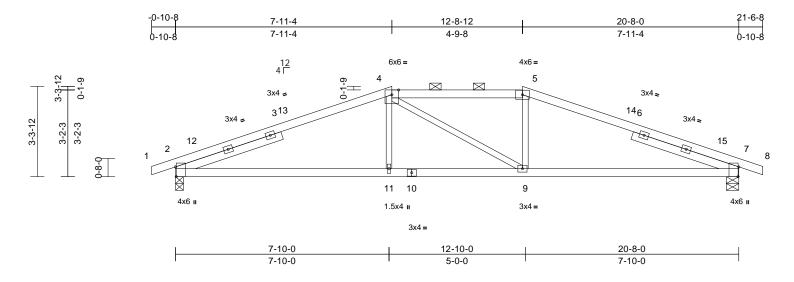
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	C2	Hip	1	1	Job Reference (optional)	175564026

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:01 ID:Tt.JnGuPTc4N0CAdRjOskiPzXMe3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.3

Plate Offsets (X, Y): [2:0-4-5,Edge], [7:0-4-5,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	0.88	Vert(LL)	-0.12	2-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.68	Vert(CT)	-0.26	2-11	>971	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 87 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 -- 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 (4-3-8 max.): 4-5.

BOT CHORD Rigid ceiling directly applied or 8-5-5 oc

bracing.

REACTIONS (size) 2=0-3-8, 7=0-5-8

Max Horiz 2=-54 (LC 17)

Max Uplift 2=-220 (LC 8), 7=-220 (LC 9) Max Grav 2=991 (LC 1), 7=991 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum

Tension
TOP CHORD 1-2=-5/0, 2-4=-1790/580,

TOP CHORD 1-2=-5/0, 2-4=-1790/580, 4-5=-1597/629, 5-7=-1790/604, 7-8=-5/0

2-11=-453/1601, 9-11=-455/1597,

7-9=-468/1602 WEBS 4-11=0/261, 4-9=-204/204, 5-9=0/261

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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(2E) 7-11-4 to 12-8-12, Exterior(2R) 12-8-12 to 19-9-10, Interior (1) 19-9-10 to 21-6-8 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.
- 6) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 7. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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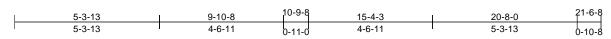
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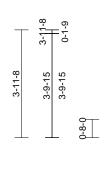
Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	C3	Hip Girder	1	1	Job Reference (optional)	175564027

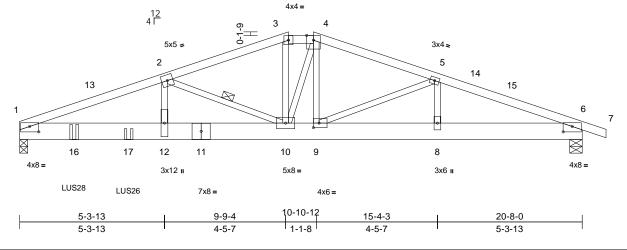
Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:01 ID:x3t9TEQ5NOVtqKCdH5NzFczXMe2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



6x6 =





Scale = 1:42.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.13	1-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.24	1-12	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 105 lb	FT = 20%

LUMBER

BOT CHORD

TOP CHORD 2x4 SP No.2 *Except* 1-3:2x4 SP 1650F

1.5E

2x8 SP 2400F 2.0E *Except* 11-6:2x8 SPF No.2

WEBS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-8-0 oc purlins, except

2-0-0 oc purlins (3-9-5 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

8-0-2 oc bracing: 10-12.
WEBS 1 Row at midpt 2-10

REACTIONS (size) 1=0-3-8, 6=0-5-8

Max Horiz 1=-68 (LC 17)

Max Uplift 1=-705 (LC 8), 6=-292 (LC 9)

Max Grav 1=2920 (LC 1), 6=1292 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-4581/1285, 2-3=-2464/757,

3-4=-2280/732, 4-5=-2368/730,

5-6=-2709/802, 6-7=0/6 BOT CHORD 1-12=-1134/4237, 10-12=-1134/4237,

9-10=-541/2196, 8-9=-692/2464,

6-8=-692/2464

WEBS 3-10=-177/554, 4-10=-119/419, 4-9=-58/272,

2-10=-2181/647, 2-12=-285/1406,

5-9=-337/230, 5-8=0/149

NOTES

TOP 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) 0-1-12 to 5-3-13, Interior (1) 5-3-13 to 9-10-8, Exterior(2E) 9-10-8 to 10-9-8, Exterior(2R) 10-9-8 to 17-10-6, Interior (1) 17-10-6 to 21-6-8 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) 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 SP 2400F 2.0E crushing capacity of 805 psi, Joint 6 SPF No.2 crushing capacity of 425 psi.
- 6) Two H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.
- 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.
- Use Simpson Strong-Tie LUS28 (6-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent at 2-0-0 from the left end to connect truss(es) to back face of bottom chord.
- 11) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 4-0-0 from the left end to connect truss(es) to back face of bottom
- 12) Fill all nail holes where hanger is in contact with lumber.

