

RE: Sunflower Modern Prairie 3 Car -

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017

Project Customer: Clayton Properties Project Name: Sunflower Modern Prairie 3 314,434.1200

Lot/Block: Subdivision:

Model: Sunflower Modern Prairie 3 Car

Address:

174482565 174482566 174482567 174482568

Site Information:

City: State:

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

Design Code: IRC2018/TPl2014 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. 123456789111234567190112	Seal# 174482536 174482537 174482538 174482539 174482540 174482541 174482545 174482545 174482546 174482546 174482551 174482551 174482551 174482551 174482551	Truss Name A01 A02 A03 A04 A05 A06 A07 A08 A09 B01 B02 B03 B04 B05 B06 B07 B08 B09 B10 B11 B12	6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25	35 36 37 38 39 40 41 42 43 445 46 47 48 49 551 52	Seal# 174482570 174482571 174482572 174482573 174482576 174482576 174482578 174482578 174482581 174482581 174482581 174482583 174482583 174482584 174482585 174482587	Truss Name HG5 J01 J02 J03 J04 J05 J06 J07 J08 J10 J11 J13 J14 J15 J16 J18 J19 M01 M02	Date 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25 6/26/25
20	174482554	B11	6/26/25		17 1102007	WOZ	0/20/23

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.

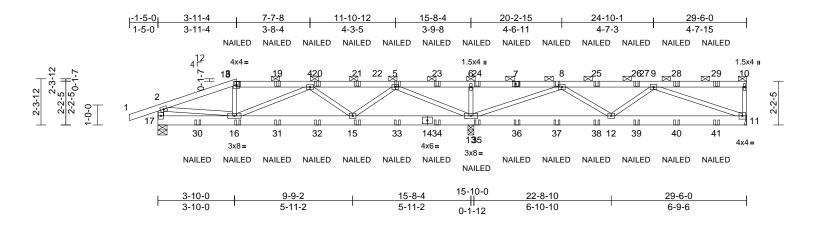


RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

1 of 1

Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	A01	Half Hip Girder	1	2	Job Reference (optional)	174482535

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:51 ID:4_M9To87?QSqmdKZ76eMvozeBhO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:57.7

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	0.45	Vert(LL)	-0.02	15-16	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.05	15-16	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 258 lb	FT = 20%

LUMBER

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

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

BRACING

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

2-0-0 oc purlins (6-0-0 max.): 3-10.

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

bracing.

REACTIONS (size) 11= Mechanical, 13=0-3-8,

17=0-5-8 Max Horiz 17=94 (LC 9)

Max Uplift 11=-148 (LC 9), 13=-482 (LC 8),

17=-275 (LC 8)

11=623 (LC 26), 13=2055 (LC 1), Max Grav

17=906 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35, 2-3=-1234/324, 3-4=-1125/331,

4-5=-960/243, 5-6=-287/1072,

6-8=-287/1072, 8-9=-871/160, 9-10=-56/50,

10-11=-172/98, 2-17=-796/345

BOT CHORD 16-17=-205/214, 15-16=-418/1330,

13-15=-169/444, 12-13=-208/546,

11-12=-317/944

WEBS 2-16=-215/930, 3-16=0/207, 6-13=-440/214,

4-15=-485/259, 4-16=-272/124, 5-15=-79/678, 5-13=-1681/474, 8-13=-1727/481, 9-11=-965/298

9-12=-101/185, 8-12=0/519

NOTES

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

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc. 2x3 - 1 row at 0-9-0 oc.

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

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 3-11-4, Exterior(2R) 3-11-4 to 11-0-2, Interior (1) 11-0-2 to 29-4-12 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 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 17 SPF No.2 crushing capacity of 425 psi, Joint 13 SPF No.2 crushing capacity of 425 psi.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at ioint 11
- 12) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17 and 13. This connection is for uplift only and does not consider lateral forces.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

40=-18 (B), 41=-18 (B)

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

> Vert: 1-2=-70, 2-3=-70, 3-10=-70, 11-17=-20 Concentrated Loads (lb)

Vert: 3=-38 (B), 7=-38 (B), 16=-18 (B), 15=-18 (B), 5=-38 (B), 8=-38 (B), 19=-38 (B), 20=-38 (B), 21=-38 (B), 23=-38 (B), 24=-38 (B), 25=-38 (B), 26=-38 (B), 28=-38 (B), 29=-38 (B), 30=-117 (B), 31=-18 (B), 32=-18 (B), 33=-18 (B), 34=-18 (B), 35=-18 (B), 36=-18 (B), 37=-18 (B), 38=-18 (B), 39=-18 (B),

> OF MISSO JIE LU BEOTHERSTONAL - 20 NUMBER PE-029327 June 26,2025

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

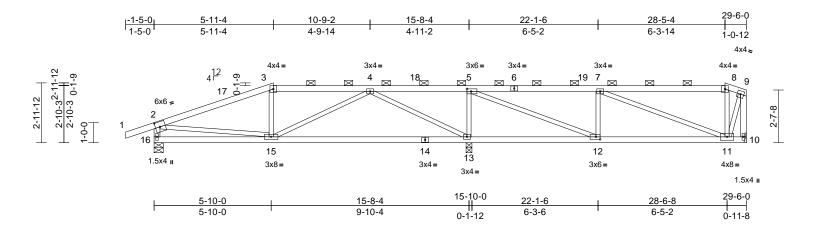
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	
Sunflower Modern	A02	Hip	1	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:52 ID:53Ttk2zm_J0Bw4Xd6Oslg8zeBgK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.4

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

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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	0.94	Vert(LL)	-0.20	13-15	>954	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.39	13-15	>473	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 128 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* 14-10:2x4 SP 1650F BOT CHORD

1.5E

WFBS 2x3 SPF No.2 *Except* 16-2,10-9:2x4 SP

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

5-6-11 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-10 max.): 3-8.

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

bracing, Except:

6-0-0 oc bracing: 12-13.

REACTIONS (size) 10= Mechanical, 13=0-3-8,

16=0-5-8 Max Horiz 16=117 (LC 9)

Max Uplift 10=-113 (LC 9), 13=-326 (LC 8),

16=-206 (LC 8)

10=501 (LC 26), 13=1534 (LC 1), Max Grav

16=709 (LC 25)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35, 2-3=-905/236, 3-4=-800/256,

4-5=-135/434, 5-7=-622/192, 7-8=-219/92 8-9=-195/78, 2-16=-668/323, 9-10=-563/90

15-16=-300/280, 13-15=-207/471,

12-13=-434/163, 11-12=-233/622, 10-11=-44/51

WEBS 3-15=-80/125, 8-11=-263/197, 2-15=-63/569,

> 9-11=-144/605, 5-13=-871/307, 4-15=-56/387, 4-13=-1019/356.

7-11=-437/152, 7-12=-316/187,

5-12=-334/1116

NOTES

BOT CHORD

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 5-11-4, Exterior(2R) 5-11-4 to 13-0-2, Interior (1) 13-0-2 to 28-5-4, Exterior(2É) 28-5-4 to 29-4-4 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 16 SP No.2 crushing capacity of 565 psi, Joint 13 SP 1650F 1.5E crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 10.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 16 and 13. 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.

LOAD CASE(S) Standard



June 26,2025

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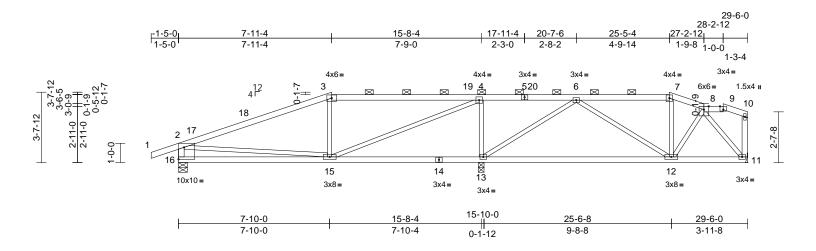
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	A03	Roof Special	1	1	Job Reference (optional)	174482537

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:52 ID:Srs1UCfvoW4EehpOO9sRxxzeBfS-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:59.7

Plate Offsets (X, Y): [9:0-2-0,Edge], [16:Edge,0-7-8]

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	0.97	Vert(LL)	-0.19	12-13	>868	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.38	12-13	>431	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 129 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 3-5:2x4 SP 1650F

1.5E

BOT CHORD 2x4 SP No.2

2x3 SPF No.2 *Except* 16-2,11-10:2x4 SP **WEBS**

No.2

BRACING TOP CHORD

BOT CHORD

TOP CHORD

Structural wood sheathing directly applied or

4-7-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7, 8-9. Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 11= Mechanical, 13=0-3-8,

16=0-5-8

Max Horiz 16=107 (LC 9)

Max Uplift 11=-122 (LC 9), 13=-292 (LC 8),

16=-217 (LC 8)

11=545 (LC 1), 13=1441 (LC 1), Max Grav

16=755 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/35, 2-3=-888/253, 3-4=-767/283,

4-6=-15/162, 6-7=-499/175, 7-8=-531/163, 8-9=-55/78, 9-10=-63/77, 2-16=-680/350,

10-11=-81/59

BOT CHORD 15-16=-416/484, 13-15=-162/86,

12-13=-222/402, 11-12=-138/370

WEBS 3-15=-253/189, 7-12=-94/90, 8-12=-29/256, 8-11=-588/154, 2-15=0/338, 4-13=-889/343,

4-15=-283/990. 6-13=-667/250. 6-12=0/210

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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 7-11-4, Exterior(2R) 7-11-4 to 15-0-2, Interior (1) 15-0-2 to 25-5-4, Exterior(2E) 25-5-4 to 27-2-12, Interior (1) 27-2-12 to 28-2-12, Exterior(2E) 28-2-12 to 29-4-4 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 16 SP No.2 crushing capacity of 565 psi, Joint 13 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 122 lb uplift at joint 11.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 16 and 13. 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.

LOAD CASE(S) Standard



June 26,2025

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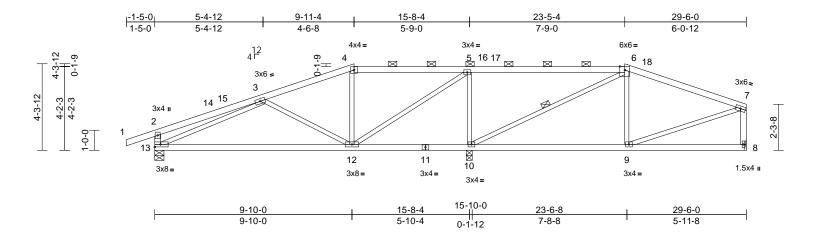
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Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	A04	Hip	1	1	Job Reference (optional)	

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:52 ID:EkzC0?nEu5n2I_QGKB1ECZzeBe?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.4

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	0.69	Vert(LL)	-0.24	12-13	>790	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.48	12-13	>389	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 130 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 4-6:2x4 SP 1650F TOP CHORD

1.5E

BOT CHORD 2x4 SP No.2

WEBS 2x3 SPF No.2 *Except* 13-2:2x4 SP 2400F

2.0E. 8-7:2x4 SP No.2

BRACING

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

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

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

bracing.

WEBS 1 Row at midpt 6-10

REACTIONS (size) 8= Mechanical, 10=0-3-8, 13=0-5-8

Max Horiz 13=78 (LC 11)

8=-109 (LC 9), 10=-325 (LC 8), Max Uplift

13=-196 (LC 8)

8=553 (LC 26), 10=1489 (LC 1), Max Grav

13=731 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/35, 2-3=-313/69, 3-4=-556/160, 4-5=-483/175, 5-6=-47/227, 6-7=-578/165,

2-13=-372/236, 7-8=-506/178

12-13=-326/788, 10-12=-225/157,

9-10=-125/493, 8-9=-62/70

WEBS 4-12=-138/105, 6-9=0/209, 3-13=-607/238,

> 7-9=-64/457, 3-12=-351/265 5-10=-1032/391, 5-12=-219/846,

6-10=-750/239

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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 9-11-4, Exterior(2R) 9-11-4 to 17-0-2, Interior (1) 17-0-2 to 23-5-4, Exterior(2E) 23-5-4 to 29-4-4 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 13 SP No.2 crushing capacity of 565 psi, Joint 10 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 109 lb uplift at ioint 8.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 10. 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.

LOAD CASE(S) Standard



June 26,2025

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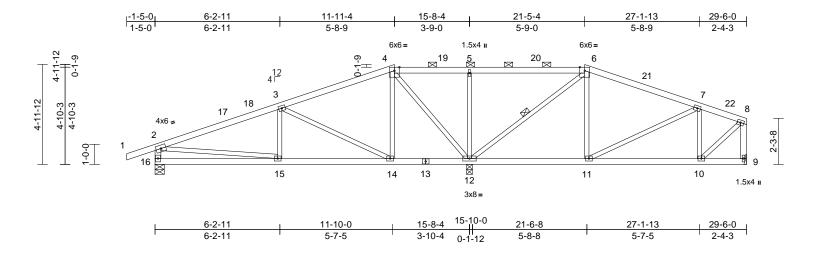
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Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	A05	Hip	1	1	Job Reference (optional)	174482539

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:53 ID:X90YlehHE7EPoVfgERtqlNzeBcq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:57.5

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.04	15-16	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.08	15-16	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 137 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 16-2.9-8:2x4 SP No.2 WEBS

BRACING

BOT CHORD

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

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

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

WFBS 1 Row at midpt 6-12

REACTIONS (size) 9= Mechanical, 12=0-3-8, 16=0-5-8

Max Horiz 16=70 (LC 12)

Max Uplift 9=-105 (LC 9), 12=-327 (LC 8), 16=-188 (LC 8)

Max Grav 9=516 (LC 26), 12=1611 (LC 1),

16=681 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35, 2-3=-828/186, 3-4=-190/93,

4-5=-72/432, 5-6=-72/432, 6-7=-392/140

7-8=-424/158, 2-16=-622/297, 8-9=-506/133

BOT CHORD 15-16=-186/266, 14-15=-239/723,

12-14=-21/110. 11-12=-49/308. 10-11=-138/404, 9-10=-44/48

WEBS 3-15=0/216, 3-14=-683/253, 4-14=-59/384.

