

RE: 4703112

JSJ, Cypress Prime - Elev. A (4-16-25)

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: JSJ Builders Project Name: 4703112 Lot/Block: 105 Model: Model: Cypress Prime A

Address: Subdivision: DUCKS LANDING

City: Lillington State: NC

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.8

Wind Code: ASCE 7-10 Wind Speed: 130 mph Floor Load: N/A psf Roof Load: 40.0 psf

This package includes 52 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	174008788	A01	6/6/2025	21	174008808	C02	6/6/2025
2	174008789	A02	6/6/2025	22	174008809	C03	6/6/2025
3	174008790	A03	6/6/2025	23	174008810	C04	6/6/2025
4	174008791	A04	6/6/2025	24	174008811	C05	6/6/2025
5	174008792	A05	6/6/2025	25	174008812	C06	6/6/2025
6	174008793	A06	6/6/2025	26	174008813	CJ1	6/6/2025
7	174008794	A07	6/6/2025	27	174008814	D01	6/6/2025
8	174008795	A08	6/6/2025	28	174008815	D02	6/6/2025
9	174008796	A09	6/6/2025	29	174008816	E01	6/6/2025
10	174008797	A10	6/6/2025	30	174008817	E02	6/6/2025
11	174008798	A11	6/6/2025	31	174008818	E03	6/6/2025
12	174008799	A12	6/6/2025	32	174008819	JA1	6/6/2025
13	174008800	A13	6/6/2025	33	174008820	JB1	6/6/2025
14	174008801	B01	6/6/2025	34	174008821	JB2	6/6/2025
15	174008802	B02	6/6/2025	35	174008822	JB3	6/6/2025
16	174008803	B03	6/6/2025	36	174008823	V01	6/6/2025
17	174008804	B04	6/6/2025	37	174008824	V02	6/6/2025
18	174008805	B05	6/6/2025	38	174008825	V03	6/6/2025
19	174008806	B06	6/6/2025	39	174008826	V04	6/6/2025
20	174008807	C01	6/6/2025	40	174008827	V05	6/6/2025

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

Truss Engineering Co. under my direct supervision

based on the parameters provided by Builders FirstSource-Sumter,SC.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2025

North Carolina COA: C-0844

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



June 06, 2025



RE: 4703112 - JSJ, Cypress Prime - Elev. A (4-16-25)

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Project Customer: JSJ Builders Project Name: 4703112

Lot/Block: 105 Subdivision: DUCKS LANDING

Address:

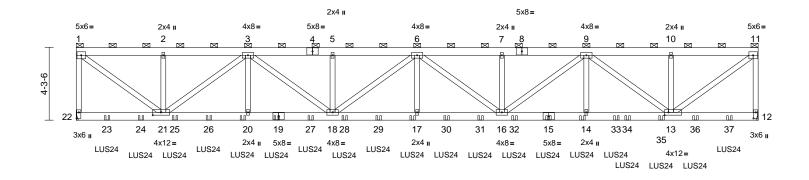
City, County: Lillington State: NC

No.	Seal#	Truss Name	Date
41	174008828	V06	6/6/2025
42	174008829	V07	6/6/2025
43	174008830	V08	6/6/2025
44	174008831	V09	6/6/2025
45	174008832	V10	6/6/2025
46	174008833	V11	6/6/2025
47	174008834	VA1	6/6/2025
48	174008835	VA2	6/6/2025
49	174008836	VA3	6/6/2025
50	174008837	VA4	6/6/2025
51	174008838	VA5	6/6/2025
52	174008839	VA6	6/6/2025

Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	A01	Flat Girder	1	2	Job Reference (optional)	174008788

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 13:38:26 ID:gJvp3UulHVaNSrZ96uhBERzbzQV-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

ı	5-1-9	10-1-6	15-1-3	20-1-0	25-0-13	30-0-10	35-0-7	40-2-0			
	5-1-9	4-11-13	4-11-13	4-11-13	4-11-13	4-11-13	4-11-13	5-1-9	٦		
	40-2-0										



1	5-1-9	10-1-6	15-1-3	20-1-0	25-0-13	30-0-10	35-0-7	40-2-0	
Cl- 4:07.0	5-1-9	4-11-13	4-11-13	4-11-13	4-11-13	4-11-13	4-11-13	5-1-9	

Plate Offsets (X, Y): [12:0-4-4,0-1-8], [13:0-2-12,0-2-0], [21:0-5-12,0-2-0], [22:0-4-4,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.24	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.46	16-17	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.09	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.42	16-17	>999	240	Weight: 603 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2

BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS

WEBS 2x4 SP No.2

BRACING

BOT CHORD

TOP CHORD 2-0-0 oc purlins (5-3-13 max.): 1-11, except

end verticals.

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

bracing.

REACTIONS (size) 12= Mechanical, 22= Mechanical

Max Uplift 12=-2172 (LC 4), 22=-2091 (LC 4) Max Grav 12=3435 (LC 1), 22=3343 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-22=-3143/1984, 1-2=-3943/2483,

2-3=-3943/2483, 3-5=-8397/5300, 5-6=-8397/5300, 6-7=-8458/5353, 7-9=-8458/5353, 9-10=-4063/2588, 10-11=-4063/2588, 11-12=-3236/2065

21-22=-23/36, 20-21=-4248/6736,

18-20=-4248/6736, 17-18=-5691/9006,

16-17=-5691/9006, 14-16=-4374/6880,

13-14=-4374/6880, 12-13=-23/36

WEBS 1-21=-3100/4923, 2-21=-299/231, 3-21=-3520/2224, 3-20=-337/625,

3-18=-1326/2093, 5-18=-273/206, 6-18=-767/493, 6-17=-343/638,

6-16=-690/426, 7-16=-273/205,

9-16=-1234/1988, 9-14=-409/723

9-13=-3550/2250, 10-13=-298/232,

11-13=-3232/5074

NOTES

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

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

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

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

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

unless otherwise indicated.

 Unbalanced roof live loads have been considered for this design.

 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

5) 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

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2091 lb uplift at joint 22 and 2172 lb uplift at joint 12.
- 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 LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-9-12 from the left end to 38-5-12 to connect truss(es) to front face of bottom chord.
- 12) 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
 Increase - 1.15
 Increase - 1.15

Uniform Loads (lb/ft) Vert: 1-11=-60, 12-22=-20

Concentrated Loads (lb)

Vert: 19=-179 (F), 20=-179 (F), 17=-179 (F), 14=-179 (F), 15=-179 (F), 23=-179 (F), 24=-179 (F), 25=-179 (F), 26=-179 (F), 27=-179 (F), 28=-179 (F), 29=-179

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(F), 30=-179 (F), 31=-179 (F), 32=-179 (F), 33=-179 (F), 34=-179 (F), 35=-179 (F), 36=-179 (F), 37=-179

(F)



June 6,2025

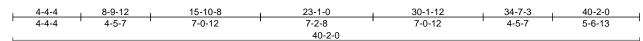
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

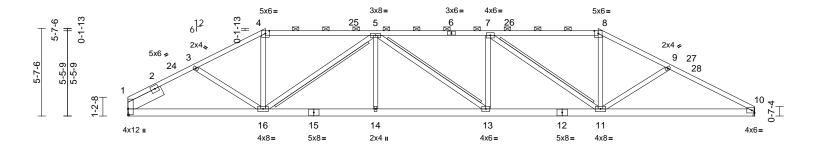
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	A02	Hip	1	1	Job Reference (optional)	174008789

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:27 ID:yzTAmFPWC0On_4svWYYkrizbzXb-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





8-8-0	15-10-8	23-1-0	30-3-8	40-2-0	
 8-8-0	7-2-8	7-2-8	7-2-8	9-10-8	

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.21	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.43	13-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.11	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.24	13-14	>999	240	Weight: 246 lb	FT = 20%

LUMBER

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

BOT CHORD 2x6 SP No.2 2x4 SP No.3 WEBS OTHERS 2x4 SPF No 2(flat) SLIDER

Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-1-8 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 4-8

BOT CHORD Rigid ceiling directly applied or 7-11-11 oc

bracing.

WEBS T-Brace: 2x4 SPF No.2 - 5-16,

5-13, 7-11

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with

3in minimum end distance.

Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 10= Mechanical Max Horiz 1=-129 (LC 13)

Max Uplift 1=-355 (LC 9), 10=-347 (LC 8)

Max Grav 1=1607 (LC 1), 10=1607 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-2430/821, 3-4=-2421/791,

4-5=-2142/766, 5-7=-3162/1060, 7-8=-2363/831, 8-9=-2706/872,

9-10=-2956/971

BOT CHORD 1-16=-628/2049, 14-16=-845/3102,

13-14=-845/3102, 11-13=-825/3162,

10-11=-793/2574

WEBS 3-16=-91/269, 4-16=-132/672,

8-11=-177/839, 9-11=-229/268, 5-14=0/306, 5-16=-1239/454, 5-13=-67/141, 7-13=0/236,

7-11=-1066/428

NOTES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-2-9, Interior (1) 4-2-9 to 8-9-12, Exterior (2) 8-9-12 to 14-5-14, Interior (1) 14-5-14 to 30-1-12, Exterior (2) 30-1-12 to 35-9-14, Interior (1) 35-9-14 to 40-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 355 lb uplift at joint 1 and 347 lb uplift at joint 10.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard



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

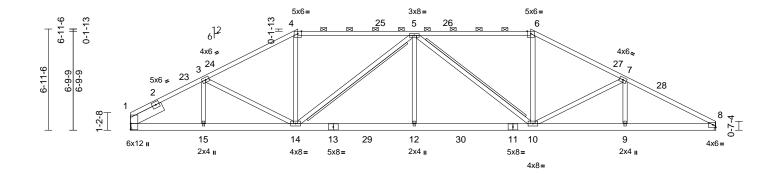
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Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	A03	Hip	1	1	Job Reference (optional)	174008790

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:27 ID:?u49gRJdiAjBLeisRQSOtQzbzaH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:79.1		5-0-1	6-3-14	8-1-12		8-1-12	<u>'</u>		6-3-7	14	6-2-1	0	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.15	10-12	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.31	10-12	>999	240			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.08	8	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.15	10-12	>999	240	Weight: 252 lb	FT = 20%	

27-7-8

33-11-6

40-2-0

19-5-12

LUMBER

2x4 SP No.1 *Except* 6-8:2x4 SP No.2 TOP CHORD **BOT CHORD** 2x6 SP 2400F 2.0E or 2x6 SP DSS *Except*

13-11:2x6 SP No.2 WEBS 2x4 SP No.3

OTHERS 2x4 SPF No.2(flat)

Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

BOT CHORD Rigid ceiling directly applied or 9-3-2 oc

bracing.

WEBS T-Brace: 2x4 SPF No.2 - 5-14.

5-10

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with

3in minimum end distance.

Brace must cover 90% of web length. REACTIONS (size) 1= Mechanical, 8= Mechanical

Max Horiz 1=-159 (LC 13)

Max Uplift 1=-323 (LC 12), 8=-341 (LC 13) Max Grav 1=1607 (LC 1), 8=1607 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-2361/747, 3-4=-2400/796,

4-5=-2074/785, 5-6=-2186/821,

6-7=-2537/839, 7-8=-2946/899 **BOT CHORD** 1-15=-588/2048, 14-15=-588/2048,

12-14=-634/2581, 10-12=-634/2581,

9-10=-730/2565, 8-9=-730/2565 3-14=-127/219, 4-14=-103/641,

5-14=-795/297, 5-12=0/379, 5-10=-676/276,

6-10=-126/716, 7-10=-423/317, 7-9=0/162,

3-15=-222/171

NOTES

WEBS

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-0-3, Interior (1) 4-0-3 to 11-5-12, Exterior (2) 11-5-12 to 17-1-14, Interior (1) 17-1-14 to 27-5-12, Exterior (2) 27-5-12 to 33-1-14, Interior (1) 33-1-14 to 40-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 323 lb uplift at joint 1 and 341 lb uplift at joint 8.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard



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11-4-0

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

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Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	A04	Hip	1	1	Job Reference (optional)	I74008791

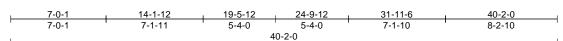
Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 13:38:28 ID:J3V4mmVTaaMFurO4L_nlwlzbzdw-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

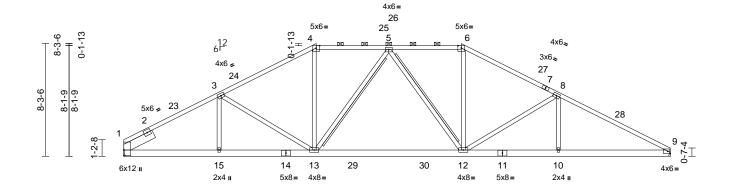
31-11-6

6-11-14

40-2-0

8-2-10





Scale = 1:84.7												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.22	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.43	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.13	13-15	>999	240	Weight: 251 lb	FT = 20%

24-11-8

10-11-8

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-4:2x4 SP No.1 BOT CHORD 2x6 SP No.2 *Except* 1-14:2x6 SP 2400F

2.0E or 2x6 SP DSS WEBS 2x4 SP No.3

OTHERS 2x4 SPF No.2(flat)

SLIDER Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0

BRACING TOP CHORD

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (3-10-9 max.): 4-6. BOT CHORD Rigid ceiling directly applied or 8-10-14 oc

bracing.

WEBS T-Brace: 2x4 SPF No.2 - 5-13,

5-12

7-0-1

7-0-1

14-0-0

6-11-15

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with

3in minimum end distance.

Brace must cover 90% of web length. **REACTIONS** (size) 1= Mechanical, 9= Mechanical

Max Horiz 1=-189 (LC 13)

Max Uplift 1=-359 (LC 12), 9=-375 (LC 13) Max Grav 1=1607 (LC 1), 9=1607 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-2448/767, 3-4=-2248/761,

4-5=-1924/758, 5-6=-1980/777, 6-8=-2324/787, 8-9=-2901/868

BOT CHORD 1-15=-578/2118, 13-15=-578/2118, 12-13=-482/2081, 10-12=-675/2500,

9-10=-675/2500

WEBS 3-15=-139/138, 3-13=-258/306,

4-13=-128/620, 5-13=-411/230, 5-12=-330/220, 6-12=-147/671,

8-12=-612/395, 8-10=0/252

NOTES

 Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-0-3, Interior (1) 4-0-3 to 14-1-12, Exterior (2) 14-1-12 to 19-9-14, Interior (1) 19-9-14 to 24-9-12, Exterior (2) 24-9-12 to 30-5-14, Interior (1) 30-5-14 to 40-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 359 lb uplift at joint 1 and 375 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard



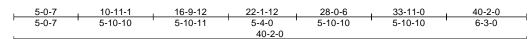
June 6,2025

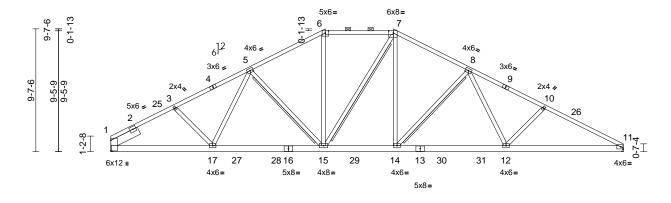
Page: 1

ERENCO

Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	A05	Hip	1	1	Job Reference (optional)	174008792

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:28 ID:GfyXPVOCe6WU5bPjNag18bzbzjE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





1	7-11-13	16-8-0	22-3-8	30-11-11	40-2-0
Г	7-11-13	8-8-3	5-7-8	8-8-3	9-2-5

Scale = 1:90.3 Plate Offsets (X, Y): [7:0-4-6,Edge]

		•										
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.18	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.35	12-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.16	15-17	>999	240	Weight: 265 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-4:2x4 SP No.1 BOT CHORD 2x6 SP No.2 *Except* 1-16:2x6 SP 2400F

2 0F or 2x6 SP DSS

WFBS 2x4 SP No.3 OTHERS 2x4 SPF No.2(flat)

Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0 **SLIDER**

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except

2-0-0 oc purlins (3-9-12 max.): 6-7. BOT CHORD Rigid ceiling directly applied or 8-10-12 oc

bracing.

WFBS T-Brace: 2x4 SPF No.2 - 5-15.

7-15, 8-14

Fasten (2X) T and I braces to narrow edge of

web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 11= Mechanical

Max Horiz 1=-219 (LC 13)

Max Uplift 1=-389 (LC 12), 11=-404 (LC 13)

Max Grav 1=1607 (LC 1), 11=1607 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-3=-2479/767, 3-5=-2359/755,

5-6=-2035/751, 6-7=-1741/736,

7-8=-2058/760, 8-10=-2711/839,

10-11=-2953/871

BOT CHORD 1-17=-638/2124, 15-17=-513/2039, 14-15=-330/1771, 12-14=-538/2181,

11-12=-678/2566

WEBS 3-17=-106/210, 5-17=-19/219, 5-15=-456/339, 6-15=-142/594,

> 7-15=-219/149, 7-14=-197/666, 8-14=-614/380, 8-12=-104/476,

10-12=-311/285

1) Unbalanced roof live loads have been considered for

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-0-3, Interior (1) 4-0-3 to 16-9-12, Exterior (2) 16-9-12 to 28-0-6, Interior (1) 28-0-6 to 40-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 389 lb uplift at joint 1 and 404 lb uplift at joint 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard



June 6,2025

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NOTES

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

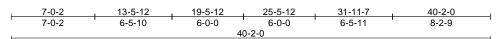
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

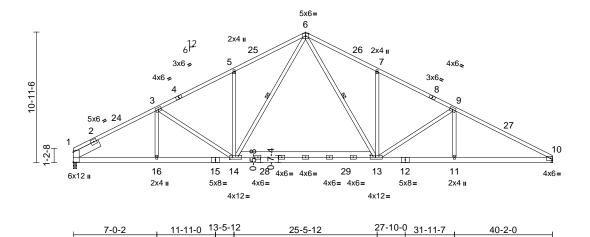
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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



Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	A06	Common	1	1	Job Reference (optional)	174008793

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:29 ID:aCDu6yK3YBJ1P6ILFkAT3yzbzoT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:96.6

Plate Offsets (X, Y): [13:0-5-4,0-2-0], [14:0-2-8,0-2-0]

7-0-2

4-10-14

1-6-12

	-		-					-	-			
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.19	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.37	13-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.16	13	>999	240	Weight: 285 lb	FT = 20%

12-0-0

2-4-4

4-1-7

8-2-9

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-4:2x4 SP No.1 2x6 SP No.2 *Except* 1-15:2x6 SP 2400F BOT CHORD

2.0E or 2x6 SP DSS 2x4 SP No 3

WFBS **SLIDER** Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied. Rigid ceiling directly applied or 9-0-0 oc BOT CHORD

bracing

WFBS 1 Row at midpt 6-14. 6-13

1=0-3-8, 10= Mechanical REACTIONS (size)

Max Horiz 1=-251 (LC 13)

Max Uplift 1=-414 (LC 12), 10=-427 (LC 13)

Max Grav 1=1607 (LC 1), 10=1607 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-3=-2439/680. 3-5=-2270/667.