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, 4-7=-70, 1-6=-20 Concentrated Loads (lb)

Vert: 16=-1411 (B), 17=-898 (B)



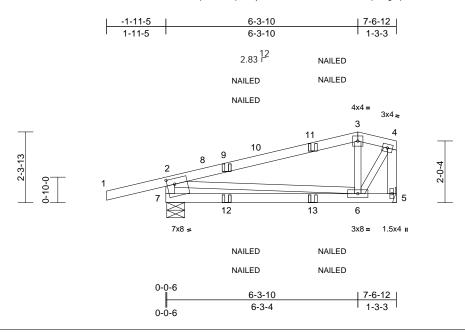
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	CG1	Common Girder	1	1	Job Reference (optional)	28

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:01 ID:qVVCAZXqP1hDjGQPrK1xRIzXOLf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:37.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.05	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.10	6-7	>869	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 36 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 7-2,5-4:2x4 SP No.2 WEBS

BRACING TOP CHORD

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

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

bracing.

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

Max Horiz 7=84 (LC 9)

Max Uplift 5=-80 (LC 9), 7=-170 (LC 8) Max Grav 5=323 (LC 1), 7=482 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/34, 2-3=-247/71, 3-4=-204/99,

2-7=-431/388, 4-5=-386/208

BOT CHORD 6-7=-209/90, 5-6=-36/39 WFBS 4-6=-174/358, 3-6=-149/227, 2-6=-8/193

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) -1-11-5 to 3-0-11, Interior (1) 3-0-11 to 6-3-10, Exterior(2E) 6-3-10 to 7-5-0 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 7 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 80 lb uplift at joint
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
- 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 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 5-7=-20

Concentrated Loads (lb)

Vert: 9=36 (F), 11=-26 (B), 13=-13 (F=-4, B=-10)



August 12,2025

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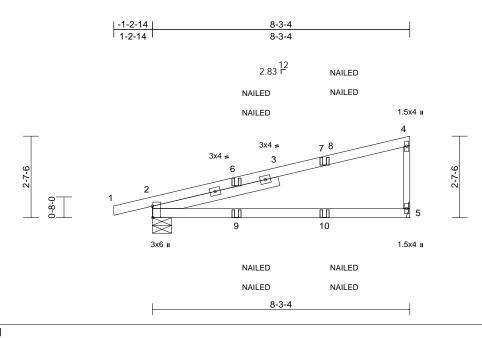
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	CG2	Diagonal Hip Girder	3	1	Job Reference (optional)	175564029

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:01 ID:qVVCAZXqP1hDjGQPrK1xRIzXOLf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:37

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

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	0.94	Vert(LL)	-0.22	2-5	>454	240	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 9)

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.

- 6) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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)



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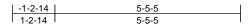
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

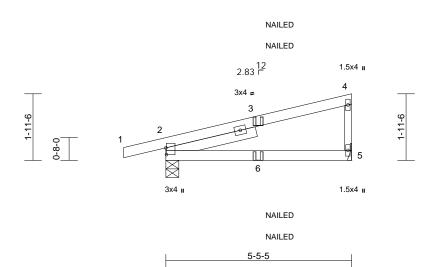


Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	CG3	Diagonal Hip Girder	2	1	Job Reference (optional)	75564030

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:01 ID:AwN7AVnKOV0duRQ0fge?FEzXOc6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:33.8

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=0-4-9, 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)

FORCES

(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

- 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.

- 6) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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

> NUMBER PE-02932 ESSIONAL

August 12,2025

OF MISS

JIE LU

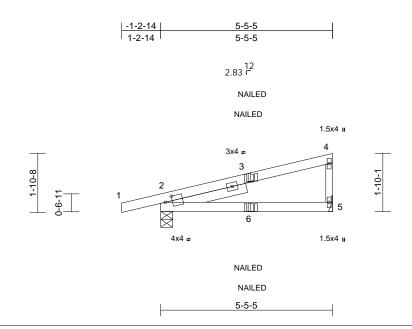
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	CG4	Diagonal Hip Girder	1	1	Job Reference (optional)	175564031

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:01 $ID: MEt_iKniLoJbhadPmfCNLRzXOhH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$

Page: 1



Scale = 1:36.5

Plate Offsets (X, Y): [2:0-2-11,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.04	2-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.37	Vert(CT)	-0.08	2-5	>732	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: 23 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 -- 2-7-6

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=0-4-9, 5= Mechanical

Max Horiz 2=70 (LC 9)

Max Uplift 2=-121 (LC 8), 5=-51 (LC 12)

Max Grav 2=345 (LC 1), 5=218 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/2, 2-4=-91/56, 4-5=-166/211

BOT CHORD 2-5=-31/34

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
- 2) 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 51 lb uplift at joint 5.

- 6) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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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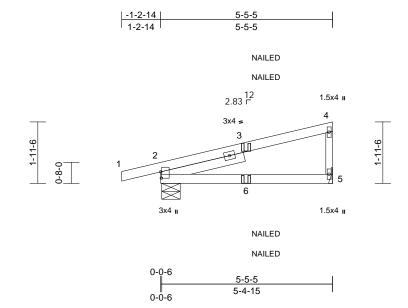
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	CG5	Diagonal Hip Girder	1	1	Job Reference (optional)	175564032

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:01 ID:AwN7AVnKOV0duRQ0fge?FEzXOc6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:36.5

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=0-7-0, 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

FORCES Tension

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

BOT CHORD 2-5=-34/36

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
- 2) 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.