6-12=-811/234, 6-11=0/282, 7-11=-165/120,

7-10=-289/161, 2-15=-54/511,

8-10=-150/553, 5-12=-385/205,

4-12=-815/242

NOTES

Unbalanced roof live loads have been considered for this design

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 11-11-4, Exterior(2R) 11-11-4 to 19-0-2, Interior (1) 19-0-2 to 21-5-4, Exterior(2R) 21-5-4 to 28-6-2, Interior (1) 28-6-2 to 29-4-4 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
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 16 SP No.2 crushing capacity of 565 psi, Joint 12 SP No.2 crushing capacity
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at ioint 9.
- 10) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16 and 12. This connection is for uplift only and does not consider lateral forces.
- 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



June 26,2025

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

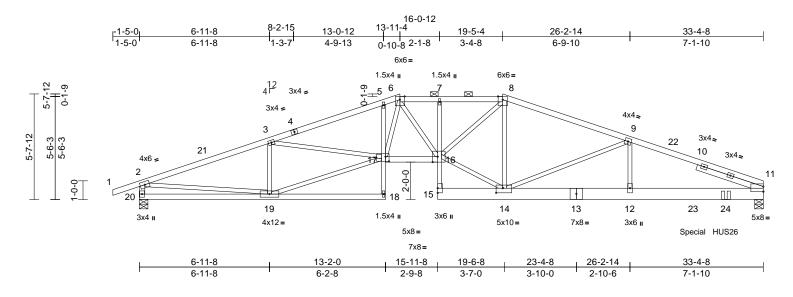
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	A06	Hip Girder	1	2	Job Reference (optional)	174482540

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:53 ID:MsQg8KANpQHkbfiMarbCMpzeBcC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.6

Plate Offsets (X, Y): [11:Edge,0-3-5], [14:0-4-4,0-3-0], [16:0-3-4,Edge], [17:0-2-4,0-3-0]

-												
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	0.78	Vert(LL)	-0.23	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.42	16-17	>957	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.15	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 363 lb	FT = 20%

LUMBER

WFBS

2x4 SP No.2 *Except* 8-11:2x4 SP 1650F TOP CHORD

1.5E

BOT CHORD 2x4 SP No.2 *Except* 18-5.7-15:2x3 SPF No.2, 15-13:2x8 SPF No.2, 13-11:2x8 SP

2400F 2.0E

2x3 SPF No.2 *Except* 20-2:2x4 SP 2400F

2.0E Right 2x4 SP 2400F 2.0E -- 3-8-13

SLIDER

BRACING Structural wood sheathing directly applied or

TOP CHORD

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

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

bracing. REACTIONS (size)

11=0-5-8, 20=0-5-8 Max Horiz 20=-88 (LC 17)

Max Uplift 11=-934 (LC 9), 20=-423 (LC 8)

Max Grav 11=3942 (LC 1), 20=1878 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD

1-2=0/35 2-3=-3622/953 3-5=-5349/1426 5-6=-5216/1469, 6-7=-5144/1413,

7-8=-5126/1410, 8-9=-3573/1012,

9-11=-5912/1534, 2-20=-1796/610

BOT CHORD 19-20=-207/503, 18-19=-12/75, 17-18=0/108, 5-17=-36/230, 16-17=-1076/4783,

15-16=-55/175, 7-16=-343/152,

14-15=-22/78, 12-14=-1354/5443,

11-12=-1354/5443

3-19=-1280/438, 17-19=-845/3457, 3-17=-371/1668, 6-17=-321/895,

6-16=-211/804, 14-16=-856/3726, 8-16=-600/2449, 8-14=-979/287, 9-14=-2350/687, 9-12=-260/1464,

2-19=-691/2874

NOTES

WEBS

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: 2x4 - 1 row at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc, 2x8 - 2 rows staggered at 0-5-0 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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 13-11-4, Exterior(2E) 13-11-4 to 19-5-4, Exterior(2R) 19-5-4 to 26-2-14, Interior (1) 26-2-14 to 33-4-8 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 20 SP No.2 crushing capacity of 565 psi, Joint 11 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) 11. This connection is for uplift only and does not consider lateral forces.

- 10) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent at 31-4-8 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2038 lb down and 492 lb up at 29-7-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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



June 26,2025

Continued on page 2

WARNING - Ve

· 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 174482540 2 Sunflower Modern A06 Hip Girder 1 Job Reference (optional)

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

Run: $8.63\,S\,$ Sep 26 2024 Print: $8.630\,S\,$ Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:53 ID: MsQg8KANpQHkbfiMarbCMpzeBcC-RfC? PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? for the property of the property

Page: 2

Vert: 1-2=-70, 2-6=-70, 6-8=-70, 8-11=-70, 18-20=-20, 16-17=-20, 11-15=-20

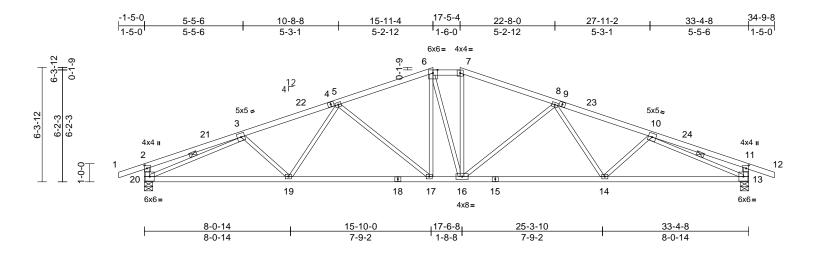
Concentrated Loads (lb) Vert: 23=-2038 (B), 24=-682 (B)



Job	Truss	Truss Type	Qty	Ply	
Sunflower Modern	A07	Hip	1	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:53 $ID: BYroY? fSOjJ2Pom2wEJb_EzeBba-RfC? PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? factor of the property of the p$

Page: 1



Scale = 1:63.6

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

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	0.74	Vert(LL)	-0.20	17-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.42	17-19	>944	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.13	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 155 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-4,9-12:2x4 SP

1650F 1.5E

BOT CHORD 2x4 SP 1650F 1.5E

2x3 SPF No.2 *Except* 20-2,13-11:2x4 SP WFBS No.2

BRACING TOP CHORD

WFBS

Structural wood sheathing directly applied or

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

BOT CHORD Rigid ceiling directly applied or 9-1-14 oc

bracing.

3-20, 10-13 1 Row at midpt

REACTIONS (size) 13=0-5-8, 20=0-5-8 Max Horiz 20=81 (LC 12)

Max Uplift 13=-339 (LC 9), 20=-339 (LC 8)

Max Grav 13=1598 (LC 1), 20=1598 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35. 2-3=-436/135. 3-5=-2802/693.

> 5-6=-2253/629, 6-7=-2086/635, 7-8=-2254/631, 8-10=-2801/700

10-11=-437/136, 11-12=0/35, 2-20=-435/262,

11-13=-435/261

BOT CHORD 19-20=-609/2617, 17-19=-539/2492,

16-17=-375/2084, 14-16=-508/2492,

13-14=-577/2617

WEBS 6-17=-81/462, 6-16=-235/245, 7-16=-89/427,

3-20=-2512/608, 10-13=-2510/604,

3-19=-88/167, 5-19=-12/277, 5-17=-565/211,

8-16=-563/211, 8-14=-12/277, 10-14=-88/167

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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 15-11-4, Exterior(2E) 15-11-4 to 17-5-4, Exterior(2R) 17-5-4 to 24-6-2, Interior (1) 24-6-2 to 34-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- All bearings are assumed to be SP 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) 20 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.
- 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



June 26,2025

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

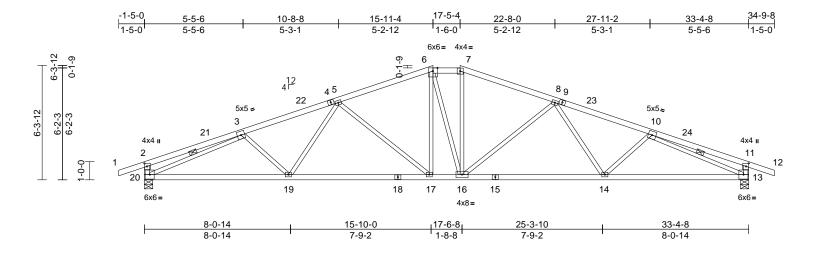
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	
Sunflower Modern	A08	Hip	1	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:53 $ID: BYroY? fSOjJ2Pom2wEJb_EzeBba-RfC? PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? factor of the property of the p$

Page: 1



Scale = 1:63.6

Plate Offsets	(X, Y):	[2:0-2-0,0-1-12],	[11:0-2-0,0-1-12]
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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	0.74	Vert(LL)	-0.20	17-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.42	17-19	>945	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.13	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 155 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-4,9-12:2x4 SP

1650F 1.5E 2x4 SP 1650F 1.5E

BOT CHORD 2x3 SPF No.2 *Except* 20-2,13-11:2x4 SP WFBS

1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

BOT CHORD Rigid ceiling directly applied or 9-1-14 oc

bracing.

WFBS 3-20, 10-13 1 Row at midpt REACTIONS (size) 13=0-5-8, 20=0-5-8

Max Horiz 20=-81 (LC 17)

Max Uplift 13=-339 (LC 9), 20=-339 (LC 8) Max Grav 13=1598 (LC 1), 20=1598 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35. 2-3=-440/136. 3-5=-2802/693.

> 5-6=-2253/629, 6-7=-2086/635, 7-8=-2254/631, 8-10=-2801/700

10-11=-440/136, 11-12=0/35, 2-20=-436/262,

11-13=-436/262

BOT CHORD 19-20=-609/2617, 17-19=-539/2492,

16-17=-375/2084, 14-16=-508/2492,

13-14=-576/2617

WEBS 6-17=-81/462, 6-16=-235/245, 7-16=-89/427,

3-20=-2508/607, 10-13=-2507/603,

3-19=-88/167, 5-19=-12/277, 5-17=-565/212, LOAD CASE(S) Standard 8-16=-563/211, 8-14=-12/277, 10-14=-88/167

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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 15-11-4, Exterior(2E) 15-11-4 to 17-5-4, Exterior(2R) 17-5-4 to 24-6-2, Interior (1) 24-6-2 to 34-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP 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) 20 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

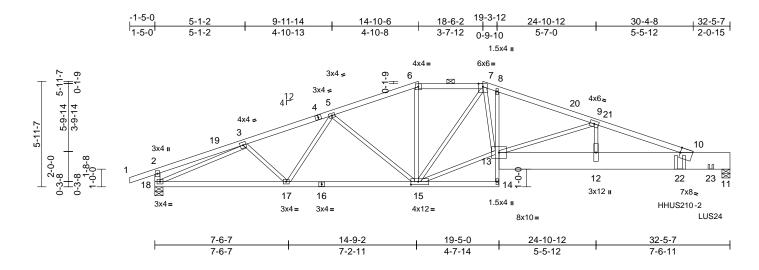
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	A09	Roof Special Girder	1	2	Job Reference (optional)	174482543

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:53 ID:82tMaDSkXvGZgcMDrwyXakyXpc4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:65

Plate Offsets (X, Y): [10:0-0-2,Edge], [15:0-5-0,0-2-0]

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	0.81	Vert(LL)	-0.24	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.42	12-13	>915	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 370 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* 14-8:2x3 SPF No.2. BOT CHORD 13-11:1 1/2" x 11 1/4" 2.0E Microllam® LVL

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

BRACING

BOT CHORD

BOT CHORD

WFBS

NOTES

WFBS

TOP CHORD Structural wood sheathing directly applied or 3-4-7 oc purlins, except end verticals, and

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

bracing

REACTIONS 11=0-5-8, 18=0-5-8 (size) Max Horiz 18=114 (LC 12)

Max Uplift 11=-1138 (LC 9), 18=-413 (LC 8)

Max Grav 11=5917 (LC 1), 18=1920 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/35, 2-3=-444/144, 3-5=-3603/860,

5-6=-3242/849 6-7=-3039/843 7-8=-4647/1210, 8-9=-4736/1162, 9-10=-8100/1821, 2-18=-442/261 17-18=-761/3244, 15-17=-758/3347,

14-15=-42/199, 13-14=0/64, 8-13=-172/201,

12-13=-1623/7478, 10-12=-1623/7478,

10-11=0/0

6-15=-89/631, 7-15=-1673/375,

13-15=-817/3874, 7-13=-666/2748, 9-13=-3296/744, 9-12=-364/2284,

3-18=-3212/742, 3-17=-2/289, 5-17=-48/183,

5-15=-440/222

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: 2x4 - 1 row at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc, 2x12 - 2 rows staggered at 0-2-0 oc.

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

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 14-10-6, Exterior(2E) 14-10-6 to 18-6-2, Exterior(2R) 18-6-2 to 23-6-2, Interior (1) 23-6-2 to 30-4-8 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.

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

Bearings are assumed to be: Joint 18 SP No.2 crushing capacity of 565 psi, Joint 11 Trus Joist® LVL 2.0 E crushing capacity of 750 psi.

LGT2 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.

10) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. This connection is for uplift only and does not consider lateral forces.

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

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

13) Use Simpson Strong-Tie HHUS210-2 (30-16d Girder, 10-16d Truss) or equivalent at 29-7-9 from the left end to connect truss(es) to front face of bottom chord.

14) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent at 31-4-8 from the left end to connect truss(es) to front face of bottom chord.