5-6=-2283/813, 6-7=-2345/826,

7-9=-2349/687, 9-10=-2896/759

1-16=-662/2104, 14-16=-662/2104, 13-14=-244/1516, 11-13=-543/2493,

10-11=-543/2493

WEBS 3-16=-142/103, 3-14=-242/244,

5-14=-422/359, 6-14=-435/933,

6-13=-468/1031, 7-13=-387/341,

9-13=-587/349, 9-11=0/254

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-0-3, Interior (1) 4-0-3 to 19-5-12, Exterior (2) 19-5-12 to 23-5-15, Interior (1) 23-5-15 to 40-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 427 lb uplift at joint 10 and 414 lb uplift at joint 1.

LOAD CASE(S) Standard



June 6,2025

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria 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.sbcacomponents.com)



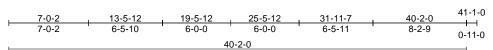
818 Soundside Road Edenton, NC 27932

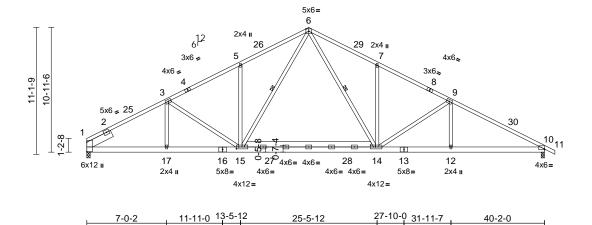
Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	A07	Common	3	1	Job Reference (optional)	174008794

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:29 ID:z4dm2sJJttHjtR1Fz9glokzbzr4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

40-2-0

8-2-9





Scale = 1:101.1

Plate Offsets (X, Y): [10:Edge,0-0-11], [14:0-5-4,0-2-0], [15:0-2-8,0-2-0]

7-0-2

7-0-2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.19	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.37	14-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.16	14	>999	240	Weight: 287 lb	FT = 20%

25-5-12

12-0-0

2-4-4

4-1-7

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-4:2x4 SP No.1 2x6 SP No.2 *Except* 1-16:2x6 SP 2400F BOT CHORD

2.0E or 2x6 SP DSS 2x4 SP No 3

WFBS **SLIDER** Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied. Rigid ceiling directly applied or 9-0-13 oc BOT CHORD

bracing

WFBS 1 Row at midpt 6-15, 6-14

REACTIONS (size) 1=0-3-8, 10=0-3-8 Max Horiz 1=-271 (LC 13)

Max Uplift 1=-414 (LC 12), 10=-458 (LC 13)

Max Grav 1=1606 (LC 1), 10=1662 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-3=-2438/680. 3-5=-2268/667.

5-6=-2282/812, 6-7=-2343/821,

7-9=-2347/678, 9-10=-2889/750, 10-11=0/25

BOT CHORD 1-17=-652/2103, 15-17=-652/2103, 14-15=-234/1515, 12-14=-519/2487,

10-12=-519/2487

WEBS 5-15=-422/359, 6-15=-435/932,

3-15=-242/244, 6-14=-467/1030, 7-14=-388/341, 9-14=-582/346,

3-17=-141/103, 9-12=0/252

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-0-3, Interior (1) 4-0-3 to 19-5-12, Exterior (2) 19-5-12 to 23-5-15, Interior (1) 23-5-15 to 41-1-0 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 414 lb uplift at joint 1 and 458 lb uplift at joint 10.

LOAD CASE(S) Standard

11-11-0 13-5-12

4-10-14 1-6-12



June 6,2025

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

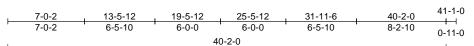
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria 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.sbcacomponents.com)

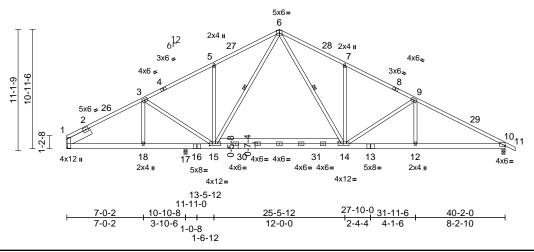


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	A08	Common	4	1	Job Reference (optional)	174008795

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:29 ID:EsaZS7Vvi_XGY0C_RbPDVPzbzmy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:105.6

Plate Offsets (X, Y): [1:0-10-1,0-0-4], [10:Edge,0-0-11], [14:0-5-12,0-2-0], [15:0-3-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.16	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.31	14-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.12	14-15	>999	240	Weight: 287 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x6 SP No.2 *Except* 1-16:2x6 SP 2400F BOT CHORD

2.0E or 2x6 SP DSS 2x4 SP No 3

WFBS SLIDER Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-8-3 oc purlins.

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

bracing.

WEBS 1 Row at midpt 6-15, 6-14

REACTIONS (size) 1= Mechanical, 10=0-3-8, 17=0-3-8

Max Horiz 1=-271 (LC 13)

Max Uplift 1=-255 (LC 12), 10=-408 (LC 13),

17=-219 (LC 12)

Max Grav 1=891 (LC 1), 10=1397 (LC 1),

17=981 (LC 1)

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

Tension TOP CHORD

1-3=-1115/397, 3-5=-1144/421,

5-6=-1148/565, 6-7=-1779/715,

7-9=-1783/547, 9-10=-2330/645, 10-11=0/25

BOT CHORD 1-18=-393/1000, 17-18=-393/1000,

15-17=-393/1000, 14-15=-111/976,

12-14=-425/1987, 10-12=-425/1987

3-18=-349/149, 3-15=-122/210, 5-15=-408/356, 6-15=-245/181,

6-14=-484/1108, 7-14=-386/341,

9-14=-587/348, 9-12=0/253

NOTES

WFBS

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-0-3, Interior (1) 4-0-3 to 19-5-12, Exterior (2) 19-5-12 to 23-5-15, Interior (1) 23-5-15 to 41-1-0 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 255 lb uplift at joint 1, 408 lb uplift at joint 10 and 219 lb uplift at joint 17.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	A09	Hip	1	1	Job Reference (optional)	174008796

40-2-0

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

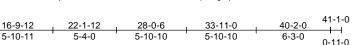
5-0-7

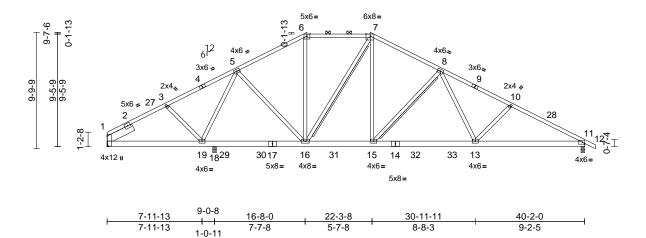
5-0-7

10-11-1

5-10-10

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:30 ID:UHzF6qBk0OlaxF8JzJrRYWzbzfc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:96.9

Plate Offsets (X, Y): [1:0-10-1,0-0-4], [7:0-4-6,Edge]

			-					-	-			
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.12	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.23	13-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.10	13-15	>999	240	Weight: 267 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.3 WEBS OTHERS 2x4 SPF No 2(flat)

Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0

SLIDER **BRACING**

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

WEBS T-Brace: 2x4 SPF No.2 - 7-16,

8-15

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with

3in minimum end distance.

Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 11=0-3-8, 18=0-3-8

Max Horiz 1=-240 (LC 13)

Max Uplift 1=-194 (LC 12), 11=-394 (LC 13),

18=-252 (LC 12)

1=660 (LC 1), 11=1387 (LC 1),

18=1264 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-691/336, 3-5=-585/310, 5-6=-1204/541,

6-7=-1003/534, 7-8=-1460/611, 8-10=-2125/683, 10-11=-2369/706,

11-12=0/25

BOT CHORD 1-19=-324/653, 18-19=-230/842,

16-18=-230/842, 15-16=-181/1225 13-15=-390/1651, 11-13=-533/2047

WEBS 5-16=-49/393, 6-16=-69/261, 7-16=-524/198,

7-15=-209/733, 8-15=-622/381, 8-13=-104/487, 10-13=-317/285, 5-19=-915/333, 3-19=-289/253

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-0-3, Interior (1) 4-0-3 to 16-9-12, Exterior (2) 16-9-12 to 28-0-6, Interior (1) 28-0-6 to 41-1-0 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, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 194 lb uplift at joint 1, 394 lb uplift at joint 11 and 252 lb uplift at joint 18.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard



June 6,2025

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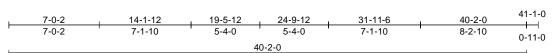
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

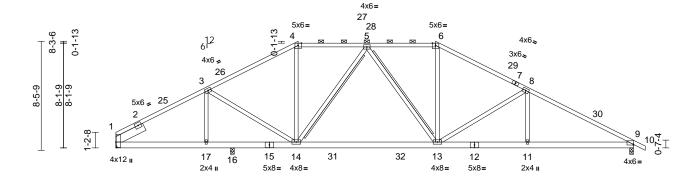
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	A10	Hip	1	1	Job Reference (optional)	174008797

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:30 ID:K8cn20K7ZTwb2lb8HG?ihdzbzcs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





9-0-8 14-0-0 24-11-8 40-2-0 7-0-2 2-0-6 4-11-8 10-11-8 6-11-14 8-2-10

Scale = 1:89.4 Plate Offsets (X, Y): [1:0-5-0,0-0-4], [9:Edge,0-0-11]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.22	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.42	13-14	>895	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.12	13-14	>999	240	Weight: 253 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x6 SP No.2 **BOT CHORD** 2x4 SP No.3 WEBS OTHERS 2x4 SPF No 2(flat)

SLIDER Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except

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

BOT CHORD bracing.