- 6) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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



August 12,2025

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

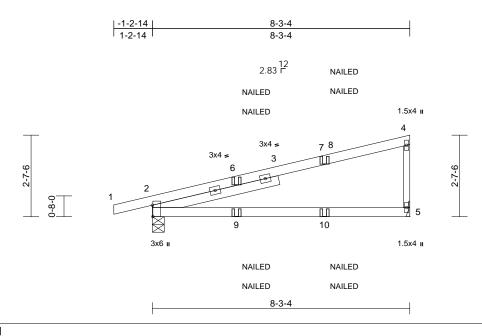
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	CG6	Diagonal Hip Girder	1	1	Job Reference (optional)	5564033

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:02 ID:MEt_iKniLoJbhadPmfCNLRzXOhH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:37

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

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	0.94	Vert(LL)	-0.22	2-5	>454	240	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=0-4-9, 5= Mechanical

Max Horiz 2=103 (LC 9)

Max Uplift 2=-149 (LC 8), 5=-115 (LC 12)

Max Grav 2=484 (LC 1), 5=410 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD

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

BOT CHORD 2-5=-47/51

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 5-10-0, 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.

- 6) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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)



August 12,2025

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

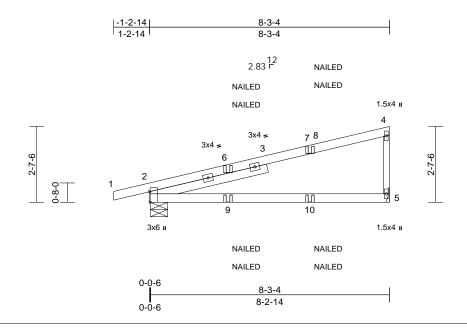
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	CG7	Diagonal Hip Girder	1	1	Job Reference (optional)	64034

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:02 ID:?hIP2YPrrmF9a03FAhLVABzXMe4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.8

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	240	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=0-7-0, 5= Mechanical

Max Horiz 2=103 (LC 9)

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.

- 6) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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)



August 12,2025

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

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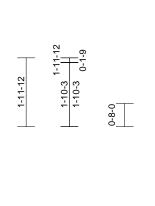


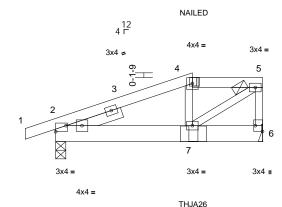
Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	D1	Half Hip Girder	1	1	Job Reference (optional)	75564035

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:02 ID:HQf1vyxTKUfnyRwWvvN2H_zXObv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-10-8 3-11-4 5-11-8







3-10-0	5-11-8
3-10-0	2-1-8

Scale = 1:33.2

Plate Offsets (X, Y): [2:0-3-9,0-2-0], [2:Edge,0-2-2], [6: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	0.31	Vert(LL)	-0.01	2-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	2-7	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-7-13

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-8 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=0-3-8, 6= Mechanical

Max Horiz 2=69 (LC 9)

Max Uplift 2=-139 (LC 8), 6=-123 (LC 8)

Max Grav 2=433 (LC 1), 6=432 (LC 1)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/1, 2-4=-532/218, 4-5=-440/258,

5-6=-400/255

BOT CHORD 2-7=-243/434, 6-7=-30/33 WEBS 4-7=-59/164, 5-7=-287/542

NOTES

FORCES

- 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) 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 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 123 lb uplift at ioint 6.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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 1 ply, Right Hand Hip) or equivalent at 3-11-10 from the left end to connect truss(es) to back face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 14) 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, 2-6=-20

Concentrated Loads (lb) Vert: 4=-59 (B), 7=-221 (B)



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August 12,2025

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

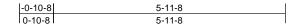
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

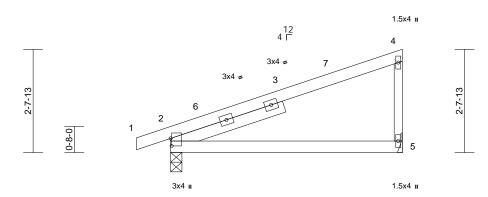


Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	D2	Monopitch	1	1	Job Reference (optional)	564036

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:02 ID:5UwbulBaxRraWvBcHuFVmvzXOct-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





5-11-8

Scale = 1:29.6

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	0.84	Vert(LL)	-0.07	2-5	>997	240		197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.14	2-5	>499	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: 26 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 -- 3-0-10

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-4 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=109 (LC 9)

Max Uplift 2=-91 (LC 8), 5=-66 (LC 12) Max Grav 2=329 (LC 1), 5=259 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-5/0, 2-4=-146/86, 4-5=-200/293

BOT CHORD 2-5=-48/52

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 5-10-4 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 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 66 lb uplift at joint 5.