15) Fill all nail holes where hanger is in contact with lumber. 16) N/A

17) LGT2 Hurricane ties must have two studs in line below the truss

LOAD CASE(S) Standard



Continued on page 2

WARNING - Ver

- 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	
Sunflower Modern	A09	Roof Special Girder	1	2	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:53 ID:82tMaDSkXvGZgcMDrwyXakyXpc4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff

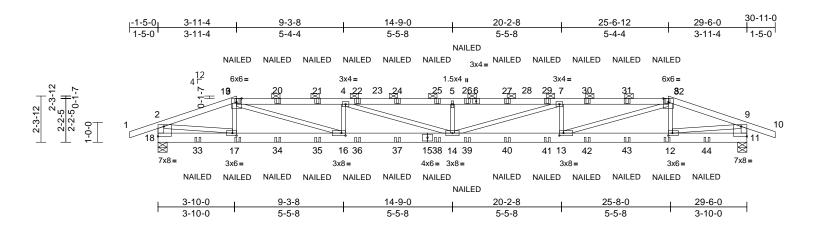
Page: 2

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-70, 2-6=-70, 6-7=-70, 7-10=-70, 14-18=-20, 10-13=-20, 10-11=-90 Concentrated Loads (lb) Vert: 22=-4354 (F), 23=-487 (F)

Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	B01	Hip Girder	1	2	Job Reference (optional)	174482544

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:54 ID:57e2QzG5EP7bJXy1aKBqV1zeC6L-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.7

Plate Offsets (X, Y): [11:Edge,0-6-0], [12:0-2-8,0-1-8], [13:0-2-8,0-1-8], [16:0-2-8,0-1-8], [17:0-2-8,0-1-8], [18:Edge,0-6-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.35	14-16	>996	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.65	14-16	>536	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 265 lb	FT = 20%

LUMBER

BRACING

BOT CHORD

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

2x3 SPF No.2 *Except* 18-2,11-9:2x4 SP WEBS

No 2

TOP CHORD

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

2-0-0 oc purlins (3-11-3 max.): 3-8. Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size) 11=0-5-8, 18=0-5-8

Max Horiz 18=8 (LC 16)

Max Uplift 11=-502 (LC 9), 18=-502 (LC 8)

Max Grav 11=1874 (LC 1), 18=1874 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/35, 2-3=-3296/833, 3-4=-6021/1532, 4-5=-7170/1771 5-7=-7170/1771

7-8=-5978/1519, 8-9=-3311/834, 9-10=0/35,

2-18=-1735/574, 9-11=-1744/575 17-18=-124/435, 16-17=-712/3112,

BOT CHORD

14-16=-1411/6018, 13-14=-1431/5975, 12-13=-736/3123, 11-12=-101/433

3-17=-314/176, 8-12=-282/168, 2-17=-659/2702, 9-12=-663/2717,

3-16=-751/3103, 8-13=-736/3046,

4-16=-940/366, 4-14=-299/1234,

5-14=-511/253, 7-14=-308/1279,

7-13=-967/372

NOTES

WEBS

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.
- 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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 3-11-4, Exterior(2R) 3-11-4 to 11-0-2, Interior (1) 11-0-2 to 25-6-12. Exterior(2E) 25-6-12 to 30-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 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) 18 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) "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: 1-2=-70, 2-3=-70, 3-8=-70, 8-9=-70, 9-10=-70, 11-18=-20

Concentrated Loads (lb)

Vert: 3=-38 (F), 17=-18 (F), 12=-18 (F), 8=-38 (F), 20=-38 (F), 21=-38 (F), 22=-38 (F), 24=-38 (F), 25=-38 (F), 26=-38 (F), 27=-38 (F), 29=-38 (F), 30=-38 (F), 31=-38 (F), 33=-117 (F), 34=-18 (F), 35=-18 (F), 36=-18 (F), 37=-18 (F), 38=-18 (F), 39=-18 (F), 40=-18 (F), 41=-18 (F), 42=-18 (F), 43=-18 (F), 44=-117 (F)



June 26,2025

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

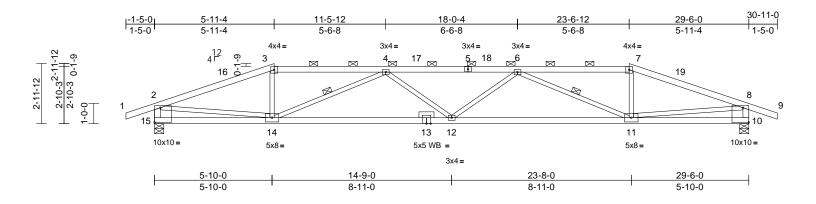
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	
Sunflower Modern	B02	Hip	1	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:54 ID:sCAwEKnRLJPdM_A519xhCuzeC5h-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.2

Plate Offsets (X, Y): [10:Edge,0-8-12], [15:Edge,0-8-12]

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	0.92	Vert(LL)	-0.29	12-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.57	11-12	>617	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.10	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 125 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 3-5,5-7:2x4 SP 2400F

2.0E

BOT CHORD 2x4 SP 1650F 1.5F

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

No.2

OTHERS 2x4 SP No.2

BRACING

WFBS

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

2-11-1 oc purlins, except end verticals, and 2-0-0 oc purlins (3-2-8 max.): 3-7.

BOT CHORD Rigid ceiling directly applied or 7-6-2 oc

bracing.

1 Row at midpt 4-14, 6-11

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

Max Horiz 15=18 (LC 16)

Max Uplift 10=-351 (LC 9), 15=-351 (LC 8) Max Grav 10=1424 (LC 1), 15=1424 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/35, 2-3=-2540/624, 3-4=-2332/619,

4-6=-3746/930, 6-7=-2328/611,

7-8=-2538/614, 8-9=0/35, 2-15=-1369/490

8-10=-1370/486

BOT CHORD 14-15=-163/352, 12-14=-850/3606, 11-12=-903/3652, 10-11=-141/358

WEBS 3-14=-29/510, 7-11=-37/534,

2-14=-410/2012, 8-11=-399/2004,

4-12=0/298, 4-14=-1481/431, 6-12=0/274,

6-11=-1534/446

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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 5-11-4, Exterior(2R) 5-11-4 to 13-0-2, Interior (1) 13-0-2 to 23-6-12, Exterior(2E) 23-6-12 to 30-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP 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) 15 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



June 26,2025

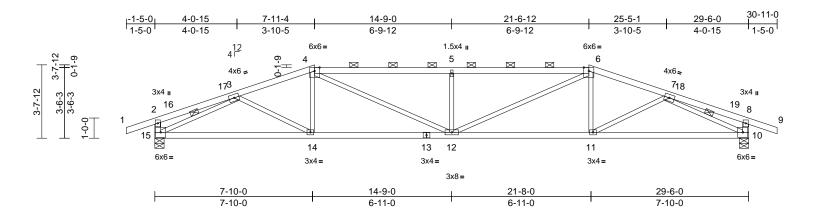
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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	
Sunflower Modern	B03	Hip	1	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:54 ID:OH8zbozTaEQMHSOAzWDRrGzeC5R-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:57.2

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	0.76	Vert(LL)	-0.22	12-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.40	12-14	>885	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.10	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 128 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 4-6:2x4 SP 1650F TOP CHORD

1.5E

BOT CHORD 2x4 SP No.2

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

No.2

BRACING TOP CHORD Structural wood sheathing directly applied or

3-6-0 oc purlins, except end verticals, and

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

BOT CHORD Rigid ceiling directly applied or 7-8-15 oc

bracing.

WEBS 1 Row at midpt 3-15, 7-10

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

Max Horiz 15=30 (LC 16)

Max Uplift 10=-344 (LC 9), 15=-344 (LC 8)

Max Grav 10=1424 (LC 1), 15=1424 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35, 2-3=-289/92, 3-4=-2469/647,

4-5=-3075/857, 5-6=-3075/857,

6-7=-2468/646, 7-8=-290/93, 8-9=0/35,

2-15=-356/223, 8-10=-357/223

14-15=-564/2082. 12-14=-501/2317. 11-12=-498/2316, 10-11=-526/2082

4-14=-34/188, 4-12=-248/953,

5-12=-595/282, 6-12=-248/955

6-11=-35/188, 3-15=-2108/604

7-10=-2106/602, 3-14=-11/412, 7-11=-11/411

NOTES

WFRS

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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 7-11-4, Exterior(2R) 7-11-4 to 14-9-0, Interior (1) 14-9-0 to 21-6-12, Exterior(2R) 21-6-12 to 28-7-10, Interior (1) 28-7-10 to 30-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 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



June 26,2025

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

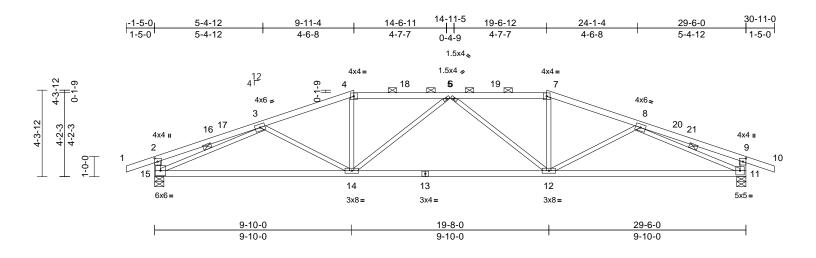
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	
Sunflower Modern	B04	Hip	1	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:54 ID:W2yJu2LHWSC6t3hxjpmT3azeC4z-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.5

Plate Offsets (X, Y): [2:0-2-0,0-1-12], [9:0-2-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.36	12-14	>975	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.97	Vert(CT)	-0.81	12-14	>432	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 129 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

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

2400F 2.0E

WFBS 2x3 SPF No.2 *Except* 15-2,11-9:2x4 SP

1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-3-7 oc purlins, except end verticals, and

2-0-0 oc purlins (3-4-3 max.): 4-7. BOT CHORD Rigid ceiling directly applied or 8-11-2 oc

bracing. WFBS 1 Row at midpt

3-15, 8-11 REACTIONS (size) 11=0-5-8, 15=0-5-8

Max Horiz 15=43 (LC 12)

Max Uplift 11=-334 (LC 9), 15=-334 (LC 8) Max Grav 11=1424 (LC 1), 15=1424 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/35, 2-3=-391/124, 3-4=-2390/644,

TOP CHORD

4-5=-2218/639, 5-6=-2478/763, 6-7=-2208/641, 7-8=-2379/646,

8-9=-410/125, 9-10=0/35, 2-15=-418/256,

9-11=-422/256

BOT CHORD 14-15=-622/2234, 12-14=-596/2478,

11-12=-587/2231

4-14=-50/428, 7-12=-51/426,

3-15=-2135/626, 8-11=-2111/628, 6-12=-479/191, 5-14=-466/194,

8-12=-54/216, 3-14=-46/222

NOTES

WEBS

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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 9-11-4, Exterior(2R) 9-11-4 to 17-0-2, Interior (1) 17-0-2 to 19-6-12, Exterior(2R) 19-6-12 to 26-7-10, Interior (1) 26-7-10 to 30-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 15 SP 1650F 1.5E crushing capacity of 565 psi, Joint 11 SP 2400F 2.0E crushing capacity of 805 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 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



June 26,2025

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

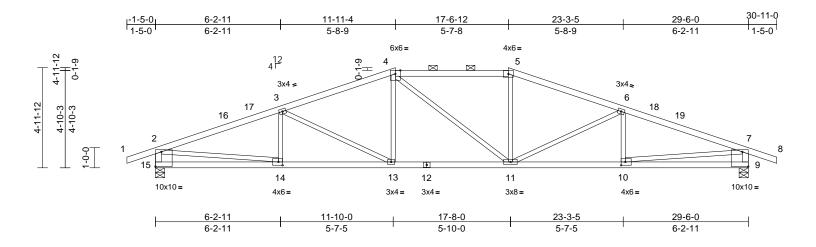
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	B05	Hip	1	1	Job Reference (optional)	174482548

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:55 ID:tYp24OplKR7a329RWVzc8pzeC4M-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.3

Plate Offsets (X, Y): [9:Edge,0-8-12], [10:0-2-8,0-2-0], [14:0-2-8,0-2-0], [15:Edge,0-8-12]

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	0.81	Vert(LL)	-0.15	13-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.30	11-13	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 132 lb	FT = 20%

LUMBER

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

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

2-0-0 oc purlins (3-0-14 max.): 4-5. Rigid ceiling directly applied or 7-7-14 oc

bracing.

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

Max Horiz 15=56 (LC 16)

Max Uplift 9=-323 (LC 9), 15=-323 (LC 8)

Max Grav 9=1424 (LC 1), 15=1424 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35, 2-3=-2515/691, 3-4=-2196/649,

4-5=-2019/677, 5-6=-2193/673,

6-7=-2516/712, 7-8=0/35, 2-15=-1351/503,

7-9=-1352/493

BOT CHORD 14-15=-126/355, 13-14=-589/2318,

11-13=-451/2022, 10-11=-571/2319,

9-10=-75/354

WFBS 3-14=-148/137, 3-13=-372/181, 4-13=-9/335,

4-11=-203/194, 5-11=-3/326, 6-11=-377/177,

6-10=-144/142, 2-14=-487/1978,

7-10=-503/1980

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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 11-11-4, Exterior(2E) 11-11-4 to 17-6-12, Exterior(2R) 17-6-12 to 24-7-10, Interior (1) 24-7-10 to 30-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 and 9. 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



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

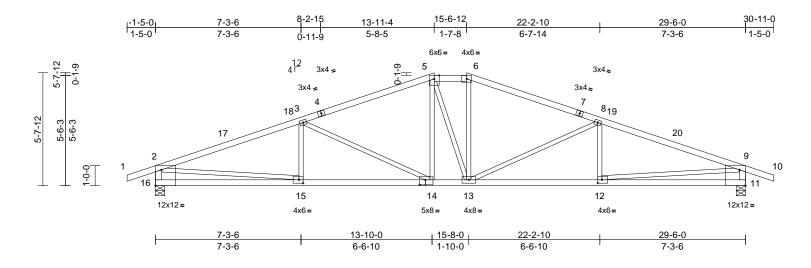
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	
Sunflower Modern	B06	Hip	1	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:55 ID:i3pSAVvquOafT2dwL75yK?zeC2x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.6

Plate Offsets (X, Y): [11:Edge,0-9-8], [12:0-2-8,0-2-0], [14:0-3-8,0-3-0], [15:0-2-8,0-2-0], [16:Edge,0-9-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.16	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.33	14-15	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 136 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 4-5,6-7:2x4 SP 1650F TOP CHORD

1.5E

BOT CHORD 2x4 SP No.2

2x3 SPF No.2 *Except* 16-2,11-9:2x4 SP **WEBS**

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-9-3 oc purlins, except end verticals, and

2-0-0 oc purlins (4-0-8 max.): 5-6. **BOT CHORD**

Rigid ceiling directly applied or 8-0-12 oc

bracing.