WEBS T-Brace: 2x4 SPF No.2 - 5-14,

5-13

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with

3in minimum end distance.

Brace must cover 90% of web length.

REACTIONS (size)

1= Mechanical, 9=0-3-8, 16=0-3-8 Max Horiz 1=-210 (LC 13)

Max Uplift 1=-265 (LC 12), 9=-384 (LC 13),

16=-121 (LC 12)

1=959 (LC 1), 9=1474 (LC 1),

16=835 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-3=-1218/485, 3-4=-1505/586,

4-5=-1257/573, 5-6=-1623/696,

6-8=-1923/695, 8-9=-2497/775, 9-10=0/25 **BOT CHORD** 1-17=-360/1041, 16-17=-360/1041,

14-16=-360/1041, 13-14=-339/1567,

11-13=-576/2140, 9-11=-576/2140

WEBS 4-14=-56/364, 5-14=-628/258, 5-13=-91/220,

6-13=-89/512, 8-13=-611/393, 8-11=0/249, 3-17=-651/294, 3-14=-114/418

NOTES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-0-3, Interior (1) 4-0-3 to 14-1-12, Exterior (2) 14-1-12 to 19-9-14, Interior (1) 19-9-14 to 24-9-12, Exterior (2) 24-9-12 to 30-5-14, Interior (1) 30-5-14 to 41-1-0 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, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 265 lb uplift at joint 1, 384 lb uplift at joint 9 and 121 lb uplift at joint 16.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard



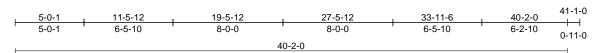
June 6,2025

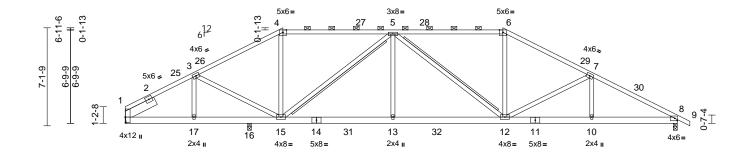
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Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	A11	Hip	1	1	Job Reference (optional)	174008798

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:30 ID:MfTKQa?IWNmF3F_cjBTX8EzbzZP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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5-0-1	9-0-8	11-4-0	19-5-12	27-7-8	33-11-6	40-2-0
5-0-1	4-0-7	2-3-8	8-1-12	8-1-12	6-3-14	6-2-10

Scale = 1:83.8 Plate Offsets (X, Y): [1:0-5-0,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.12	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.26	13-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.12	13-15	>999	240	Weight: 253 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 4-6:2x4 SP No.1 2x6 SP No.2 *Except* 1-14:2x6 SP 2400F BOT CHORD

2 0F or 2x6 SP DSS

WFBS 2x4 SP No.3 OTHERS 2x4 SPF No.2(flat)

Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0 **SLIDER**

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

3-2-10 oc purlins, except

2-0-0 oc purlins (3-8-8 max.): 4-6. BOT CHORD Rigid ceiling directly applied or 9-6-0 oc

bracing.

WFBS T-Brace: 2x4 SPF No.2 - 5-15,

5-12

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with

3in minimum end distance.

Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 8=0-3-8, 16=0-3-8

Max Horiz 1=-180 (LC 13)

1=-196 (LC 12), 8=-347 (LC 13), Max Uplift

16=-198 (LC 9)

Max Grav 1=793 (LC 1), 8=1426 (LC 1),

16=1049 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-845/358. 3-4=-1137/449. 4-5=-944/451.

5-6=-1719/697, 6-7=-2011/700, 7-8=-2464/770, 8-9=0/25

1-17=-259/788, 16-17=-259/788, 15-16=-259/788, 13-15=-411/1843,

12-13=-411/1843, 10-12=-599/2134, 8-10=-599/2134

WEBS 4-15=0/215, 5-15=-1208/373, 5-13=0/440,

5-12=-367/209, 6-12=-53/511,

7-12=-463/319, 7-10=0/193, 3-17=-487/252,

3-15=-132/329

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-0-3, Interior (1) 4-0-3 to 11-5-12, Exterior (2) 11-5-12 to 17-1-14, Interior (1) 17-1-14 to 27-5-12, Exterior (2) 27-5-12 to 33-1-14, Interior (1) 33-1-14 to 41-1-0 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, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 1, 347 lb uplift at joint 8 and 198 lb uplift at joint 16.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard



June 6,2025

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

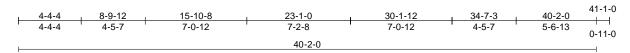
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

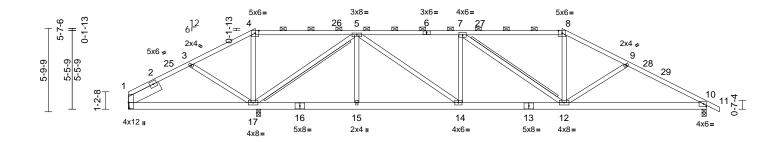


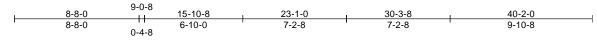
Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	A12	Hip	1	1	Job Reference (optional)	174008799

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 13:38:31 ID:vRieTBFQjWCsNrCMcFo8gSzbzWV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:80.1 Plate Offsets (X, Y): [1:0-5-0,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.09	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.17	12-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.10	12-14	>999	240	Weight: 247 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.3 WEBS OTHERS 2x4 SPF No 2(flat)

Left 2x8 SP 2400F 2.0E or DSS -- 2-6-0

SLIDER **BRACING**

TOP CHORD Structural wood sheathing directly applied or

3-11-5 oc purlins, except

2-0-0 oc purlins (3-7-9 max.): 4-8. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 1-17.

WEBS T-Brace: 2x4 SPF No.2 - 5-17,

7-12

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with

3in minimum end distance.

Brace must cover 90% of web length.

REACTIONS (size) 1= Mechanical, 10=0-3-8, 17=0-3-8

Max Horiz 1=-150 (LC 13) 1=-203 (LC 24), 10=-285 (LC 13), Max Uplift

17=-570 (LC 9)

1=149 (LC 8), 10=1212 (LC 24),

17=2111 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-400/531, 3-4=-213/740, 4-5=-144/601,

5-7=-1653/599, 7-8=-1502/568,

8-9=-1739/576, 9-10=-2009/682, 10-11=0/25 **BOT CHORD** 1-17=-423/288, 15-17=-240/944,

14-15=-240/944, 12-14=-404/1653,

10-12=-520/1732

3-17=-380/276, 4-17=-615/293,

8-12=-43/474, 9-12=-264/271, 5-15=0/263,

5-17=-1857/622, 5-14=-279/878, 7-14=-361/239, 7-12=-309/211

NOTES

WEBS

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 4-2-9, Interior (1) 4-2-9 to 8-9-12, Exterior (2) 8-9-12 to 14-5-14, Interior (1) 14-5-14 to 30-1-12, Exterior (2) 30-1-12 to 35-9-14, Interior (1) 35-9-14 to 41-1-0 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 203 lb uplift at joint 1, 570 lb uplift at joint 17 and 285 lb uplift at joint 10.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

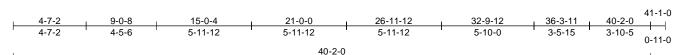
LOAD CASE(S) Standard

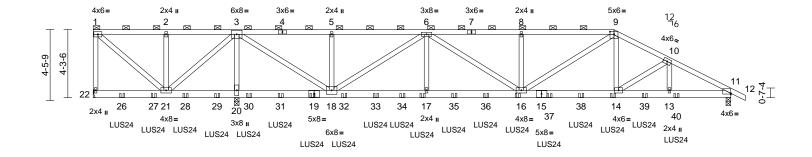


Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	A13	Roof Special Girder	1	2	Job Reference (optional)	174008800

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:31 ID:Q?hFMD99r9Oe8iJm5I_CNAzbzJi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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	4-7-2	9-0-8	15-0-4	21-0-0	26-11-12	32-11-8	36-3-11	40-2-0
Scale = 1:72.6	4-7-2	4-5-6	5-11-12	5-11-12	5-11-12	5-11-12	3-4-3	3-10-5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.12	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.22	16-17	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.20	16-17	>999	240	Weight: 515 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x6 SP No.2 **BOT CHORD** 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 (5-11-3 max.): 1-9.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 20-21,18-20.