- 6) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 12,2025

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

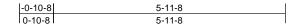
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

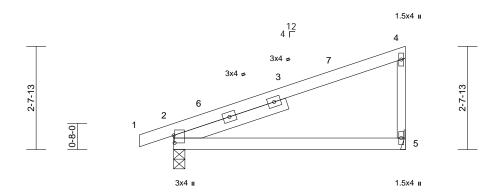


Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	D3	Monopitch	1	1	Job Reference (optional)	175564037

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:02 ID:5UwbulBaxRraWvBcHuFVmvzXOct-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





5-11-8

Scale = 1:29.6

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	0.84	Vert(LL)	-0.07	2-5	>997	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.14	2-5	>499	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: 26 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 -- 3-0-10

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=109 (LC 9)

Max Uplift 2=-91 (LC 8), 5=-66 (LC 12) Max Grav 2=329 (LC 1), 5=259 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-146/86, 4-5=-200/293

BOT CHORD 2-5=-48/52

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 5-10-4 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 2 SP 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 66 lb uplift at joint 5.

- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 12,2025

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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



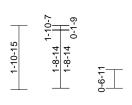
Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	D4	Half Hip Girder	1	1	Job Reference (optional)	75564038

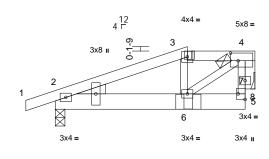
Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:02 ID:bWzFk1IgD?kULBPgnBTSaVzXOgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



NAILED







THJA26

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

Scale = 1:34.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	0.01	2-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	2-6	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SPF No.2 2x3 SPF No.2 WEBS 2x4 SP No.2 OTHERS WEDGE Left: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-8 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 2=0-3-8, 8= Mechanical (size)

Max Horiz 2=58 (LC 31)

Max Uplift 2=-134 (LC 8), 8=-114 (LC 8) Max Grav 2=427 (LC 1), 8=390 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/8, 2-3=-525/175, 3-4=-450/229,

5-7=-13/37, 4-7=-13/37

BOT CHORD 2-6=-199/445, 5-6=-60/100

WEBS 3-6=-43/153, 4-6=-203/444, 4-8=-417/240

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) 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 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 114 lb uplift at joint
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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 1 ply Right Hand Hip) or equivalent at 3-11-11 from the left end to connect truss(es) to back face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 14) 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, 2-5=-20

Concentrated Loads (lb)

Vert: 3=-51 (B), 6=-207 (B)



August 12,2025

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

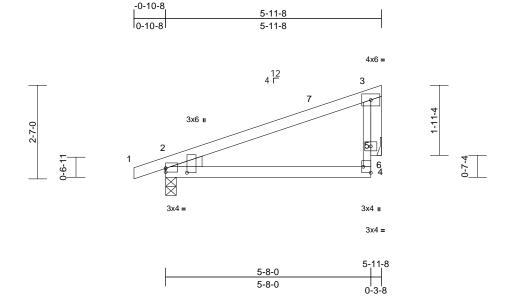
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	D5	Monopitch	2	1	Job Reference (optional)	175564039

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:02 ID:qds4CDAK7R0hhuooq9lfJuzXOi3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.02	2-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.05	2-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 25 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x3 SPF No.2 WEBS 2x4 SP No.2 **OTHERS** WEDGE Left: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing

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

Max Horiz 2=84 (LC 12)

Max Uplift 2=-91 (LC 8), 6=-64 (LC 12)

Max Grav 2=336 (LC 1), 6=223 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/2, 2-3=-229/65, 4-5=0/116,

3-5=-132/280

BOT CHORD 2-4=-128/156 WEBS 3-6=-116/0

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) 0-9-8 to 5-9-8, Interior (1) 5-9-8 to 7-2-12 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
- 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 64 lb uplift at joint

- 6) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 12,2025

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

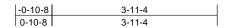
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

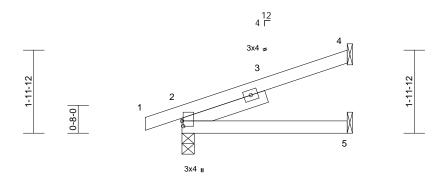


Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	J1	Jack-Open	9	1	Job Reference (optional)	175564040

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:02 ID:taSTi6ix2L8dZNOgki0MTmzXOcD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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)	I/defI	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

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

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.

- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 12,2025

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

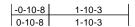
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	J2	Jack-Open	14	1	Job Reference (optional)	175564041

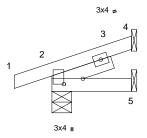
Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:02 ID:AwN7AVnKOV0duRQ0fge?FEzXOc6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1











1-10-3

Scale	= '	1.26	۶

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	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 35 lb uplift at joint 4.

- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 12,2025

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

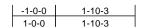
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

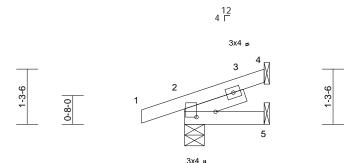


Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	J3	Jack-Open	1	1	Job Reference (optional)	175564042

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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	0.07	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: 10 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=41 (LC 12)

Max Uplift 2=-65 (LC 8), 4=-34 (LC 12)

Max Grav 2=172 (LC 1), 4=45 (LC 1), 5=37

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-2/0, 2-4=-44/16

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
- 2) 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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 4.