REACTIONS 11=0-5-8, 16=0-5-8 (size)

Max Horiz 16=68 (LC 12)

Max Uplift 11=-309 (LC 9), 16=-309 (LC 8) Max Grav 11=1424 (LC 1), 16=1424 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35 2-3=-2534/631 3-5=-1992/569

5-6=-1828/580, 6-8=-2005/566,

8-9=-2528/640. 9-10=0/35. 2-16=-1349/485.

9-11=-1346/483

BOT CHORD 15-16=-207/483, 13-15=-522/2322

12-13=-493/2317, 11-12=-140/488

WFBS 3-15=-49/177, 3-14=-616/189, 5-14=-57/306,

5-13=-186/258, 6-13=-59/363, 8-13=-598/197, 8-12=-63/154

2-15=-376/1849, 9-12=-384/1839

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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 13-11-4, Exterior(2E) 13-11-4 to 15-6-12, Exterior(2R) 15-6-12 to 22-7-10, Interior (1) 22-7-10 to 30-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16 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



June 26,2025

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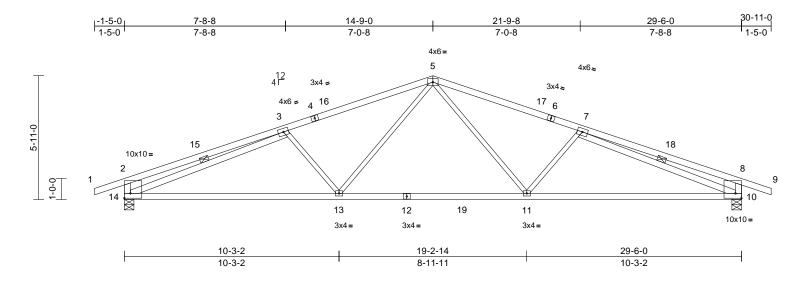
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	B07	Common	1	1	Job Reference (optional)	174482550

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:55 ID:6Gn1IGnNK1o3jpsI?c6SaCzeCHI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:55.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.40	11-13	>876	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.60	11-13	>586	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 138 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E **BOT CHORD** 2x4 SP 2400F 2.0E 2x3 SPF No.2 *Except* WEBS 14-2,14-3,10-8,10-7:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

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

bracing

WEBS 3-14, 7-10 1 Row at midpt

REACTIONS (size) 10=0-5-8, 14=0-5-8 Max Horiz 14=74 (LC 12)

Max Uplift 10=-303 (LC 9), 14=-303 (LC 8)

Max Grav 10=1461 (LC 2), 14=1460 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35, 2-3=-594/197, 3-5=-2464/568,

5-7=-2445/569, 7-8=-619/195, 8-9=0/35,

2-14=-532/321 8-10=-535/320 13-14=-504/2427, 11-13=-285/1808,

BOT CHORD 10-11=-474/2411

WEBS 5-11=-113/751, 7-11=-410/269,

5-13=-110/779, 3-13=-408/270, 3-14=-2102/457, 7-10=-2059/459

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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 14-9-0, Exterior(2R) 14-9-0 to 19-9-0, Interior (1) 19-9-0 to 30-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 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.

LOAD CASE(S) Standard



June 26,2025

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

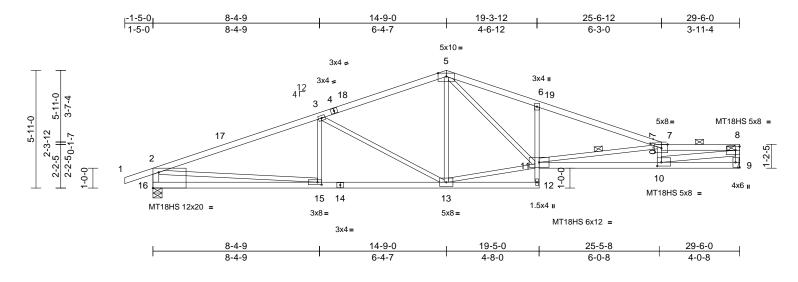
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	B08	Roof Special	1	1	Job Reference (optional)	174482551

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:55 ID:0mMEUz1XEfAcWAfckRIX3PzeC1V-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.9

Plate Offsets (X, Y): [7:0-3-12,Edge], [8:Edge,0-2-4], [9:Edge,0-2-8], [10:0-2-8,0-2-4], [15:0-2-8,0-1-8], [16:Edge,0-9-8]

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	0.88	Vert(LL)	-0.32	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.60	10-11	>583	180	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.10	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 136 lb	FT = 20%

LUMBER

2x4 SP 1650F 1.5E *Except* 7-8:2x4 SP TOP CHORD

No.2

BOT CHORD 2x4 SP No.2 *Except* 12-6:2x3 SPF No.2,

11-9:2x4 SP 2400F 2.0E

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

1650F 1.5F

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-3 oc purlins, except end verticals, and

2-0-0 oc purlins (2-4-7 max.): 7-8.

BOT CHORD Rigid ceiling directly applied or 7-10-5 oc

bracing.

WEBS 1 Row at midpt 7-11

REACTIONS (size) 9= Mechanical, 16=0-5-8 Max Horiz 16=109 (LC 12)

Max Uplift 9=-232 (LC 9), 16=-301 (LC 8)

Max Grav 9=1313 (LC 1), 16=1429 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/35, 2-3=-2497/567, 3-5=-1901/506,

5-6=-3059/818. 6-7=-3102/739.

7-8=-4509/1035, 8-9=-1207/324, 2-16=-1340/485

BOT CHORD

15-16=-316/699, 13-15=-552/2270, 12-13=-27/67, 11-12=0/76, 6-11=-419/234,

10-11=-1023/4399, 9-10=-73/205

WEBS 5-11=-414/1586, 8-10=-1012/4413,

2-15=-240/1577, 5-13=-44/181,

11-13=-364/1706, 3-13=-666/210,

3-15=-3/186, 7-10=-993/331, 7-11=-1524/357

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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 14-9-0, Exterior(2R) 14-9-0 to 19-9-0, Interior (1) 19-9-0 to 29-4-12 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- Bearings are assumed to be: Joint 16 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 232 lb uplift at ioint 9.
- 10) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16. This connection is for uplift only and does not consider lateral forces.
- 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



June 26,2025



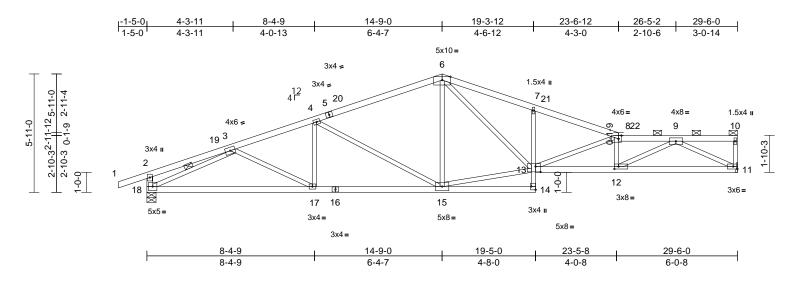
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	B09	Roof Special	1	1	Job Reference (optional)	174482552

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:55 ID:zEbiAutSIA?gvx?3q8?yu9zeC0P-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.5

Plate Offsets (X, Y): [8:0-1-12,0-2-0], [12:0-2-8,0-1-8], [13:0-3-0,0-3-4], [14:Edge,0-2-8]

Landing	(nof)	Cunnium	2.0.0	CCI		DEFL	:	(10.0)	ا/مامدا	L/d	PLATES	CDID
Loading	(psf)	Spacing	2-0-0	CSI		DELL	ın	(loc)	l/defl	L/a	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.24	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.42	12-13	>829	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.12	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 135 lb	FT = 20%

LUMBER

BOT CHORD

2x4 SP No.2 *Except* 5-6:2x4 SP 1650F TOP CHORD

1.5E

2x4 SP No.2 *Except* 14-7:2x3 SPF No.2,

13-11:2x4 SP 1650F 1.5E

WEBS 2x3 SPF No.2 *Except* 18-2:2x4 SP 2400F

2 0F

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-11-13 oc purlins, except end verticals, and

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

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

bracing.

WEBS 1 Row at midpt 3-18

REACTIONS (size) 11= Mechanical, 18=0-5-8

Max Horiz 18=112 (LC 12)

Max Uplift 11=-235 (LC 9), 18=-299 (LC 8)

Max Grav 11=1313 (LC 1), 18=1429 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD

1-2=0/35, 2-3=-343/68, 3-4=-2430/575,

4-6=-1903/508. 6-7=-3006/803.

7-8=-3025/742, 8-9=-3840/893, 9-10=-66/36,

10-11=-105/57, 2-18=-382/221

BOT CHORD 17-18=-625/2110, 15-17=-595/2269

14-15=-22/109, 13-14=0/77, 7-13=-314/186, 12-13=-919/3789, 11-12=-628/2226

WEBS 6-13=-396/1521, 8-13=-1027/227,

3-18=-2075/571, 6-15=-39/191,

13-15=-415/1666, 8-12=-748/241,

9-12=-346/1819, 9-11=-2460/681,

4-15=-663/207, 4-17=0/198, 3-17=0/208

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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 14-9-0, Exterior(2R) 14-9-0 to 19-9-0, Interior (1) 19-9-0 to 29-4-12 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom
- chord and any other members. Bearings are assumed to be: Joint 18 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 235 lb uplift at joint 11.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. 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

LOAD CASE(S) Standard



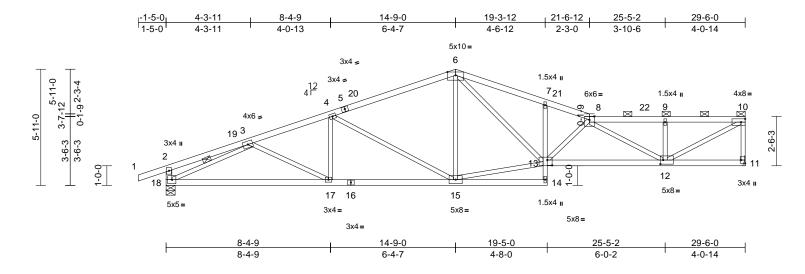
June 26,2025

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Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	B10	Roof Special	1	1	Job Reference (optional)	174482553

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:55 ID:OQRODo8J0QDn?4XEUhOZflzeC_m-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:58.7

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

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	0.72	Vert(LL)	-0.21	7-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.39	17-18	>896	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 137 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 5-6:2x4 SP 1650F TOP CHORD

1.5E

BOT CHORD 2x4 SP No 2 *Except* 14-7:2x3 SPF No 2

13-11:2x4 SP 1650F 1.5E

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-0-12 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-11 max.): 8-10.

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

bracing.

WFBS 1 Row at midpt 3-18

REACTIONS (size) 11= Mechanical, 18=0-5-8

Max Horiz 18=114 (LC 12)

Max Uplift 11=-240 (LC 9), 18=-296 (LC 8) Max Grav 11=1313 (LC 1), 18=1429 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/35, 2-3=-331/64, 3-4=-2430/575,

TOP CHORD 4-6=-1903/509, 6-7=-2994/794,

7-8=-3005/728. 8-9=-2087/494.

9-10=-2084/492. 10-11=-1277/361.

2-18=-376/221

BOT CHORD 17-18=-663/2111, 15-17=-631/2269 14-15=-34/93, 13-14=0/77, 7-13=-211/146,

12-13=-852/3260, 11-12=-41/51

WEBS 6-13=-384/1507, 8-13=-634/179

8-12=-1366/347, 10-12=-589/2360,

3-18=-2088/572, 6-15=-43/184, 13-15=-439/1685, 4-15=-663/207

4-17=0/198, 3-17=0/208, 9-12=-346/190

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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 14-9-0, Exterior(2R) 14-9-0 to 19-9-0, Interior (1) 19-9-0 to 29-4-12 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom
- chord and any other members. Bearings are assumed to be: Joint 18 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 240 lb uplift at joint 11.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. 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.
- 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



June 26,2025

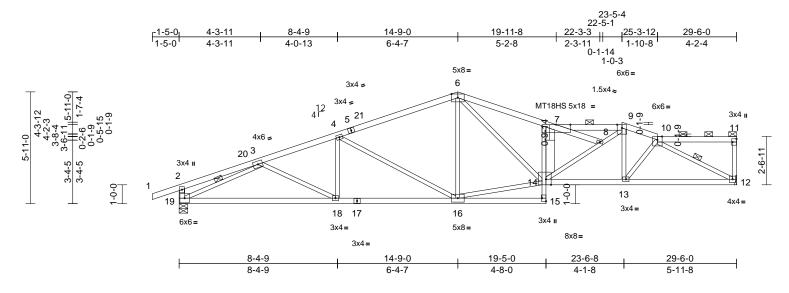
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	B11	Roof Special	1	1	Job Reference (optional)	174482554

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:55 ID:iOXb54ShLwyJaqMBN4r7alzeBz3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61

Plate Offsets (X, Y): [11:Edge,0-2-8], [14:0-3-4,Edge], [15: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	0.71	Vert(LL)	-0.19	14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.38	18-19	>914	180	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.11	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 146 lb	FT = 20%

LUMBER

BOT CHORD

2x4 SP No.2 *Except* 5-6:2x4 SP 1650F TOP CHORD

1.5E

2x4 SP No.2 *Except* 15-7:2x3 SPF No.2 2x3 SPF No.2 *Except* 19-2:2x4 SP No.2,

7-14:2x6 SPF No.2

BRACING

WEBS

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

2-0-0 oc purlins (3-2-11 max.): 7-8, 7-9,

10-11.