REACTIONS (size) 11=0-3-8, 20=0-3-8, 22=

Mechanical Max Horiz 22=-213 (LC 9)

11=-1125 (LC 4), 20=-3169 (LC 4), Max Uplift

22=-620 (LC 1)

11=2192 (LC 1), 20=5141 (LC 1), Max Grav

22=362 (LC 4)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-22=-448/794, 1-2=-592/1017,

2-3=-592/1017, 3-5=-1051/718, 5-6=-1051/718, 6-8=-4069/2520 8-9=-4069/2520, 9-10=-3663/2135,

10-11=-3856/2104. 11-12=0/25

BOT CHORD 21-22=0/215, 20-21=-2816/1805

18-20=-2816/1805, 17-18=-2053/3409, 16-17=-2053/3409. 14-16=-1790/3218.

13-14=-1818/3386. 11-13=-1818/3386 WEBS

9-14=-466/794, 10-14=-165/237, 10-13=-34/86, 3-20=-4436/2740, 5-18=-355/252, 3-18=-2859/4604

6-18=-2831/1736, 6-17=-483/864, 6-16=-416/788, 8-16=-374/261, 9-16=-762/1108, 3-21=-1442/2394, 2-21=-259/190, 1-21=-1373/801

NOTES

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

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

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

- Web connected as follows: 2x4 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 620 lb uplift at joint 22, 3169 lb uplift at joint 20 and 1125 lb uplift at joint 11.
- 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 LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-9-12 from the left end to 36-9-0 to connect truss(es) to back face of bottom chord.
- 12) 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: 1-9=-60, 9-12=-60, 22-23=-20

Concentrated Loads (lb)

Vert: 19=-179 (B), 14=-179 (B), 17=-179 (B), 16=-179 (B), 26=-179 (B), 27=-179 (B), 28=-179 (B), 29=-179 (B), 30=-179 (B), 31=-179 (B), 32=-179 (B), 33=-179 (B), 34=-179 (B), 35=-179 (B), 36=-179 (B), 37=-179 (B), 38=-179 (B), 39=-179 (B), 40=-227 (B)



June 6,2025

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

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

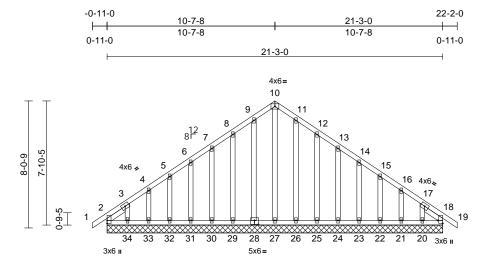
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overal building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	B01	Common Supported Gable	1	1	Job Reference (optional)	174008801

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:32 ID:allIuQnGkqksg2PTJqO5gxzbzGJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





21-3-0 Scale = 1:72.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 167 lb	FT = 20%

LUMBER		TO
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
OTHERS	2x4 SP No.3	
SLIDER	Left 2x4 SP No.2 1-5-7, Right 2x4 SP No.2	
	1-5-7	

BRACING TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins

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

REACTIONS (size) 2=21-3-0, 18=21-3-0, 20=21-3-0, 21=21-3-0, 22=21-3-0, 23=21-3-0, 24=21-3-0, 25=21-3-0, 26=21-3-0, 27=21-3-0, 28=21-3-0, 29=21-3-0,

30=21-3-0, 31=21-3-0, 32=21-3-0, 33=21-3-0, 34=21-3-0

Max Horiz 2=-257 (LC 10)

Max Uplift 2=-110 (LC 8), 18=-35 (LC 9), 20=-132 (LC 13), 21=-62 (LC 13),

22=-70 (LC 13), 23=-68 (LC 13), 24=-68 (LC 13), 25=-79 (LC 13), 26=-44 (LC 13), 27=-3 (LC 11), 28=-51 (LC 12), 29=-75 (LC 12),

30=-68 (LC 12), 31=-68 (LC 12), 32=-70 (LC 12), 33=-61 (LC 12),

34=-153 (LC 12)

2=199 (LC 20), 18=142 (LC 22), 20=131 (LC 20), 21=120 (LC 20), 22=121 (LC 20), 23=120 (LC 20),

24=120 (LC 20), 25=123 (LC 20), 26=119 (LC 20), 27=196 (LC 13), 28=127 (LC 19), 29=121 (LC 19), 30=120 (LC 19), 31=120 (LC 19),

32=121 (LC 19), 33=118 (LC 19),

34=154 (LC 19)

(lb) - Maximum Compression/Maximum Tension

OP CHORD 1-2=0/31, 2-3=-73/70, 3-4=-184/168

4-5=-153/149, 5-6=-138/134, 6-7=-122/143, 7-8=-124/174, 8-9=-173/210, 9-10=-203/238, 10-11=-203/238, 11-12=-172/200,

12-13=-124/142, 13-14=-80/90, 14-15=-54/49, 15-16=-67/58, 16-17=-117/80,

17-18=-52/46, 18-19=0/31

BOT CHORD 2-34=-122/190, 33-34=-122/190,

32-33=-122/190, 31-32=-122/190, 30-31=-122/190. 29-30=-122/190.

27-29=-122/190, 26-27=-122/190, 25-26=-122/190, 24-25=-122/190, 23-24=-122/190. 22-23=-122/190.

21-22=-122/190, 20-21=-122/190, 18-20=-122/190

WEBS 10-27=-186/119, 9-28=-100/67, 8-29=-114/92

7-30=-105/84, 6-31=-105/84, 5-32=-105/84, 4-33=-106/83, 3-34=-140/142, 11-26=-92/60, 12-25=-114/95, 13-24=-105/84,

14-23=-105/84, 15-22=-105/84, 16-21=-106/84, 17-20=-144/126

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-11-0 to 2-1-0, Exterior (2) 2-1-0 to 10-7-8, Corner (3) 10-7-8 to 13-7-8, Exterior (2) 13-7-8 to 22-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (||) MT20 unless otherwise indicated.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 2, 35 lb uplift at joint 18, 3 lb uplift at joint 27, 51 lb uplift at joint 28, 75 lb uplift at joint 29, 68 lb uplift at joint 30, 68 lb uplift at joint 31, 70 lb uplift at joint 32, 61 lb uplift at joint 33, 153 lb uplift at joint 34, 44 lb uplift at joint 26, 79 Ib uplift at joint 25, 68 lb uplift at joint 24, 68 lb uplift at joint 23, 70 lb uplift at joint 22, 62 lb uplift at joint 21, 132 Ib uplift at joint 20, 110 lb uplift at joint 2 and 35 lb uplift at joint 18.

LOAD CASE(S) Standard



June 6,2025

FORCES

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

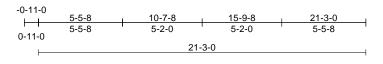
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

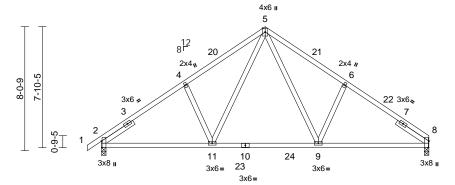


Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	B02	Common	2	1	Job Reference (optional)	174008802

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:32 ID:d0YPegkiD5mCkgFli3KheazbzHg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





14-0-13 21-3-0 7-2-3 6-10-11 7-2-3

Scale = 1:74.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.11	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.17	9-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.03	11-18	>999	240	Weight: 115 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.3

SLIDER Left 2x4 SP No.2 -- 2-6-0, Right 2x4 SP No.2

-- 2-6-0

BRACING TOP CHORD Structural wood sheathing directly applied or

5-2-11 oc purlins.

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

bracing

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

Max Horiz 2=250 (LC 9)

Max Uplift 2=-240 (LC 12), 8=-209 (LC 13)

Max Grav 2=906 (LC 1), 8=849 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=0/31, 2-4=-1071/307, 4-5=-1125/379, TOP CHORD

5-6=-1125/390, 6-8=-1092/317

2-11=-295/1009, 9-11=-81/674, 8-9=-164/868 BOT CHORD WEBS 5-9=-224/523, 6-9=-348/304, 5-11=-221/517,

4-11=-348/303

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 10-7-8, Exterior (2) 10-7-8 to 13-7-8, Interior (1) 13-7-8 to 21-3-0 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 209 lb uplift at joint 8 and 240 lb uplift at joint 2.

LOAD CASE(S) Standard

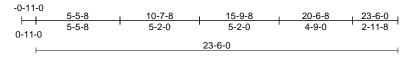
June 6,2025

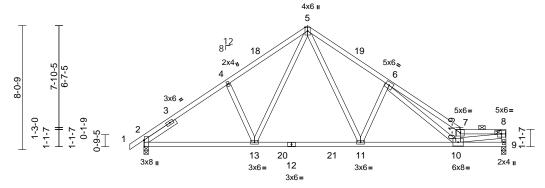


Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	B03	Roof Special	1	1	Job Reference (optional)	174008803

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7-2-3 14-0-13 20-4-12 23-6-0 7-2-3 6-10-10 6-3-15 3-1-4

Scale = 1:74.8

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

	(0		2.2.2			5		<i>(</i> 1)	1/1.0		DI 4750	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.14	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.30	10-11	>941	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.16	10-11	>999	240	Weight: 133 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* 8-9,10-8:2x4 SP No.2 WEBS

Left 2x4 SP No.2 -- 2-6-0 SLIDER

BRACING TOP CHORD

Structural wood sheathing directly applied or 3-0-14 oc purlins, except end verticals, and

2-0-0 oc purlins (3-4-14 max.): 7-8.

Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

bracing.