- 6) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 12,2025

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

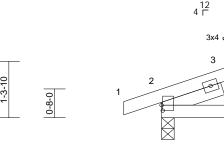


Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	J4	Jack-Open	2	1	Job Reference (optional)	175564043

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:03 ID:erP3p1bH9a?uz_CyjJLFcszXOcM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





3x4 II

1-10-15

Scale = 1:26.7

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	0.06	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: 10 lb	FT = 20%

LUMBER

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

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

TOP CHORD Structural wood sheathing directly applied or

1-10-15 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=41 (LC 12)

Max Uplift 2=-57 (LC 8), 4=-36 (LC 12) Max Grav 2=161 (LC 1), 4=52 (LC 1), 5=38

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-44/17

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 36 lb uplift at joint 4.

- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 12,2025

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



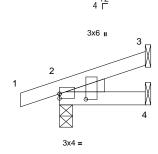
Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	J5	Jack-Open	1	1	Job Reference (optional)	175564044

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:03 ID:Ekb4ztdYPogRda7vVRTKJhzXOhU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

-0-10-8	1-11-0
0-10-8	1-11-0





1-11-0



Scale = 1:25.8

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

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	0.12	Vert(LL)	0.00	2-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	2-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 9 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEDGE Left: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-7-0 oc purlins.

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

bracing.

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

Max Horiz 2=41 (LC 8)

Max Uplift 2=-61 (LC 8), 3=-33 (LC 12) Max Grav 2=163 (LC 1), 3=50 (LC 1), 4=38

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/2, 2-3=-44/22

BOT CHORD 2-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 3.

- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 12,2025

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

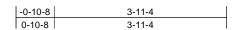
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

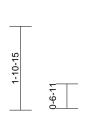


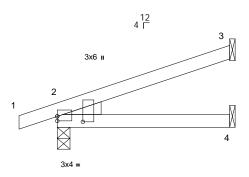
Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	J6	Jack-Open	1	1	Job Reference (optional)	175564045

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:03 ID:AsBPqIR8xBnZKGU17nipCXzXOhj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







3-11-4

Scale = 1:26.3

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

		ı		I								
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.01	2-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	2-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 15 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEDGE Left: 2x4 SP No.2

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, 3= Mechanical, 4=

Mechanical Max Horiz 2=70 (LC 8)

Max Uplift 2=-76 (LC 8), 3=-69 (LC 12) Max Grav 2=249 (LC 1), 3=121 (LC 1), 4=75

(LC 3)

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/2, 2-3=-85/37

BOT CHORD 2-4=0/0

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) 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 69 lb uplift at joint 3.

- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 12,2025

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



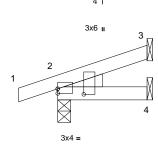
Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	J7	Jack-Open	1	1	Job Reference (optional)	175564046

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:03

Page: 1

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







2-0-0

Scale = 1:25.8

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

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	0.13	Vert(LL)	0.00	2-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	2-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 9 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEDGE Left: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-0-0 oc purlins.

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

bracing.

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

Max Horiz 2=42 (LC 8)

Max Uplift 2=-61 (LC 8), 3=-35 (LC 12) Max Grav 2=166 (LC 1), 3=54 (LC 1), 4=39

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/2, 2-3=-46/23

BOT CHORD 2-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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 35 lb uplift at joint 3.

- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 12,2025

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

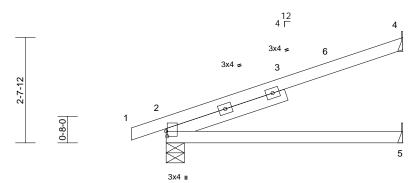


Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	J8	Jack-Open	32	1	Job Reference (optional)	175564047

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:03 ID:y?n6v?h_L0KNnGwv5Zm_S1zXOLS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





5-11-4

Scale = 1:28.9

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

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.

- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 12,2025

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

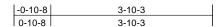
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

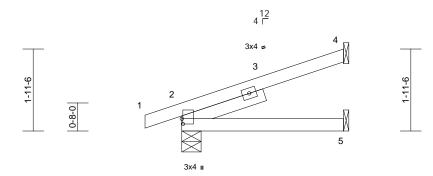


Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	J9	Jack-Open	11	1	Job Reference (optional)	75564048

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:03 ID:Qwp3YXVy76Jespiq9BTEpfzXOLi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?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.

- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 12,2025

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

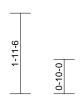


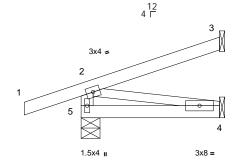
Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	J10	Jack-Open	1	1	Job Reference (optional)	175564049

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:03 ID:Qwp3YXVy76Jespiq9BTEpfzXOLi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1









Scale = 1:27.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.01	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	4-5	>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%

LUMBER

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

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

BRACING

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

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

bracing.

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

5=0-5-8

Max Horiz 5=65 (LC 8)

Max Uplift 3=-46 (LC 12), 5=-100 (LC 8)

Max Grav 3=84 (LC 1), 4=64 (LC 3), 5=274

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-242/276, 1-2=0/34, 2-3=-47/26

BOT CHORD 4-5=-150/35 WEBS 2-4=-36/152

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 5 SP 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 46 lb uplift at joint 3.

- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 12,2025

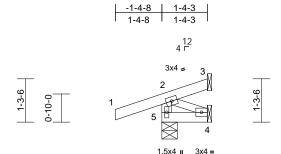




Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	J11	Jack-Open	1	1	Job Reference (optional)	175564050

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:03 ID:Qwp3YXVy76Jespiq9BTEpfzXOLi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:34.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	4-5	>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: 8 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-4-3 oc purlins, except end verticals.

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

bracing.

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

5=0-5-8

Max Horiz 5=36 (LC 11)

Max Uplift 3=-26 (LC 1), 4=-12 (LC 8), 5=-111 (LC 8)

Max Grav 3=29 (LC 8), 4=24 (LC 3), 5=228

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-216/257, 1-2=0/34, 2-3=-35/15

BOT CHORD 4-5=-80/13 WEBS 2-4=-14/89

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 5 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 26 lb uplift at joint 3

- 6) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 4. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 12,2025

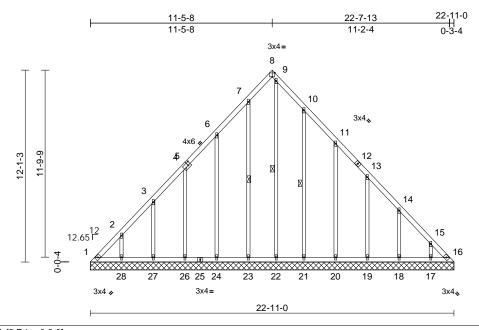
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	LAY01	Lay-In Gable	1	1	Job Reference (optional)	175564051

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:03 ID:MJxpzDWCejZM66rCHcWiu4zXOLg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:72.6

Plate Offsets (X, Y):	[5:0-2-0,0-2-4], [8:Edge,0-3-0]
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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	0.12	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	0.31	Horiz(TL)	0.01	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 136 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.

WFBS 1 Row at midpt 7-23, 9-22, 10-21 1=22-11-0, 16=22-11-0, **REACTIONS** (size)

17=22-11-0, 18=22-11-0, 19=22-11-0, 20=22-11-0, 21=22-11-0, 22=22-11-0, 23=22-11-0, 24=22-11-0,

26=22-11-0, 27=22-11-0, 28=22-11-0

Max Horiz 1=-333 (LC 8)

Max Uplift 1=-159 (LC 10), 16=-137 (LC 11), 17=-120 (LC 13), 18=-140 (LC 13), 19=-134 (LC 13), 20=-143 (LC 13), 21=-137 (LC 13), 23=-73 (LC 12), 24=-153 (LC 12), 26=-134 (LC 12),

27=-136 (LC 12), 28=-137 (LC 12) Max Grav 1=350 (LC 12), 16=341 (LC 13),

17=182 (LC 20), 18=211 (LC 20), 19=204 (LC 20), 20=210 (LC 20), 21=200 (LC 20), 22=219 (LC 13), 23=191 (LC 19), 24=211 (LC 19), 26=206 (LC 19), 27=206 (LC 19),

28=209 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-501/325, 2-3=-374/231, 3-4=-239/181, 4-6=-165/132, 6-7=-140/165, 7-8=-180/186,

8-9=-67/55, 9-10=-200/194, 10-11=-101/101, 11-13=-128/87, 13-14=-234/139 14-15=-371/246, 15-16=-479/329

BOT CHORD 1-28=-232/346, 27-28=-233/346, 26-27=-233/346, 24-26=-233/346, 23-24=-233/346, 22-23=-233/346,

21-22=-233/346, 20-21=-233/346, 19-20=-233/346, 18-19=-233/346, 17-18=-233/346, 16-17=-232/346

2-28=-177/155, 3-27=-183/162, 4-26=-178/157, 6-24=-200/177, 7-23=-153/96, 9-22=-199/148, 10-21=-176/159, 11-20=-189/167, 13-19=-179/158, 14-18=-187/165,

15-17=-156/136

NOTES

WFBS

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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 11-5-12, Exterior(2R) 11-5-12 to 16-5-12, Interior (1) 16-5-12 to 22-7-7 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.
- 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

9) N/A

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

LOAD CASE(S) Standard



August 12,2025

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 - BY Lot 350	
P250562-01	LAY02	Lay-In Gable	1	1	Job Reference (optional)	175564052

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:03 ID:MJxpzDWCejZM66rCHcWiu4zXOLg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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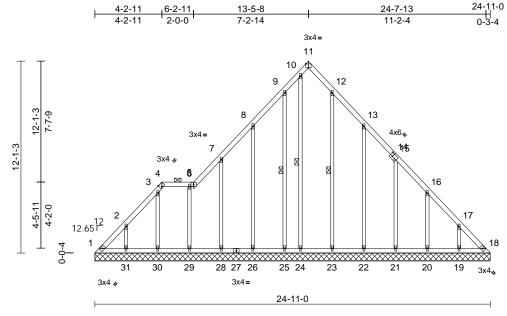


Plate Offsets (X, Y): [4:0-1-7,Edge], [11:Edge,0-3-0], [14:0-2-0,0-2-4]