BOT CHORD Rigid ceiling directly applied or 6-10-5 oc

bracing.

WEBS 1 Row at midpt 10-12, 3-19

REACTIONS (size) 12= Mechanical, 19=0-5-8 Max Horiz 19=114 (LC 12)

Max Uplift 12=-242 (LC 9), 19=-296 (LC 8)

Max Grav 12=1310 (LC 1), 19=1427 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/35, 2-3=-331/66, 3-4=-2426/614,

4-6=-1899/554, 6-7=-2996/883. 7-8=-125/38.

7-9=-2904/800. 9-10=-2259/602.

10-11=-70/56, 11-12=-148/85, 2-19=-376/222

BOT CHORD 18-19=-682/2108, 16-18=-653/2265, 15-16=-43/215, 14-15=0/115,

7-14=-1288/466, 13-14=-594/2127,

12-13=-586/1974

6-14=-440/1463, 8-14=-318/1097, **WEBS**

8-9=-297/1027, 9-13=-83/82, 10-13=-9/249, 10-12=-2235/630, 3-19=-2085/605, 6-16=-12/220, 14-16=-453/1552,

4-16=-664/207, 4-18=0/200, 3-18=0/207

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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 14-9-0, Exterior(2E) 14-9-0 to 20-0-2, Interior (1) 20-0-2 to 23-5-4, Exterior(2E) 23-5-4 to 25-3-12, Interior (1) 25-3-12 to 29-4-12 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.
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 19 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 242 lb uplift at ioint 12
- 11) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 26,2025



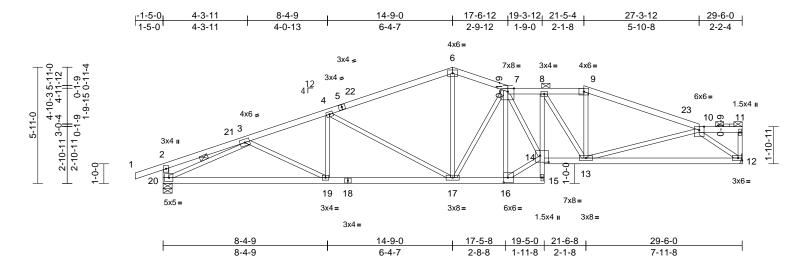
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	
Sunflower Modern	B12	Roof Special	1	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:56 ID:lr3Y21BRh8abt_5TG9kvU7zeBID-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:58.7

Plate Offsets (X, Y): [7:0-3-12,0-2-0], [14:0-5-4,0-4-0], [16:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.17	19-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.38	19-20	>929	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.11	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 142 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 5-6:2x4 SP 1650F

1.5E

BOT CHORD 2x4 SP No.2 *Except* 15-8:2x3 SPF No.2 WFBS 2x3 SPF No.2 *Except* 20-2:2x4 SP No.2

BRACING

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

(3-6-8 max.): 7-9. 10-11.

BOT CHORD Rigid ceiling directly applied or 6-11-13 oc

bracing.

WEBS 1 Row at midpt 3-20

REACTIONS (size) 12= Mechanical, 20=0-5-8

Max Horiz 20=112 (LC 12)

Max Uplift 12=-236 (LC 9), 20=-295 (LC 8) Max Grav 12=1313 (LC 1), 20=1429 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35, 2-3=-330/67, 3-4=-2431/596

4-6=-1900/529, 6-7=-1852/540, 7-8=-2550/714, 8-9=-2148/587,

9-10=-2350/582, 10-11=-66/20, 11-12=-37/19. 2-20=-376/222

BOT CHORD 19-20=-645/2111, 17-19=-618/2270,

16-17=-530/2004, 15-16=-17/102, 14-15=0/45, 8-14=-135/460,

13-14=-686/2557, 12-13=-476/1607 7-16=-1229/358, 14-16=-622/2304,

WEBS 7-14=-305/1130, 8-13=-761/258,

9-13=-43/444, 10-13=-71/574,

10-12=-1983/591, 3-20=-2089/587,

6-17=-173/832, 7-17=-566/185,

4-17=-664/205, 4-19=0/203, 3-19=0/210

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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 14-9-0, Exterior(2E) 14-9-0 to 17-6-12, Interior (1) 17-6-12 to 21-5-4, Exterior(2R) 21-5-4 to 26-5-4, Interior (1) 26-5-4 to 29-4-12 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 20 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 236 lb uplift at ioint 12.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20. 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.

LOAD CASE(S) Standard



June 26,2025

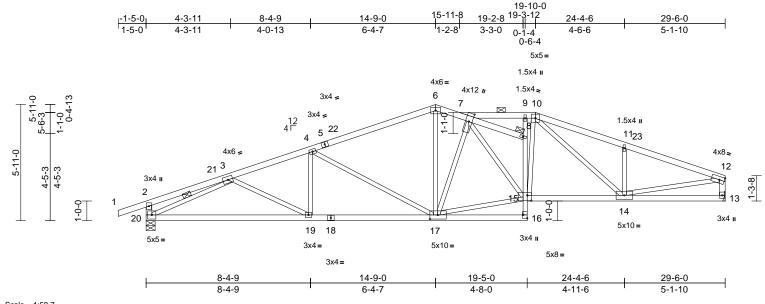
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	
Sunflower Modern	B13	Roof Special	1	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:56 ID:X0i77eWRoxR_4uVcjGjixKzeBjV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:58.7

Plate Offsets (X, Y): [[7:0-5-4,0-2-0], [15:0-2-8,0-3-4	4], [16:Edge,0-2-8], [17:0-4-12,0-2-8]
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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	0.70	Vert(LL)	-0.17	19-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.37	19-20	>941	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.09	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 149 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 5-6:2x4 SP 1650F TOP CHORD

1.5E

BOT CHORD 2x4 SP No.2 *Except* 16-9:2x3 SPF No.2 **WEBS** 2x3 SPF No.2 *Except* 20-2:2x4 SP 2400F

2.0E. 13-12:2x4 SP No.2

BRACING

WFBS

TOP CHORD Structural wood sheathing directly applied or

3-6-10 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-15 max.): 7-8, 7-10.

BOT CHORD Rigid ceiling directly applied or 7-3-9 oc

bracing.

1 Row at midpt 3-20

JOINTS 1 Brace at Jt(s): 8

REACTIONS (size) 13= Mechanical, 20=0-5-8

Max Horiz 20=110 (LC 12)

Max Uplift 13=-233 (LC 9), 20=-295 (LC 8)

Max Grav 13=1311 (LC 1), 20=1427 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35, 2-3=-342/71, 3-4=-2425/621,

4-6=-1900/545, 6-7=-1803/560, 7-8=-2/15, 7-9=-2061/625. 9-10=-2047/623. 10-11=-2228/683, 11-12=-2225/595

2-20=-381/221, 12-13=-1255/385 **BOT CHORD** 19-20=-603/2107, 17-19=-581/2265

16-17=-20/78, 15-16=0/79, 8-15=0/77, 8-9=-7/83, 14-15=-488/2000, 13-14=-71/150

WEBS 4-19=0/199, 11-14=-359/223,

3-20=-2073/575, 12-14=-480/1951,

6-17=-150/749, 4-17=-656/205, 3-19=0/208,

10-15=-89/386, 10-14=-98/188,

7-17=-800/236, 7-15=-62/210,

15-17=-483/1942

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 14-9-0, Exterior(2E) 14-9-0 to 16-4-3, Interior (1) 16-4-3 to 19-10-0, Exterior(2R) 19-10-0 to 24-10-0, Interior (1) 24-10-0 to 29-4-4 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 20 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 233 lb uplift at ioint 13.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20. 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.

LOAD CASE(S) Standard



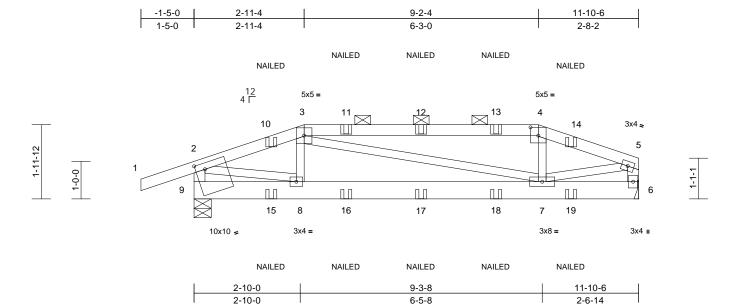
June 26,2025

🗥 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	
Sunflower Modern	C01	Hip Girder	1	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:56 ID:AeRCOyHWm1HSkpGoOHj2Loz7HuD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:30.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	0.02	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.05	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		, ,					Weight: 54 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 9-2,6-5:2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

BOT CHORD bracing.

REACTIONS (size) 6= Mechanical, 9=0-5-8

Max Horiz 9=32 (LC 32)

Max Uplift 6=-152 (LC 9), 9=-227 (LC 8)

Max Grav 6=552 (LC 1), 9=674 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD

1-2=0/35, 2-3=-836/449, 3-4=-755/468, 4-5=-804/439, 2-9=-631/443, 5-6=-509/292

BOT CHORD

8-9=-65/92, 7-8=-430/774, 6-7=-58/66 **WEBS** 3-8=-74/174, 3-7=-61/28, 4-7=-108/189,

2-8=-408/767, 5-7=-373/713

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) -1-5-0 to 2-11-4, Exterior(2R) 2-11-4 to 7-11-4, Interior (1) 7-11-4 to 9-2-4, Exterior(2E) 9-2-4 to 11-8-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 9 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 8) bearing plate capable of withstanding 152 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) 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
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 6-9=-20

Concentrated Loads (lb)

Vert: 11=-2 (F), 12=-2 (F), 13=-2 (F), 15=-32 (F), 16=-2 (F), 17=-2 (F), 18=-2 (F), 19=-32 (F)



June 26,2025

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

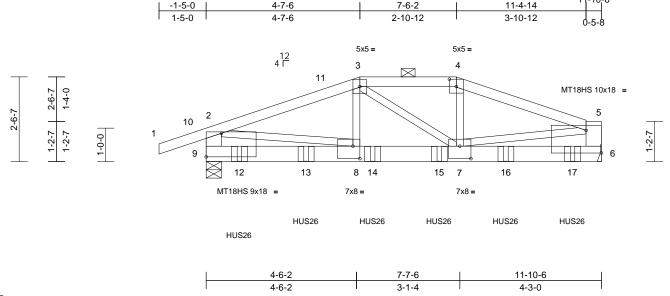


Qty Job Truss Truss Type Ply 174482558 C02 2 Sunflower Modern Roof Special Girder Job Reference (optional)

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

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:56 ID:RoDROLE8cpiSAiewuld1vzz7Hrh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.6

Plate Offsets (X, Y): [4:0-2-8,0-2-11], [5:Edge,0-8-2], [7:0-4-0,0-4-8], [8:0-2-8,0-4-8], [9:Edge,0-8-8]

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Loading	(psf)	Spacing	1-10-0	CSI		DEFL	ın	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.06	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.11	7-8	>999	180	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 111 lb	FT = 20%

LUMBER

BRACING

BOT CHORD

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

2x3 SPF No.2 *Except* 5-6,9-2:2x6 SPF WEBS

TOP CHORD Structural wood sheathing directly applied or

4-8-13 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-6 max.): 3-4.

Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size) 6= Mechanical, 9=0-5-8

Max Horiz 9=24 (LC 11)

Max Uplift 6=-839 (LC 9), 9=-896 (LC 8)

Max Grav 6=4394 (LC 1), 9=4423 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/33, 2-3=-5845/1386, 3-4=-5240/1297,

4-5=-5659/1340, 5-6=-2729/728,

2-9=-2768/837 **BOT CHORD**

8-9=-480/1654, 7-8=-1262/5393, 6-7=-329/1284

WEBS 3-8=-307/1803. 3-7=-258/65. 4-7=-286/1640.

2-8=-843/3876, 5-7=-921/4107

NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 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
- 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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 4-7-6, Exterior(2E) 4-7-6 to 11-7-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 9 SPF No.2 crushing capacity of 425 psi.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 839 lb uplift at joint 6.
- 12) Two H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9. This connection is for uplift only and does not consider lateral forces.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-0-0 from the left end to 11-0-0 to connect truss(es) to back face of bottom chord

16) Fill all nail holes where hanger is in contact with lumber. LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-64, 2-3=-64, 3-4=-64, 4-5=-64, 6-9=-18 Concentrated Loads (lb)

Vert: 12=-1297 (B), 13=-1295 (B), 14=-1295 (B),

15=-1292 (B), 16=-1295 (B), 17=-1296 (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

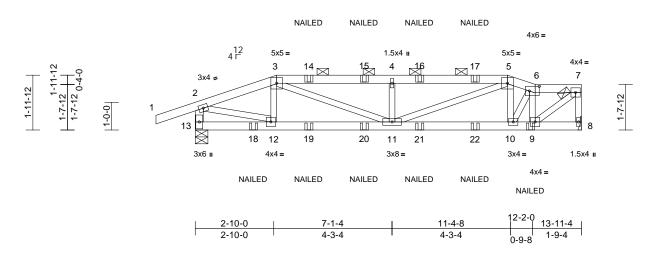


Job	Truss	Truss Type	Qty	Ply	
Sunflower Modern	C03	Roof Special Girder	1	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:56 ID:JltgWHgfhNn71UYudwH0V2z7HsQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:41.6

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

-		_										
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	0.29	Vert(LL)	0.05	11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.08	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.32	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 62 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-14 oc purlins, except end verticals, and

2-0-0 oc purlins (4-8-0 max.): 3-5, 6-7.