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

Max Horiz 2=247 (LC 9)

Max Uplift 2=-253 (LC 12), 9=-247 (LC 13)

Max Grav 2=990 (LC 1), 9=933 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/31, 2-4=-1221/337, 4-5=-1253/408,

5-6=-1399/447, 6-7=-2750/737, 7-8=-2738/688, 8-9=-852/239

2-13=-323/1103, 11-13=-111/777,

BOT CHORD 10-11=-266/1216, 9-10=-52/179

4-13=-342/302, 5-13=-217/497,

5-11=-286/782, 6-11=-587/366,

6-10=-387/1397, 7-10=-1698/543,

8-10=-658/2649

NOTES

WEBS

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 10-7-8, Exterior (2) 10-7-8 to 13-7-8, Interior (1) 13-7-8 to 23-4-4 zone; cantilever left and right exposed; end vertical left 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 247 lb uplift at joint 9 and 253 lb uplift at joint 2.
- 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 6,2025

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

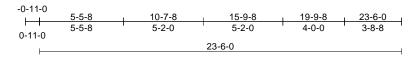
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria 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.sbcacomponents.com)

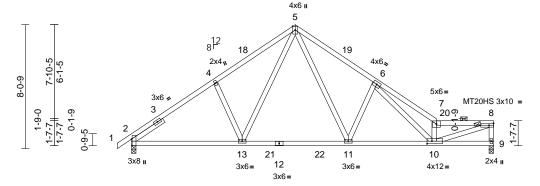


Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	B04	Roof Special	1	1	Job Reference (optional)	174008804

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:33 ID:0Ouq2ev6z6EFdi73Q00b7LzbzCH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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14-0-13 19-7-12 23-6-0 7-2-3 6-10-10 5-6-15 3-10-4

Scale = 1:74.8

Plate Offsets (X, Y): [2:0-5-2,Edge], [10:0-3-12,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.13	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.23	11-13	>999	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.11	10-11	>999	240	Weight: 134 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* 8-9:2x4 SP No.2 WEBS

SLIDER Left 2x4 SP No.2 -- 2-6-0

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

3-6-6 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-12 max.): 7-8.

Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=245 (LC 9)

Max Uplift 2=-253 (LC 12), 9=-249 (LC 13)

Max Grav 2=990 (LC 1), 9=933 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-4=-1222/336, 4-5=-1248/407,

5-6=-1375/441, 6-7=-2379/644,

7-8=-2098/519. 8-9=-872/258 **BOT CHORD** 2-13=-337/1098, 11-13=-125/772, 10-11=-281/1211, 9-10=-28/85

6-10=-304/1073, 7-10=-1470/473, 8-10=-521/2137, 5-13=-217/500,

4-13=-340/302, 5-11=-275/752,

6-11=-580/355

NOTES

WEBS

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 10-7-8, Exterior (2) 10-7-8 to 13-7-8, Interior (1) 13-7-8 to 23-4-4 zone; cantilever left and right exposed; end vertical left 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 249 lb uplift at joint 9 and 253 lb uplift at joint 2.
- 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

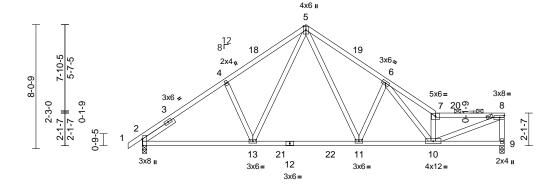


June 6,2025

Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	B05	Roof Special	1	1	Job Reference (optional)	174008805

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:33 ID:VO1UyQXjk4ntsh62TxynElzbzBT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





7-2-3	14-0-13	18-10-12	23-6-0
7-2-3	6-10-10	4-9-15	4-7-4

Scale = 1:74.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.13	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.22	11-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.09	10-11	>999	240	Weight: 136 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* 8-9:2x4 SP No.2 WEBS

SLIDER Left 2x4 SP No.2 -- 2-6-0

BRACING

Structural wood sheathing directly applied or TOP CHORD

3-10-1 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-7 max.): 7-8.

BOT CHORD Rigid ceiling directly applied or 9-9-13 oc

bracing.

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

Max Horiz 2=243 (LC 9)

Max Uplift 2=-252 (LC 12), 9=-250 (LC 13)

Max Grav 2=990 (LC 1), 9=933 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/31, 2-4=-1223/334, 4-5=-1242/406,

5-6=-1357/440, 6-7=-2085/563,

7-8=-1805/452. 8-9=-874/272

BOT CHORD 2-13=-350/1093, 11-13=-139/766, 10-11=-286/1191, 9-10=-21/62

4-13=-341/302, 5-13=-216/502,

6-10=-241/842, 7-10=-1331/432, 8-10=-465/1882, 5-11=-273/732,

6-11=-568/343

NOTES

WEBS

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 10-7-8, Exterior (2) 10-7-8 to 13-7-8, Interior (1) 13-7-8 to 23-4-4 zone; cantilever left and right exposed; end vertical left 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 250 lb uplift at joint 9 and 252 lb uplift at joint 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard

Page: 1

June 6,2025

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 a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria 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.sbcacomponents.com)



Job Truss Truss Type Qty Ply JSJ, Cypress Prime - Elev. A (4-16-25) 174008806 4703112 B06 Roof Special Girder 2 Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:33 ID:OEOi32PumCsfVlcuh3Eg8UzbzAL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

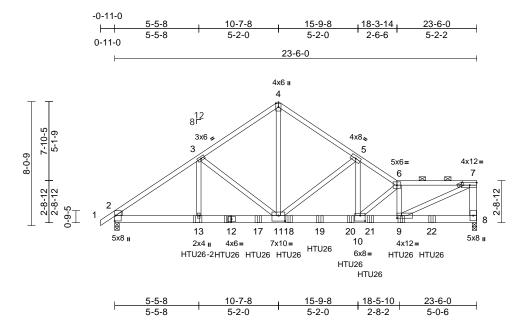


Plate Offsets (X, Y): [2:Edge,0-0-9], [9:0-3-8,0-2-0], [10:0-3-12,0-4-4], [11:0-5-0,0-4-4]

		1		1								
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.14	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.27	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.17	10-11	>999	240	Weight: 314 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x6 SP No.2 *Except* 12-8:2x6 SP 2400F BOT CHORD

2.0E or 2x6 SP DSS

WFBS 2x4 SP No.2 *Except* 7-8:2x6 SP No.2, 9-7:2x4 SP No.1

WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

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

Max Horiz 2=245 (LC 8)

Max Uplift 2=-1218 (LC 8), 8=-1520 (LC 9) Max Grav 2=2785 (LC 15), 8=4635 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-4127/1848, 3-4=-4287/1612.

4-5=-4291/1604, 5-6=-7677/2572,

6-7=-8154/2670. 7-8=-4049/1376

2-13=-1634/3485, 11-13=-1634/3485 10-11=-2124/6419, 9-10=-2728/8313,

8-9=-98/281

WFBS 3-13=-753/340, 3-11=-420/584,

4-11=-1601/4344, 5-11=-3695/1275, 5-10=-1127/3854, 6-10=-2586/826,

6-9=-2575/944, 7-9=-2864/8767

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

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1520 lb uplift at joint 8 and 1218 lb uplift at joint 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Use Simpson Strong-Tie HTU26-2 (20-10d Girder, 14-10d Truss) or equivalent at 5-4-9 from the left end to connect truss(es) to back face of bottom chord.
- 11) Use Simpson Strong-Tie HTU26 (20-10dx1 1/2 Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 7-3-13 from the left end to 20-7-3 to connect truss(es) to back face of bottom chord
- 12) 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: 1-4=-60, 4-6=-60, 6-7=-60, 8-14=-20

Concentrated Loads (lb)

Vert: 12=28 (B), 13=312 (B), 9=-871 (B), 17=-773 (B), 18=-939 (B), 19=-640 (B), 20=-871 (B), 21=-871 (B), 22=-871 (B)



June 6,2025

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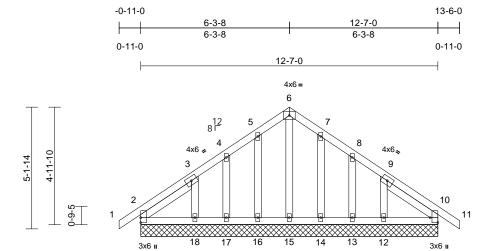


Job Truss Truss Type Qty Ply JSJ, Cypress Prime - Elev. A (4-16-25) 174008807 4703112 C01 Common Supported Gable Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:34 ID:oirqlGPxW5u3YDhGNl8WOazbz3u-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:48.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 83 lb	FT = 20%

12-7-0

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD OTHERS 2x4 SP No.3

Left 2x4 SP No.2 -- 2-7-13, Right 2x4 SP SLIDER

No.2 -- 2-7-13

BRACING TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins

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

bracing.