Scale = 1:72.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.13	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	0.32	Horiz(TL)	0.01	18	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 147 lb	FT = 20%

		TOP (
2x4 SP N	0.2	
200 011	10.2	
Structura	wood shoothing directly applied or	
	9 ,	
		BOT (
	,	
	ing directly applied or 10-0-0 oc	
(size)		
	-,	WEBS
	23=24-11-0, 24=24-11-0,	WLD
	25=24-11-0, 26=24-11-0,	
	28=24-11-0, 29=24-11-0,	
	30=24-11-0, 31=24-11-0	
Max Horiz	1=-333 (LC 8)	
Max Uplift	1=-151 (LC 10), 18=-130 (LC 11),	
	19=-137 (LC 13), 20=-137 (LC 13),	NOTE
		1) U
	23=-46 (LC 13), 25=-122 (LC 12).	th
		2) W
	29=-70 (LC 8), 30=-304 (LC 12),	Va
	2x4 SP N 2x3 SPF I Structural 6-0-0 oc p 2-0-0 oc p Rigid ceili bracing. 1 Row at (size)	1 Row at midpt 9-25, 10-24, 12-23 (size) 1=24-11-0, 18=24-11-0, 19=24-11-0, 21=24-11-0, 22=24-11-0, 23=24-11-0, 24=24-11-0, 25=24-11-0, 26=24-11-0, 26=24-11-0, 28=24-11-0, 30=24-11-0, 31=24-11-0 Max Horiz 1=-333 (LC 8) Max Uplift 1=-151 (LC 10), 18=-130 (LC 11), 19=-137 (LC 13), 20=-137 (LC 13), 21=-133 (LC 13), 22=-160 (LC 12), 26=-160 (LC 12), 28=-98 (LC 12), 26=-160 (LC 12), 28=-98 (LC 12),

28=193 (LC 19), 29=215 (LC 20), 30=243 (LC 19), 31=210 (LC 19) (lb) - Maximum Compression/Maximum

31=-126 (LC 12)

1=353 (LC 12), 18=343 (LC 13),

19=209 (LC 20), 20=206 (LC 20),

21=206 (LC 20), 22=211 (LC 20),

23=190 (LC 20), 24=205 (LC 13),

25=155 (LC 19), 26=218 (LC 19),

Max Grav

FORCES

CHORD 1-2=-506/331, 2-3=-388/235, 3-4=-117/87, 4-5=-195/119, 5-6=-195/119, 6-7=-222/159, 7-8=-152/124, 8-9=-123/134, 9-10=-191/199, 10-11=-77/68, 11-12=-152/146, 12-13=-115/121, 13-15=-127/92 15-16=-229/141, 16-17=-364/233, 17-18=-490/331 CHORD 1-31=-242/365, 30-31=-242/365, 29-30=-242/365, 28-29=-242/365, 26-28=-242/365, 25-26=-242/365, 24-25=-242/365, 23-24=-242/365, 22-23=-242/365, 21-22=-242/365, 20-21=-242/365. 19-20=-242/365. 18-19=-242/365 S 2-31=-172/142, 3-30=-260/330, 5-29=-174/94, 7-28=-158/122, 8-26=-201/185, 9-25=-150/139, 10-24=-187/138, 12-23=-148/71

ES

Inbalanced roof live loads have been considered for

13-22=-202/184, 15-21=-176/156, 16-20=-181/162, 17-19=-175/155

- Vind: ASCE 7-16; Vult=115mph (3-second gust) /asd=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 6-2-14, Interior (1) 6-2-14 to 13-5-12, Exterior(2R) 13-5-12 to 18-5-12, Interior (1) 18-5-12 to 24-7-7 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.
- 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 chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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



August 12,2025

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

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

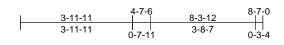


Ply Job Truss Truss Type Qty Roof - BY Lot 350 175564053 P250562-01 LAY03 Lay-In Gable 1 Job Reference (optional)

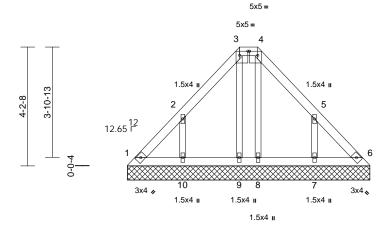
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:04 ID:XUB0rCOD4T7lysU2czqGd_zXMe5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



8-7-0



Scale = 1:40.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 38 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins, except

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

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

bracing.