BOT CHORD Rigid ceiling directly applied or 8-3-15 oc

bracing.

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

Max Horiz 13=67 (LC 9)

Max Uplift 8=-219 (LC 9), 13=-289 (LC 8)

Max Grav 8=702 (LC 1), 13=820 (LC 1)

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

Tension

TOP CHORD 1-2=0/35, 2-3=-998/516, 3-4=-1416/753, 4-5=-1416/753, 5-6=-926/461, 6-7=-746/383,

7-8=-662/363 2-13=-774/507

BOT CHORD 12-13=-144/119, 11-12=-503/918,

10-11=-490/896, 9-10=-387/701, 8-9=-31/34

3-12=-106/128, 5-10=-161/141, 6-10=-169/351, 6-9=-585/300, 7-9=-489/932,

2-12=-452/904, 5-11=-316/592,

4-11=-321/249, 3-11=-275/566

NOTES

WEBS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-5-0 to 2-11-4, Exterior(2R) 2-11-4 to 7-11-4, Interior (1) 7-11-4 to 11-3-4, Exterior(2E) 11-3-4 to 12-3-4, Interior (1) 12-3-4 to 13-10-0 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

- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 13 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 219 lb uplift at
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. 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) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70, 8-13=-20

Concentrated Loads (lb)

Vert: 9=-74 (B), 18=-74 (B), 19=-8 (B), 20=-8 (B),

21=-8 (B), 22=-8 (B)



June 26,2025

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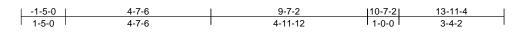
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

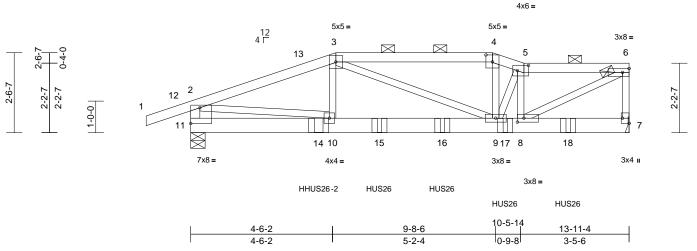


Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	C04	Roof Special Girder	1	2	Job Reference (optional)	174482560

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:57 ID:hcNYYaARUTPXvY1iuzV5XCz7HaU-RfC?PsB70Ha3NSaPanL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:36.6

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

Loading	(psf)	Spacing	1-10-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.07	9-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.12	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 133 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 11-2:2x4 SP No.2 WEBS

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

REACTIONS (size) 7= Mechanical, 11=0-5-8

Max Horiz 11=83 (LC 9)

Max Uplift 7=-481 (LC 9), 11=-470 (LC 8)

Max Grav 7=2056 (LC 1), 11=1819 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/32, 2-3=-3370/1048, 3-4=-3244/1011, TOP CHORD

4-5=-3435/1039, 5-6=-3086/935,

6-7=-1782/600, 2-11=-1738/687

10-11=-358/488, 9-10=-1059/3106,

8-9=-946/2990, 7-8=-49/66 WEBS

3-10=-145/750, 3-9=-39/229, 4-9=-167/786, 5-9=-211/728. 5-8=-1693/568.

6-8=-1059/3442, 2-10=-754/2684

NOTES

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 oc, 2x3 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
- Web connected as follows: 2x3 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; 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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 4-7-6, Exterior(2E) 4-7-6 to 10-7-2, Interior (1) 10-7-2 to 13-10-0 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 11 SPF No.2 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 481 lb uplift at ioint 7.
- 11) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 4-0-13 from the left end to connect truss(es) to front face of bottom chord.

- 15) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 6-0-0 from the left end to 12-0-0 to connect truss(es) to front face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber. LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-64, 2-3=-64, 3-4=-64, 4-5=-64, 5-6=-64, 7-11=-18

Concentrated Loads (lb)

Vert: 14=-604 (F), 15=-483 (F), 16=-526 (F), 17=-534

(F), 18=-497 (F)



June 26,2025

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 174482561 CJ₁ Jack-Open 3 1 Sunflower Modern Job Reference (optional)

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

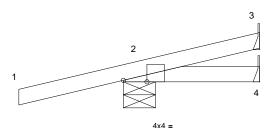
Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:57 ID:arBBSFclbmGJfU5Z_G5kznzeD92-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

-2-0-1	2-7-6
2-0-1	2-7-6

2.83 T







2-7-6

Scale = 1:22.1

Plate Offsets (X, Y): [2:0-5-7,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	0.62	Vert(LL)	0.00	2-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	2-4	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-7-6 oc purlins.

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

bracing.

REACTIONS (size)

2=0-7-6, 3= Mechanical, 4= Mechanical

Max Horiz 2=53 (LC 8)

Max Uplift 2=-182 (LC 8), 3=-8 (LC 13)

Max Grav 2=346 (LC 1), 3=18 (LC 8), 4=45 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-3=-44/17

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 Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 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 8 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.

LOAD CASE(S) Standard



June 26,2025

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

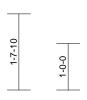


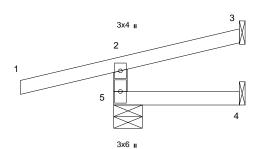
Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	CJ02	Jack-Open	2	1	Job Reference (optional)	174482562

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:57 ID:B20vsS3NPLsGVEHwG3RjVOzeDLN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



2.83 T







Scale = 1:24.8

2-8-7	ĺ
	1

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	0.00	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals. **BOT CHORD**

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

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-7-6

Max Horiz 5=44 (LC 9)

Max Uplift 3=-27 (LC 12), 5=-152 (LC 8)

3=40 (LC 1), 4=41 (LC 3), 5=328 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-285/420, 1-2=0/35, 2-3=-31/14

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 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 27 lb uplift at joint
- 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.
- This truss 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



June 26,2025



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		
Sunflower Modern	CJ03	Jack-Open	2	1	Job Reference (optional)	174482563

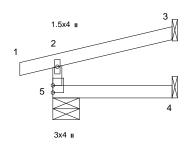
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2.83 □







2-9-2



Scale = 1:26.7

'								
I		DEFL	in	(loc)	l/defl	L/d	PLATES	
	0.17	Vert(LL)	0.00	4-5	>999	240	MT20	
	0.00	\/ort(CT)	0.00	15	× 000	180		

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	0.17	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	0.00	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 10 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-9-2 oc purlins, except end verticals.

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

bracing.

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

5=0-7-6 Max Horiz 5=38 (LC 9)

Max Uplift 3=-42 (LC 12), 5=-61 (LC 8)

3=79 (LC 1), 4=50 (LC 3), 5=188 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-163/216, 1-2=0/14, 2-3=-32/15

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint
- 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.
- This truss 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



June 26,2025

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



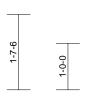
Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	CJ04	Jack-Open	3	1	Job Reference (optional)	174482564

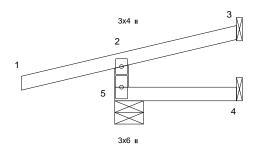
Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:57 ID:wvI4XGEnRkvU_zOfJK2?MkzeDAq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:24.7

ĺ	2-7-6	

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	0.54	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	0.00	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-7-6 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-7-6

Max Horiz 5=44 (LC 9)

Max Uplift 3=-25 (LC 12), 5=-153 (LC 8)

3=35 (LC 1), 4=39 (LC 3), 5=326 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-284/419, 1-2=0/35, 2-3=-31/14

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint
- 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.
- This truss 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



June 26,2025



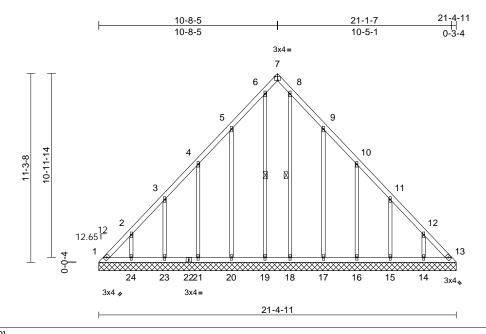
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	HG1	Lay-In Gable	1	1	Job Reference (optional)	174482565

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:57 ID:4aaBILsmFzqQEJMVaBas7szeC6t-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:68.9

Plate Offsets (X, Y): [7:Edge,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	0.14	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	NO	WB	0.32	Horiz(TL)	0.01	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 123 lb	FT = 20%

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

BRACING TOP CHORD

WEBS

Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing. 1 Row at midpt

REACTIONS (size) 1=21-4-11, 13=21-4-11,

14=21-4-11, 15=21-4-11, 16=21-4-11, 17=21-4-11, 18=21-4-11, 19=21-4-11, 20=21-4-11, 21=21-4-11,

6-19, 8-18

23=21-4-11, 24=21-4-11

Max Horiz 1=310 (LC 9)

Max Uplift 1=-146 (LC 10), 13=-109 (LC 11), 14=-137 (LC 13), 15=-137 (LC 13),

16=-134 (LC 13), 17=-162 (LC 13), 19=-17 (LC 9), 20=-159 (LC 12), 21=-133 (LC 12), 23=-137 (LC 12),

24=-137 (LC 12)

Max Grav 1=344 (LC 12), 13=319 (LC 13), 14=208 (LC 20), 15=207 (LC 20),

16=205 (LC 20), 17=219 (LC 20), 18=137 (LC 21), 19=160 (LC 19), 20=213 (LC 19), 21=207 (LC 19),

23=206 (LC 19), 24=207 (LC 19) FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=-491/328, 2-3=-365/228, 3-4=-230/164, 4-5=-144/115, 5-6=-130/150, 6-7=-101/96, 7-8=-101/93, 8-9=-130/118, 9-10=-106/64,

10-11=-197/123, 11-12=-332/228, 12-13=-457/328

BOT CHORD 1-24=-240/342, 23-24=-240/342, 21-23=-240/342, 20-21=-240/342,

19-20=-240/342, 18-19=-240/342, 17-18=-240/342, 16-17=-240/342, 15-16=-240/342, 14-15=-240/342,

13-14=-240/342 WFBS

2-24=-178/154, 3-23=-185/162, 4-21=-180/157, 5-20=-207/183, 6-19=-125/38, 8-18=-103/0, 9-17=-207/187,

10-16=-180/157, 11-15=-185/162,

12-14=-178/154

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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 10-8-9, Exterior(2R) 10-8-9 to 15-5-9, Interior (1) 15-5-9 to 21-1-1 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. 6)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 1, 109 lb uplift at joint 13, 137 lb uplift at joint 24, 137 lb uplift at joint 23, 133 lb uplift at joint 21, 159 lb uplift at joint 20, 17 lb uplift at joint 19, 162 lb uplift at joint 17, 134 lb uplift at joint 16, 137 lb uplift at joint 15 and 137 lb uplift at joint 14.
- 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.

LOAD CASE(S) Standard



June 26,2025

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

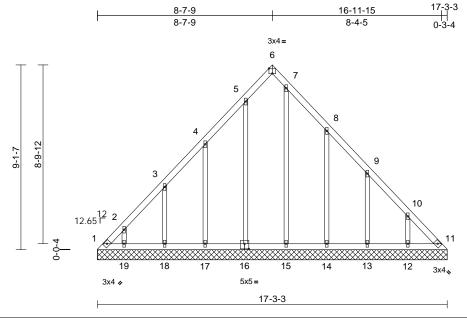
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	
Sunflower Modern	HG2	Lay-In Gable	1	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:57 $ID:gPh1qn6EiV4GvAb_S_4fH9zeBhR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$

Page: 1



Scale = 1:56.9

Plate Offsets (X, Y): [6:Edge,0-3-0], [16:0-2-8,0-3-0]

Laadiaa	(n of)	Cunnium	2.0.0	CSI		DEFL		(100)	l/defl	1 /4	PLATES	CDID
Loading	(psf)	Spacing	2-0-0	CSI		DELL	in	(loc)	ı/aeıi	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.20	Horiz(TL)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 90 lb	FT = 20%

LUMBER

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

BRACING

FORCES

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size)

1=17-3-3, 11=17-3-3, 12=17-3-3, 13=17-3-3, 14=17-3-3, 15=17-3-3, 16=17-3-3, 17=17-3-3, 18=17-3-3,

19=17-3-3

Max Horiz 1=248 (LC 9)

Max Uplift 1=-127 (LC 10), 11=-85 (LC 11), 12=-138 (LC 13), 13=-132 (LC 13),

14=-164 (LC 13), 16=-74 (LC 12), 17=-150 (LC 12), 18=-137 (LC 12),

19=-117 (LC 12)

Max Grav

1=306 (LC 12), 11=271 (LC 13), 12=208 (LC 20), 13=205 (LC 20), 14=216 (LC 20), 15=147 (LC 1), 16=181 (LC 19), 17=215 (LC 19),

18=210 (LC 19), 19=177 (LC 19)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-427/305, 2-3=-321/219, 3-4=-187/115,

4-5=-118/67, 5-6=-89/75, 6-7=-70/54, 7-8=-93/66, 8-9=-139/80, 9-10=-264/182,

10-11=-391/286

BOT CHORD 1-19=-213/296, 18-19=-213/296

17-18=-213/296, 15-17=-213/296, 14-15=-212/296, 13-14=-212/296, 12-13=-212/296, 11-12=-212/296

WEBS 2-19=-158/134, 3-18=-190/162, 4-17=-207/177, 5-16=-149/93, 7-15=-101/6,

8-14=-213/187, 9-13=-185/157,

10-12=-184/155

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-1 to 5-4-1, Interior (1) 5-4-1 to 8-7-13, Exterior(2R) 8-7-13 to 13-7-13, Interior (1) 13-7-13 to 16-11-9 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 6) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 7) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be 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.