REACTIONS (size)

2=12-7-0, 10=12-7-0, 12=12-7-0, 13=12-7-0, 14=12-7-0, 15=12-7-0, 16=12-7-0, 17=12-7-0, 18=12-7-0

Max Horiz 2=160 (LC 11)

Max Grav

Max Uplift 2=-40 (LC 13), 10=-12 (LC 13), 12=-129 (LC 13), 13=-56 (LC 13), 14=-63 (LC 13), 16=-66 (LC 12),

17=-54 (LC 12), 18=-137 (LC 12) 2=165 (LC 20), 10=162 (LC 1),

12=189 (LC 20), 13=100 (LC 20), 14=127 (LC 20), 15=124 (LC 13), 16=131 (LC 19), 17=97 (LC 19),

18=199 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-107/53, 3-4=-94/92,

4-5=-110/123, 5-6=-152/164, 6-7=-152/164, 7-8=-110/114, 8-9=-71/62, 9-10=-103/51,

10-11=0/31

BOT CHORD 2-18=-57/109, 17-18=-57/109,

16-17=-57/109, 15-16=-57/109, 14-15=-57/109, 13-14=-57/109, 12-13=-57/109, 10-12=-57/109

WEBS 6-15=-115/72, 5-16=-103/81, 4-17=-97/78, 3-18=-173/140, 7-14=-103/77, 8-13=-98/79,

9-12=-175/133

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-11-0 to 2-3-8, Exterior (2) 2-3-8 to 6-3-8, Corner (3) 6-3-8 to 9-3-8, Exterior (2) 9-3-8 to 13-6-0 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2, 12 lb uplift at joint 10, 66 lb uplift at joint 16, 54 lb uplift at joint 17, 137 lb uplift at joint 18, 63 lb uplift at joint 14. 56 lb uplift at joint 13, 129 lb uplift at joint 12, 40 lb uplift at joint 2 and 12 lb uplift at joint 10.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 23.

LOAD CASE(S) Standard



June 6,2025

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Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	C02	Common	2	1	Job Reference (optional)	174008808

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:34

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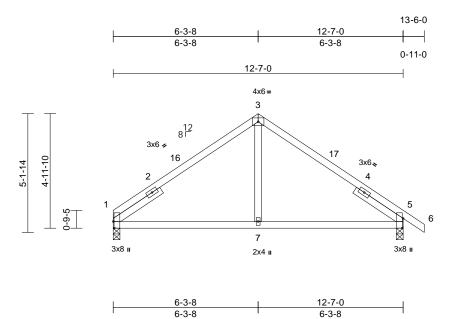


Plate Offsets (X, Y): [1:0-3-8,Edge], [5:0-5-2,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.05	7-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.08	7-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	-0.03	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.07	7-10	>999	240	Weight: 57 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 WEBS

SLIDER Left 2x4 SP No.2 -- 2-6-0, Right 2x4 SP No.2

-- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

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

Max Horiz 1=-153 (LC 8)

Max Uplift 1=-122 (LC 12), 5=-153 (LC 13)

Max Grav 1=501 (LC 1), 5=560 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-3=-528/201, 3-5=-524/198, 5-6=0/31

BOT CHORD 1-7=-281/409, 5-7=-188/409

WEBS 3-7=0/275

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-3-8, Exterior (2) 6-3-8 to 9-3-8, Interior (1) 9-3-8 to 13-6-0 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.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 1 and 153 lb uplift at joint 5.

LOAD CASE(S) Standard

June 6,2025



Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	C03	Roof Special	1	1	Job Reference (optional)	174008809

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:34 ID:5apKMHvfsh3EzWJ8HPO8YDzbz3F-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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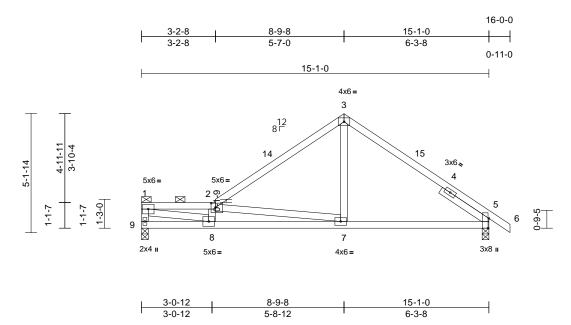


Plate Offsets (X, Y): [2:0-2-4,0-2-4], [5:0-5-2,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.06	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.14	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.08	7-8	>999	240	Weight: 74 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* 9-1:2x4 SP No.2 WEBS

SLIDER Right 2x4 SP No.2 -- 2-6-0

BRACING TOP CHORD

Structural wood sheathing directly applied or 5-8-3 oc purlins, except end verticals, and

2-0-0 oc purlins (4-7-9 max.): 1-2. Rigid ceiling directly applied or 8-1-3 oc

BOT CHORD bracing.

REACTIONS (size) 5=0-3-8, 9=0-3-8 Max Horiz 9=-150 (LC 8)

Max Uplift 5=-168 (LC 13), 9=-165 (LC 12)

Max Grav 5=654 (LC 1), 9=596 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-9=-532/178, 1-2=-1589/446, 2-3=-705/222,

3-5=-654/217, 5-6=0/31

8-9=-110/169, 7-8=-523/1655, 5-7=-190/512 BOT CHORD

WEBS 1-8=-421/1541, 2-8=-403/208, 2-7=-1157/454, 3-7=-26/405

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-2-8, Interior (1) 3-2-8 to 8-9-8, Exterior (2) 8-9-8 to 11-9-8, Interior (1) 11-9-8 to 16-0-0 zone; cantilever left and right exposed; end vertical 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 9 and 168 lb uplift at joint 5.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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ſ	Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
	4703112	C04	Roof Special	1	1	Job Reference (optional)	I74008810

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:35 ID:WFcAFZmC8V?9_RFoxp9nwCzbz28-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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6-3-8

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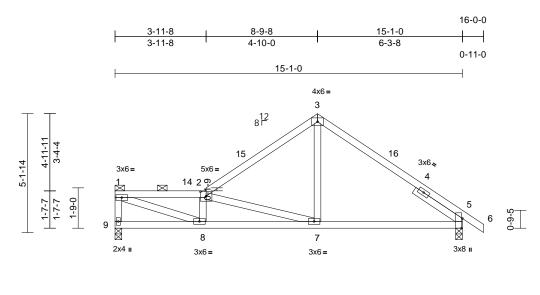


Plate Offsets (X, Y): [2:0-3-0,0-2-4], [5:0-5-2,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	0.07	7-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.08	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 76 lb	FT = 20%

8-9-8

4-11-12

LUMBER

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

2x4 SP No.3 *Except* 9-1:2x4 SP No.2 WEBS

SLIDER Right 2x4 SP No.2 -- 2-6-0

BRACING TOP CHORD

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

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

Rigid ceiling directly applied or 9-7-10 oc

BOT CHORD bracing

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

Max Horiz 9=-148 (LC 8)

Max Uplift 5=-167 (LC 13), 9=-167 (LC 12)

Max Grav 5=654 (LC 1), 9=596 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-9=-545/199, 1-2=-1215/343, 2-3=-686/228,

3-5=-637/215, 5-6=0/31 BOT CHORD

8-9=-108/146, 7-8=-373/1254, 5-7=-193/505 WEBS 1-8=-336/1227, 2-8=-370/192, 2-7=-778/315,

3-7=-42/407

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 8-9-8, Exterior (2) 8-9-8 to 11-9-8, Interior (1) 11-9-8 to 16-0-0 zone; cantilever left and right exposed; end vertical 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint 9 and 167 lb uplift at joint 5.
- 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

3-9-12

3-9-12

June 6,2025

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 a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	C05	Roof Special	1	1	Job Reference (optional)	I74008811

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:35 ID:tlTwRuEfyUwd9QkHjVMx?Qzbz1X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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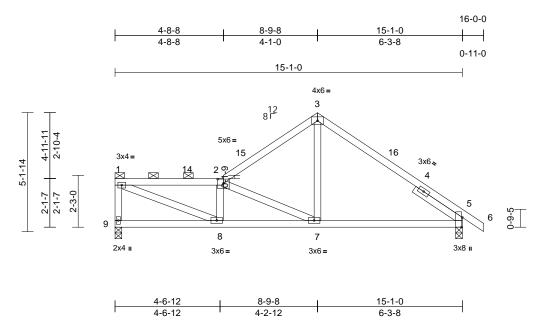


Plate Offsets (X, Y): [2:0-3-0,0-2-4], [5:0-5-2,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	0.07	7-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.08	7-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 78 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* 9-1:2x4 SP No.2 WEBS

SLIDER Right 2x4 SP No.2 -- 2-6-0

BRACING

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

2-0-0 oc purlins (5-4-6 max.): 1-2.

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

bracing.

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

Max Horiz 9=-162 (LC 13)

Max Uplift 5=-165 (LC 13), 9=-170 (LC 12)

Max Grav 5=654 (LC 1), 9=596 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-9=-543/212, 1-2=-1007/289, 2-3=-670/235,

3-5=-622/213, 5-6=0/31

BOT CHORD 8-9=-107/153, 7-8=-280/1032, 5-7=-195/501 WEBS

1-8=-288/1032, 2-8=-338/184, 2-7=-584/238,

3-7=-59/410

NOTES

FORCES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 8-9-8, Exterior (2) 8-9-8 to 11-9-8, Interior (1) 11-9-8 to 16-0-0 zone; cantilever left and right exposed; end vertical 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 170 lb uplift at joint 9 and 165 lb uplift at joint 5.
- 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 6,2025



Job Truss Truss Type Qty Ply JSJ, Cypress Prime - Elev. A (4-16-25) 174008812 3 4703112 C06 Roof Special Girder Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:35 ID:tHWmaWe_xxCpEfKqjezvObzbz1?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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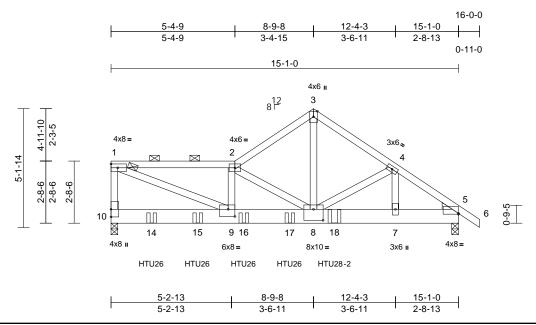