REACTIONS (size) 1=8-7-0, 6=8-7-0, 7=8-7-0,

8=8-7-0, 9=8-7-0, 10=8-7-0

Max Horiz 1=110 (LC 9)

Max Uplift 1=-32 (LC 8), 6=-10 (LC 9), 7=-158 (LC 13), 9=-14 (LC 9), 10=-158 (LC

12)

1=98 (LC 20), 6=86 (LC 22), 7=232 Max Grav

(LC 20), 8=87 (LC 26), 9=97 (LC

22), 10=232 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-116/96, 2-3=-105/90, 3-4=-93/91,

4-5=-105/86, 5-6=-96/67

1-10=-57/90, 9-10=-58/90, 8-9=-58/90,

BOT CHORD 7-8=-58/90. 6-7=-57/90

WEBS 2-10=-233/183, 3-9=-71/29, 4-8=-62/8,

5-7=-233/183

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) 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.
- Gable requires continuous bottom chord bearing. 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.
- 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) N/A
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



August 12,2025

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 - BY Lot 350 175564054 P250562-01 LAY04 Lay-In Gable 1 Job Reference (optional)

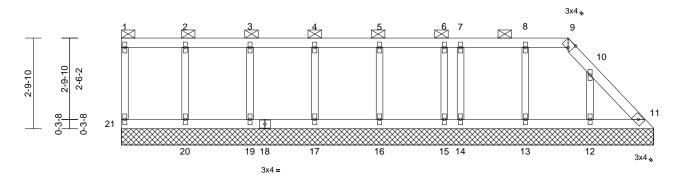
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:04 ID:rxNwNk_UXPyokPL?JvvgdczXOZG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



12 112.65



Scale = 1:35.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.Ó	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a		n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 66 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-9.

Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

REACTIONS (size)

11=16-5-2, 12=16-5-2, 13=16-5-2, 14=16-5-2, 15=16-5-2, 16=16-5-2, 17=16-5-2, 19=16-5-2, 20=16-5-2, 21=16-5-2

Max Horiz 21=-107 (LC 8)

Max Uplift 11=-20 (LC 9), 12=-90 (LC 13),

13=-51 (LC 8), 14=-29 (LC 9), 15=-25 (LC 8), 16=-40 (LC 8), 17=-40 (LC 9), 19=-40 (LC 8),

20=-43 (LC 9), 21=-18 (LC 8) Max Grav

11=95 (LC 19), 12=195 (LC 20), 13=185 (LC 1), 14=108 (LC 1), 15=108 (LC 1), 16=185 (LC 1),

17=179 (LC 1), 19=179 (LC 1), 20=190 (LC 1), 21=70 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-21=-54/28, 1-2=-53/56, 2-3=-53/56, 3-4=-53/56, 4-5=-53/56, 5-6=-53/56,

6-7=-53/56, 7-8=-53/56, 8-9=-53/56, 9-10=-70/56, 10-11=-156/161

BOT CHORD 20-21=-125/130, 19-20=-125/130, 17-19=-125/130, 16-17=-125/130,

15-16=-125/130, 14-15=-125/130, 13-14=-125/130, 12-13=-125/130,

11-12=-125/130

WEBS

2-20=-148/70, 3-19=-139/64, 4-17=-140/63, 5-16=-144/65, 6-15=-85/40, 7-14=-84/43, 8-13=-144/76, 10-12=-201/148

16-5-2

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) 0-1-4 to 5-1-4, Interior (1) 5-1-4 to 13-9-8, Exterior(2E) 13-9-8 to 16-1-5 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 arip 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 chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) N/A
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



August 12,2025

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

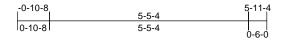
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

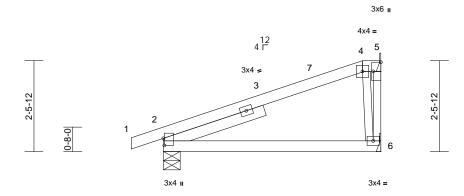


Job	Truss	Truss Type	Qty	Ply	Roof - BY Lot 350	
P250562-01	M1	Half Hip	1	1	Job Reference (optional)	75564055

Run: 8.99 S 8.63 Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Aug 12 08:39:04 ID:UpDkhfgMbjCW96LiYrFlwqzXOLT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





5-11-4

Scale = 1:31.5

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

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	0.64	Vert(LL)	-0.07	2-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.14	2-6	>504	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 27 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 -- 2-10-10

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-4 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=0-5-8, 5= Mechanical, 6=

Mechanical Max Horiz 2=102 (LC 9)

Max Uplift 2=-92 (LC 8), 5=-6 (LC 9), 6=-57

(LC 8)

Max Grav 2=328 (LC 1), 5=14 (LC 1), 6=244

(LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-115/50, 4-5=-45/49, 5-6=0/0

BOT CHORD 2-6=-77/64 WEBS 4-6=-189/254

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ff; 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 5-5-4, Exterior(2E) 5-5-4 to 5-10-0 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
- 2) 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.
- 4) Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.

- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 5 and 57 lb uplift at joint 6.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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



August 12,2025

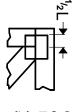
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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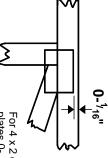


Symbols

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



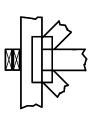
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

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



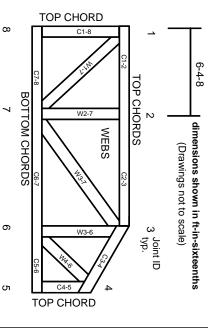
Min size shown is for crushing only reaction section indicates joint number/letter where bearings occur (supports) occur. Icons vary but Indicates location where bearings

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

3:56:25

Damage or Personal Injury Failure to Follow Could Cause Property General Safety No CEVES IN THE STATE OF THE

LEE'S SUMMIT, MISSOURI

08/26/2025

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

- 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.