LOAD CASE(S) Standard



June 26,2025

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

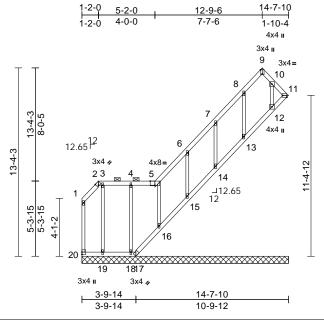
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	HG3	Lay-In Gable	1	1	Job Reference (optional)	4482567

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Page: 1



Scale = 1:81.7

Plate Offsets (X, Y): [2:0-1-7,Edge], [5:0-4-0,Edge], [9:Edge,0-1-8], [11:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.16	Horiz(TL)	-0.02	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 82 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.): 2-5.

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

bracing.

REACTIONS All bearings 14-7-10.

(lb) - Max Horiz 20=321 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s)

18, 19, 20 except 11=-848 (LC 12), 12=-348 (LC 10), 14=-202 (LC 12), 15=-136 (LC 12), 16=-143 (LC 12),

17=-223 (LC 10)

Max Grav All reactions 250 (lb) or less at joint

(s) 13, 14, 15, 16, 18, 19, 20 except 11=549 (LC 10), 12=671 (LC 12),

17=343 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 6-7=-312/338, 7-8=-469/513, 8-9=-389/417,

10-11=-640/713

19-20=-367/336, 18-19=-367/336,

17-18=-367/336, 16-17=-546/510, 15-16=-510/467, 14-15=-509/466

13-14=-509/465, 12-13=-512/466,

11-12=-486/436

WEBS 5-16=-266/234, 7-14=-257/224,

10-12=-782/651

NOTES

BOT CHORD

1) 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) 0-1-4 to 5-2-0, Interior (1) 5-2-0 to 12-9-6, Exterior(2E) 12-9-6 to 14-5-3 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 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 19, 18 except (jt=lb) 11=848, 17=223, 16=142, 15=135, 14=201, 12=347.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 11, 16, 15, 14, 13, 12.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) 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



June 26,2025

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		
Sunflower Modern	HG4	Lay-In Gable	1	1	Job Reference (optional)	174482568

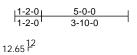
3x4 A

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

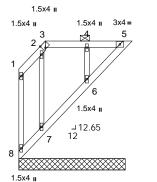
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5-2-6

Page: 1







0-0-14 5-0-0 4-11-2 0-0-14

Scale = 1:50.9

Plate Offsets (X, Y): [3:0-1-7,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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.05	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 26 lb	FT = 20%

1.5x4 u

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

5-0-0 oc purlins, except end verticals, and

2-0-0 oc purlins: 3-5.

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

bracing.

REACTIONS (size) 5=4-8-6, 6=4-8-6, 7=4-8-6, 8=4-8-6

Max Horiz 8=-129 (LC 10)

Max Uplift 5=-89 (LC 9), 6=-50 (LC 8), 7=-27

(LC 8)

5=93 (LC 19), 6=194 (LC 1), 7=137

(LC 1), 8=26 (LC 21) (lb) - Maximum Compression/Maximum

Tension

1-8=-154/157, 1-2=-162/177, 2-3=-119/106,

TOP CHORD 3-4=-122/133, 4-5=-122/133

BOT CHORD 7-8=-223/215, 6-7=-197/191, 5-6=-200/183

WFBS 4-6=-150/72, 2-7=-154/101

NOTES

FORCES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Bearing at joint(s) 8, 5, 6, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 5, 50 lb uplift at joint 6 and 27 lb uplift at joint 7.
- 12) N/A
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) 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



June 26,2025

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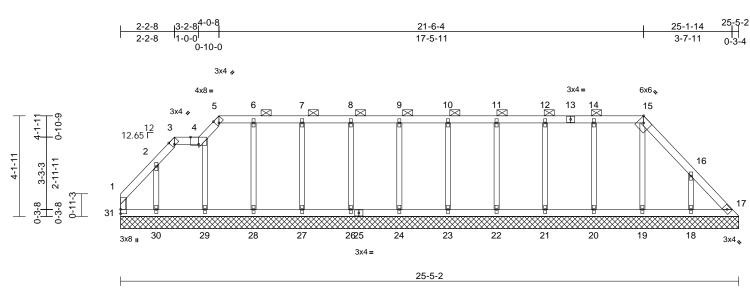
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	
Sunflower Modern	HG5	Lay-In Gable	1	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:58 ID:cCM_nrH3wHlFpx?tT_fVjZyXoyz-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:47.4

Plate Offsets (X, Y): [3:0-1-7,Edge], [4:0-4-0,Edge], [5:0-1-7,Edge], [15:0-2-9,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.06	Horiz(TL)	0.00	17	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 112 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.): 3-4, 5-15.

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

REACTIONS (size)

17=25-5-2, 18=25-5-2, 19=25-5-2, 20=25-5-2, 21=25-5-2, 22=25-5-2, 23=25-5-2, 24=25-5-2, 26=25-5-2, 27=25-5-2, 28=25-5-2, 29=25-5-2, 30=25-5-2, 31=25-5-2

Max Horiz 31=-121 (LC 8)

Max Uplift 17=-35 (LC 9), 18=-148 (LC 13), 19=-25 (LC 8), 20=-48 (LC 9), 21=-41 (LC 8), 22=-36 (LC 9), 23=-40 (LC 8), 24=-39 (LC 9), 26=-40 (LC 8), 27=-41 (LC 9),

28=-33 (LC 8), 29=-26 (LC 12) 30=-111 (LC 12), 31=-34 (LC 8) Max Grav

17=100 (LC 19), 18=219 (LC 20), 19=145 (LC 26), 20=199 (LC 25), 21=183 (LC 1), 22=173 (LC 25), 23=181 (LC 1), 24=180 (LC 26), 26=179 (LC 25), 27=179 (LC 26),

28=192 (LC 25), 29=172 (LC 25), 30=160 (LC 19), 31=103 (LC 20)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-31=-80/28, 1-2=-91/52, 2-3=-85/64, 3-4=-66/58, 4-5=-98/82, 5-6=-87/87,

6-7=-87/87, 7-8=-87/87, 8-9=-87/87, 9-10=-87/87, 10-11=-87/87, 11-12=-87/87 12-14=-87/87, 14-15=-87/87, 15-16=-97/90,

16-17=-101/94

30-31=-66/94, 29-30=-66/94, 28-29=-66/96, 27-28=-66/96, 26-27=-66/96, 24-26=-66/96, 23-24=-66/96, 22-23=-66/96, 21-22=-66/96, 20-21=-66/96, 19-20=-66/96, 18-19=-66/96

17-18=-66/96

2-30=-115/113, 4-29=-131/54, 6-28=-152/57, 7-27=-138/66, 8-26=-141/63, 9-24=-140/63, 10-23=-142/64, 11-22=-133/60, 12-21=-143/65, 14-20=-159/72

15-19=-106/50, 16-18=-186/166

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) 0-1-4 to 3-2-8, Interior (1) 3-2-8 to 4-0-8, Exterior(2R) 4-0-8 to 9-0-8, Interior (1) 9-0-8 to 21-6-4, Exterior(2E) 21-6-4 to 25-1-5 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 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. 6)
- Gable requires continuous bottom chord bearing. 7) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 11) N/A
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 26,2025

FORCES

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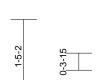
Job Truss Truss Type Qty Ply 174482570 J01 Jack-Open 1 Sunflower Modern 1 Job Reference (optional)

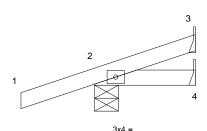
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-1-5-0	1-11-4
1-5-0	1-11-4







Page: 1

1-11-4

Scale = 1:22.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.20	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	NO	WB	0.00	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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-11-4 oc purlins.

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

bracing.

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

Mechanical

Max Horiz 2=55 (LC 8)

Max Uplift 2=-110 (LC 8), 3=-19 (LC 12) Max Grav 2=227 (LC 1), 3=26 (LC 1), 4=38

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-3=-35/17

BOT CHORD 2-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) 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 DOI = 1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 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 19 lb uplift at joint

- 7) 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



June 26,2025



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Job Truss Truss Type Qty 174482571 J02 Jack-Open 1 Sunflower Modern Job Reference (optional)

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

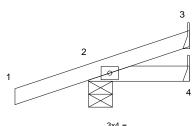
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Page: 1

-1-5-0	1-11-4
1-5-0	1-11-4









1-11-4

Scale = 1:22.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.20	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	NO	WB	0.00	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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-11-4 oc purlins.

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

bracing.

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

Mechanical Max Horiz 2=55 (LC 8)

Max Uplift 2=-110 (LC 8), 3=-19 (LC 12) Max Grav 2=227 (LC 1), 3=26 (LC 1), 4=38

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-3=-35/17

BOT CHORD 2-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) 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 DOI = 1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 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 19 lb uplift at joint

- 7) 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



June 26,2025



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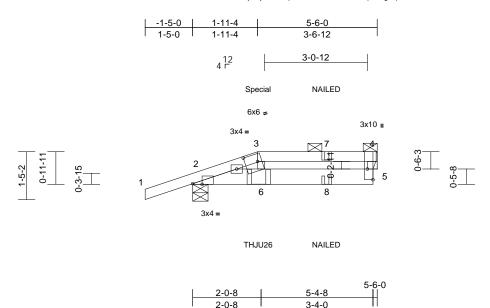


Qty Job Truss Truss Type 174482572 J03 Half Hip Girder 1 Sunflower Modern Job Reference (optional)

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

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Scale = 1:34.3

Plate Offsets (X, Y): [2:0-3-6,Edge], [3:0-4-8,0-2-12], [4:Edge,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	0.26	Vert(LL)	-0.01	6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 21 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-6-0 oc purlins, except end verticals, and

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

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

bracing.

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

Max Horiz 2=43 (LC 8)

Max Uplift 2=-115 (LC 8), 5=-35 (LC 9)

Max Grav 2=347 (LC 1), 5=205 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/35, 2-3=-218/55, 3-4=-174/61,

4-5=-130/145 BOT CHORD 2-6=-93/185, 5-6=-78/173

WEBS 3-6=-69/87

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 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 35 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 THJU26 (SGL & SGL SHORT RC 1-PLY) or equivalent at 1-11-10 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 165 lb down and 104 lb up at 1-11-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) 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=30 (B), 6=-2 (B), 8=-2 (B)

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June 26,2025

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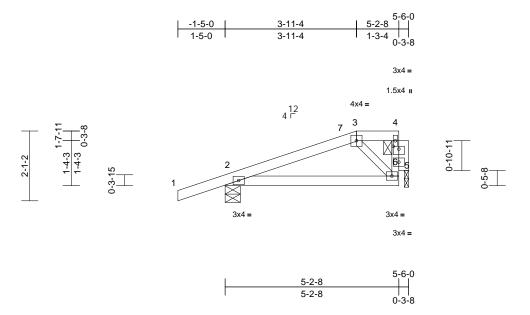
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MILES REFLECTION TO SERVICE AND ADDRESS OF THIS AND INCLUDED MILES REFLECTION TO SERVICE AND ADDRESS OF THIS DESIGN VALIDATION OF THIS DESIGN VALIDATION OF THE PROPERTY OF THE PROPERT besign value for see only with recks confined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



Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	J04	Half Hip	1	1	Job Reference (optional)	174482573

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Page: 1



Scale = 1:34.5

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

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	0.26	Vert(LL)	-0.03	2-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.07	2-5	>863	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 22 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**

BRACING

Structural wood sheathing directly applied or TOP CHORD

5-6-0 oc purlins, except end verticals, and

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

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

bracing.

REACTIONS (size) 2=0-5-8, 6=0-1-8

Max Horiz 2=75 (LC 9)

Max Uplift 2=-134 (LC 8), 6=-38 (LC 8)

Max Grav 2=354 (LC 1), 6=200 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-3=-155/104, 3-4=-37/44,

5-6=-96/148, 4-6=-52/65

BOT CHORD 2-5=-136/114 **WEBS** 3-5=-131/165

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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 3-11-4, Exterior(2E) 3-11-4 to 5-1-4 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 arip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- One 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 bottom chord.

LOAD CASE(S) Standard



June 26,2025

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



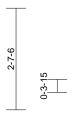
Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	J05	Monopitch	4	1	Job Reference (optional)	174482574

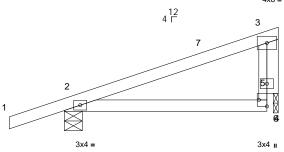
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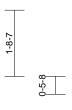
3x4 =

Page: 1









5-2-8 5-2-8 0-3-8

Scale = 1:29.6

Plate Offsets (X, Y): [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	0.33	Vert(LL)	-0.02	2-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.03	2-4	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 22 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 2=0-5-8, 6=0-1-8

Max Horiz 2=94 (LC 8)

Max Uplift 2=-128 (LC 8), 6=-50 (LC 12) Max Grav 2=367 (LC 1), 6=187 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-3=-204/52, 4-5=0/103,

3-5=-92/222 BOT CHORD 2-4=-105/146 WEBS 3-6=-120/0

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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 5-1-4 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.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- One 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.

LOAD CASE(S) Standard



June 26,2025

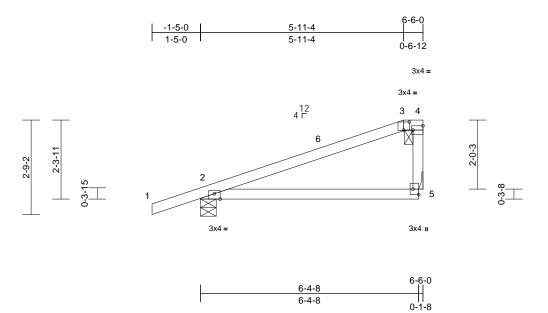
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	
Sunflower Modern	J06	Half Hip	1	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:58 ID:AGPIPC0cLf16q6AOM9Wp4vzeCNT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:33.7

Plate Offsets (X, Y): [2:0-2-0,Edge], [3:0-2-0,0-2-13], [4:Edge,0-1-8], [5:Edge,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	0.58	Vert(LL)	-0.05	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.11	2-5	>692	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-R							Weight: 25 lb	FT = 20%

LUMBER

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

BRACING

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

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

BOT CHORD Rigid ceilir bracing.

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

Max Horiz 2=106 (LC 9)

Max Uplift 2=-140 (LC 8), 5=-56 (LC 8) Max Grav 2=406 (LC 1), 5=260 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-3=-174/58, 3-4=-118/113, 4-5=-183/231

2-5=-113/121

NOTES

BOT CHORD

- 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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 5-11-4, Exterior(2E) 5-11-4 to 6-4-4 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
- 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.
 * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 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 140 lb uplift at joint 2 and 56 lb uplift at joint 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 26,2025

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

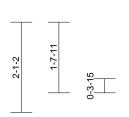


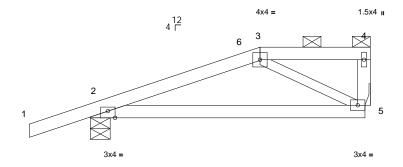
Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	J07	Half Hip	1	1	Job Reference (optional)	32576

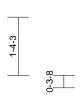
Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:59 ID:T4HVkzhgiNdx5ycCH_XUUCzeCNu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1









6-4-8	6-6-0
6-4-8	0-1-8

Scale = 1:26.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
Loading	(psi)	Spacing	2-0-0	COI		DEFL	ın	(IUC)	i/ueii	L/u	FLAILS	GKIF
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.08	2-5	>871	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.17	2-5	>435	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

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

bracing.

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

Max Horiz 2=75 (LC 9)

Max Uplift 2=-144 (LC 8), 5=-52 (LC 8) Max Grav 2=406 (LC 1), 5=260 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-3=-271/233, 3-4=-28/30,

4-5=-85/97 BOT CHORD 2-5=-275/205 WEBS 3-5=-235/292

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) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 3-11-4, Exterior(2E) 3-11-4 to 6-4-4 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
- 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Bearings are assumed to be: Joint 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 144 lb uplift at joint 2 and 52 lb uplift at joint 5.
- This truss is designed in accordance with the 2018
 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 26,2025

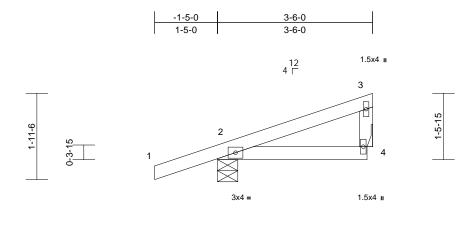
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

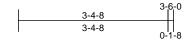


Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	J08	Jack-Closed	4	1	Job Reference (optional)	174482577

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:59

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Scale = 1:26

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.01	2-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	2-4	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

2=0-5-8, 4= Mechanical

Max Horiz 2=65 (LC 9)

Max Uplift 2=-124 (LC 8), 4=-23 (LC 12) Max Grav 2=286 (LC 1), 4=110 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/30, 2-3=-70/48, 3-4=-95/122

BOT CHORD 2-4=-24/26

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 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 23 lb uplift at joint

- 7) 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



June 26,2025

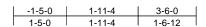
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



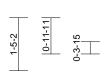
Job	Truss	Truss Type	Qty	Ply	_	
Sunflower Modern	J10	Half Hip Girder	1	1	Job Reference (optional)	4482578

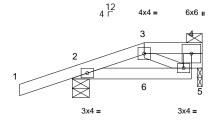
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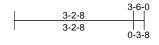
Special







Special



Scale = 1:31

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	0.25	Vert(LL)	-0.01	2-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	2-5	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-6-0 oc purlins, except end verticals, and

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

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

bracing.

REACTIONS (size) 2=0-5-8, 5=0-1-8 Max Horiz 2=43 (LC 9)

Max Uplift 2=-112 (LC 8), 5=-5 (LC 9)

Max Grav 2=271 (LC 1), 5=93 (LC 21) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/30, 2-3=-119/54, 3-4=-16/18,

4-5=-45/55

BOT CHORD 2-5=-53/133

WEBS 3-5=-136/63

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
- Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi

- 6) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 160 Ib down and 99 lb up at 1-11-4 on top chord, and 15 lb down at 1-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

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

Concentrated Loads (lb)

Vert: 3=28 (F), 6=-2 (F)



June 26,2025

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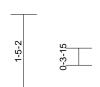
JobTrussTruss TypeQtyPlySunflower ModernJ11Jack-Open11

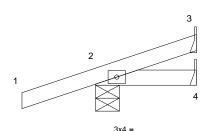
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:59 ID:BOeiL02QvhNHe5qbL2AqSRzeCTt-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

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-1-5-0	1-11-4
1-5-0	1-11-4







Page: 1

1-11-4

Scale = 1:22.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.20	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	NO	WB	0.00	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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-11-4 oc purlins.

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

bracing.

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

Mechanical

Max Horiz 2=55 (LC 8)

 $\begin{array}{ll} \text{Max Uplift} & \text{2=-110 (LC 8), 3=-19 (LC 12)} \\ \text{Max Grav} & \text{2=227 (LC 1), 3=26 (LC 1), 4=38} \\ \end{array}$

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-3=-35/17

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.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 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



June 26,2025

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		
Sunflower Modern	J13	Half Hip Girder	3	1	Job Reference (optional)	174482580

1-5-0

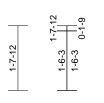
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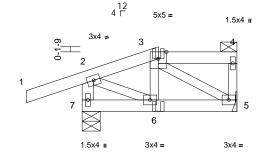
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-1-5-0	1-11-4	3-11-4	1

1-11-4 2-0-0

NAILED







Page: 1

NAII FD

1-10-0	3-11-4
1-10-0	2-1-4

Scale = 1:29.3

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	0.24	Vert(LL)	0.00	6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 20%

LUMBER

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

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

BRACING

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

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

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

bracing.

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

Max Horiz 7=65 (LC 9)

Max Uplift 5=-37 (LC 9), 7=-120 (LC 8)

Max Grav 5=137 (LC 1), 7=292 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/35, 2-3=-113/88, 3-4=-27/31,

4-5=-66/82, 2-7=-278/314

BOT CHORD 6-7=-138/57, 5-6=-109/109 **WEBS** 2-6=0/95, 3-6=-5/51, 3-5=-108/110

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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Bearings are assumed to be: Joint 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 37 lb uplift at joint
- 9) 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.
- 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 6=12 (B)



June 26,2025



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

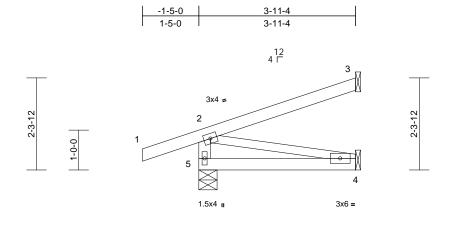
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

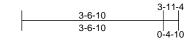


Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	J14	Jack-Open	25	1	Job Reference (optional)	174482581

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:59 ID:08UIE?szVW7IOM5uY1Wz8QzeDBI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:28.9

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	0.24	Vert(LL)	-0.01	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.02	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 18 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 3-11-4 oc purlins, except end verticals.

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

bracing.

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

5=0-5-8 Max Horiz 5=71 (LC 8)

Max Uplift 3=-58 (LC 12), 5=-101 (LC 8)

Max Grav 3=108 (LC 1), 4=76 (LC 3), 5=301

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-263/291, 1-2=0/35, 2-3=-59/30

BOT CHORD 4-5=-172/41 WEBS 2-4=-42/176

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint
- 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.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 26,2025

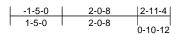




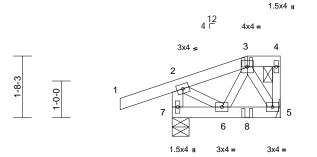
Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	J15	Half Hip Girder	2	1	Job Reference (optional)	174482582

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Jun 25 15:39:59 ID:4I6ZUiA1?jQpVvEEz8BR_izeDQO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



NAILED



NAILED

1-5-10	2-11-4
1-5-10	1-5-10

Scale = 1:31.3

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	0.24	Vert(LL)	0.00	6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals, and

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

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

bracing.

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

Max Horiz 7=73 (LC 11)

Max Uplift 5=-41 (LC 9), 7=-114 (LC 8)

Max Grav 5=94 (LC 1), 7=264 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/35, 2-3=-72/53, 3-4=-29/31,

4-5=-28/34, 2-7=-253/280

BOT CHORD 6-7=-158/67, 5-6=-65/52

WEBS 3-6=-29/44, 3-5=-60/90, 2-6=-7/108

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 7 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

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

Concentrated Loads (lb) Vert: 3=-2 (B), 8=-5 (B)



June 26,2025



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

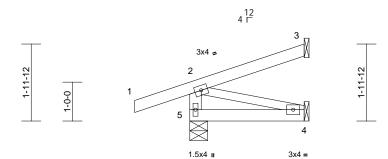


Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	J16	Jack-Open	4	1	Job Reference (optional)	174482583

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Page: 1







Scale = 1:29.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.Ó	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals.

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

bracing.

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

5=0-5-8 Max Horiz 5=57 (LC 8)

Max Uplift 3=-37 (LC 12), 5=-98 (LC 8)

3=64 (LC 1), 4=56 (LC 3), 5=264 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 2-5=-236/264, 1-2=0/35, 2-3=-40/23

BOT CHORD 4-5=-142/31 2-4=-32/147

WEBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 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 37 lb uplift at joint
- 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.

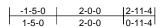
LOAD CASE(S) Standard



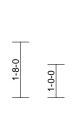
June 26,2025

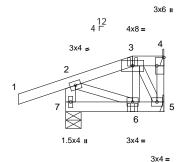
Job	Truss	Truss Type	Qty	Ply	
Sunflower Modern	J18	Half Hip Girder	2	1	Job Reference (optional)

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NAILED

1	2-1-4	2-11-4
	2-1-4	0-10-0

Scale = 1:34.5

Plate Offsets (X, Y): [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	0.24	Vert(LL)	0.00	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	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

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or

2-11-4 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.

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

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

bracing.

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

7=0-5-8

Max Horiz 7=73 (LC 9)

Max Uplift 4=-13 (LC 9), 5=-18 (LC 9), 7=-113

(LC 8) Max Grav

4=29 (LC 1), 5=65 (LC 3), 7=259

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35, 2-3=-68/47, 3-4=-28/31, 4-5=0/0,

2-7=-241/286

BOT CHORD 6-7=-156/66, 5-6=-61/67

WEBS 3-5=-87/79, 2-6=-7/116, 3-6=-9/59

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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 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 13 lb uplift at joint 4 and 18 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) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or
- 11) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb) Vert: 6=11 (F)



June 26,2025

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

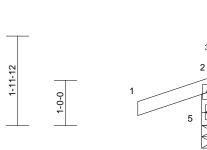


Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	J19	Jack-Open	3	1	Job Reference (optional)	174482585

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Page: 1





12 4 F 3x4 II

2-11-4

Scale = 1:25.5

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	0.24	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 12 lb	FT = 20%

1.5x4 II

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals.

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

bracing.

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

5=0-5-8

Max Horiz 5=57 (LC 8) Max Uplift 3=-43 (LC 12), 5=-98 (LC 8)

3=69 (LC 1), 4=49 (LC 3), 5=263 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-231/278, 1-2=0/35, 2-3=-44/22

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 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 43 lb uplift at joint
- 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.
- This truss 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



June 26,2025

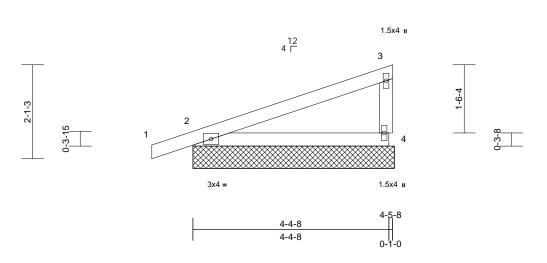


Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	M01	Monopitch Supported Gable	2	1	Job Reference (optional)	74482586

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Scale = 1:25.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 2=76 (LC 9)

Max Uplift 2=-85 (LC 8), 4=-45 (LC 12) Max Grav 2=265 (LC 1), 4=187 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/19, 2-3=-112/68, 3-4=-144/238

BOT CHORD 2-4=-30/40

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(3E) 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.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 4 and 85 lb uplift at joint 2.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 26,2025

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

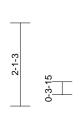


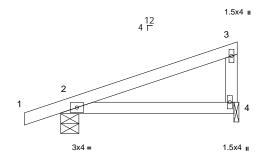
Job	Truss	Truss Type	Qty	Ply		
Sunflower Modern	M02	Monopitch	7	1	Job Reference (optional)	

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	4-5-8
4-4-8	[]
4-4-8	[] 0-1-0

Scale = 1:29.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.02	2-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.03	2-4	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 2=0-5-8, 4=0-1-8

Max Horiz 2=76 (LC 9)

Max Uplift 2=-95 (LC 8), 4=-42 (LC 12) Max Grav 2=275 (LC 1), 4=172 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/19, 2-3=-102/60, 3-4=-132/193 BOT CHORD 2-4=-30/33

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi, Joint 4 SPF No.3 crushing capacity of 425 psi.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 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



June 26,2025

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

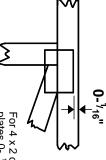


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

*Plate location details available in MiTek software or upon request.

PLATE SIZE

4 × 4

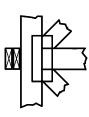
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



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

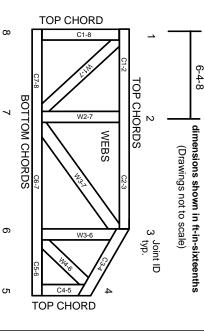
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

21. The design does not take into account any dynamic

or other loads other than those expressly stated.

LEE'S SUMMIT, MISSOURI

AS NOTED FOR PLAN RE