Plate Offsets (X, Y): [5:Edge,0-0-7], [8:0-5-0,0-5-12], [9:0-3-8,0-3-12]

Looding	(nof)	Chasina	2-0-0	CSI		DEFL	in	(100)	I/dofl	1./4	PLATES	GRIP
Loading	(psf)	Spacing	2-0-0	LOI		DELL	in	(loc)	l/defl	L/u	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.08	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.16	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.10	8-9	>999	240	Weight: 322 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x8 SP 2400F 2.0E or 2x8 SP DSS

2x4 SP No.2 WEBS Right: 2x4 SP No.3 WFDGF

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

bracing

REACTIONS (size) 5=0-3-8, 10=0-3-8 Max Horiz 10=-179 (LC 9)

Max Uplift 5=-1957 (LC 9), 10=-1959 (LC 8)

Max Grav 5=4743 (LC 1), 10=6177 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-10=-4453/1520, 1-2=-9890/3267, TOP CHORD

2-3=-6975/2823, 3-4=-6999/2842,

4-5=-6763/2859. 5-6=0/31

BOT CHORD 9-10=-149/323, 8-9=-3311/9971,

7-8=-2294/5525, 5-7=-2294/5525

1-9=-3469/10520, 2-9=-1254/1004,

3-8=-2984/7390, 2-8=-4985/1255, 4-7=-339/57, 4-8=-75/416

NOTES

WEBS

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

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

Bottom chords connected as follows: 2x8 - 4 rows staggered at 0-4-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1959 lb uplift at joint 10 and 1957 lb uplift at joint 5.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or
- 10) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-9-3 from the left end to 7-9-3 to connect truss(es) to back face of bottom chord.
- 11) Use Simpson Strong-Tie HTU28-2 (26-10d Girder, 26-10d Truss, Single Ply Girder) or equivalent at 9-8-7 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.

LOAD CASE(S) Standard

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

Vert: 1-2=-60, 2-3=-60, 3-6=-60, 10-11=-20

Concentrated Loads (lb)

Vert: 14=-1587 (B), 15=-1587 (B), 16=-1587 (B), 17=-1587 (B), 18=-3323 (B)



June 6,2025

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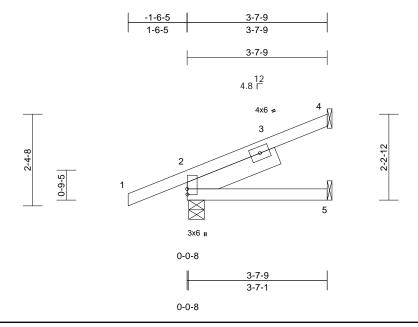
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	CJ1	Jack-Open Girder	1	1	Job Reference (optional)	174008813

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:35

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Scale = 1:29.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.01	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	5-8	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 20 lb	FT = 20%

LUMBER

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

Left 2x6 SP No.2 -- 2-6-0 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-7-9 oc purlins.

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

bracing.

REACTIONS (size) 2=0-4-13, 4= Mechanical, 5=

Mechanical Max Horiz 2=114 (LC 12)

2=-116 (LC 12), 4=-72 (LC 12), Max Uplift

5=-1 (LC 12)

Max Grav 2=154 (LC 1), 4=47 (LC 1), 5=44

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/34, 2-4=-101/105

BOT CHORD 2-5=-87/18

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 4, 116 lb uplift at joint 2 and 1 lb uplift at joint 5.

6) 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=-60

Trapezoidal Loads (lb/ft)

Vert: 2=0 (F=30, B=30)-to-7=-12 (F=24, B=24),

7=-12 (F=24, B=24)-to-3=-32 (F=14, B=14), 3=-32 (F=14, B=14)-to-4=-54 (F=3, B=3), 6=0 (F=10, B=10)-to-8=-4 (F=8, B=8), 8=-4 (F=8, B=8)-to-5=-18

(F=1, B=1)



June 6,2025

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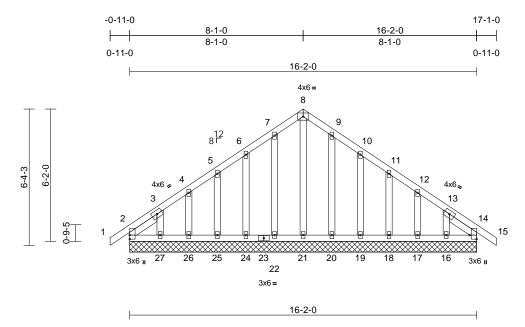
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Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	D01	Common Supported Gable	1	1	Job Reference (optional)	174008814

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:36 ID:D2_yPArfDYwZN_MWY0hHymzbyxa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:53.7

Plate Offsets ()	K, Y):	[14:Edge,	0-3-14]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 114 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3

SLIDER Left 2x4 SP No.2 -- 1-7-4, Right 2x4 SP No.2 -- 1-7-4

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins

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

bracing.

REACTIONS (size) 2=16-2-0, 14=16-2-0, 16=16-2-0, 17=16-2-0, 18=16-2-0, 19=16-2-0,

20=16-2-0, 21=16-2-0, 22=16-2-0, 24=16-2-0, 25=16-2-0, 26=16-2-0,

27=16-2-0

Max Horiz 2=200 (LC 11)

Max Uplift 2=-77 (LC 8), 14=-22 (LC 9),

16=-116 (LC 13), 17=-63 (LC 13), 18=-69 (LC 13), 19=-75 (LC 13), 20=-54 (LC 13), 22=-59 (LC 12),

24=-73 (LC 12), 25=-69 (LC 12), 26=-61 (LC 12), 27=-131 (LC 12)

Max Grav 2=170 (LC 20), 14=132 (LC 1), 16=132 (LC 20), 17=119 (LC 20)

18=121 (LC 20), 19=122 (LC 20), 20=121 (LC 20), 21=149 (LC 13), 22=126 (LC 19), 24=120 (LC 19),

25=121 (LC 19), 26=117 (LC 19), 27=149 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-49/52, 3-4=-125/120, 4-5=-108/104, 5-6=-94/119, 6-7=-125/154,

7-8=-162/187, 8-9=-162/187, 9-10=-125/142, 10-11=-78/86, 11-12=-49/41, 12-13=-60/50,

13-14=-33/35, 14-15=0/31

BOT CHORD 2-27=-92/146, 26-27=-92/146, 25-26=-92/146, 24-25=-92/146,

22-24=-92/146, 21-22=-92/146, 20-21=-92/146, 19-20=-92/146, 18-19=-92/146, 17-18=-92/146,

16-17=-92/146, 14-16=-92/146 8-21=-138/80, 7-22=-100/75, 6-24=-112/90,

5-25=-105/84, 4-26=-105/83, 3-27=-136/126, 9-20=-95/70, 10-19=-112/91, 11-18=-105/84,

12-17=-106/83. 13-16=-139/114

NOTES

WFBS

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-11-0 to 2-1-0. Exterior (2) 2-1-0 to 8-1-0, Corner (3) 8-1-0 to 11-1-0, Exterior (2) 11-1-0 to 17-1-0 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 2, 22 lb uplift at joint 14, 59 lb uplift at joint 22, 73 lb uplift at joint 24, 69 lb uplift at joint 25, 61 lb uplift at joint 26, 131 lb uplift at joint 27, 54 lb uplift at joint 20, 75 lb uplift at joint 19, 69 lb uplift at joint 18, 63 lb uplift at joint 17, 116 lb uplift at joint 16, 77 lb uplift at joint 2 and 22 lb uplift at joint 14.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 14.

LOAD CASE(S) Standard



June 6,2025

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Job Truss Truss Type Qty Ply JSJ, Cypress Prime - Elev. A (4-16-25) 174008815 3 4703112 D02 Common Girder Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:36 ID:Da1pYoF_D?CISCy2X9IFKxzbyx2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

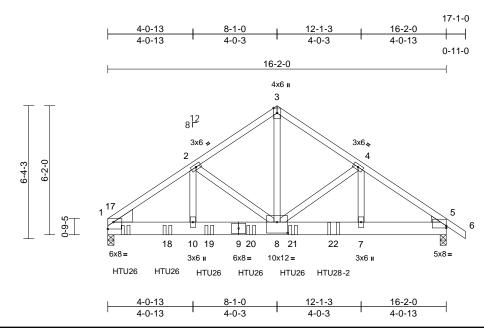


Plate Offsets (X, Y): [1:Edge,0-3-15], [5:Edge,0-1-3], [8:0-6-0,0-6-4]

								-	•			-
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.06	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.12	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.09	7-8	>999	240	Weight: 340 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x8 SP 2400F 2.0E or 2x8 SP DSS

2x4 SP No.2 WEBS

Left: 2x8 SP 2400F 2.0E or DSS WEDGE

Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins

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

bracing

REACTIONS (size) 1=0-3-8, 5=0-3-8 Max Horiz 1=-193 (LC 23)

Max Uplift 1=-2281 (LC 8), 5=-2206 (LC 9)

Max Grav 1=7338 (LC 1), 5=5361 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-8821/2826, 2-3=-6771/2527,

3-4=-6763/2523 4-5=-8288/3492 5-6=0/31 BOT CHORD

1-10=-2366/7293, 8-10=-2366/7293, 7-8=-2799/6794, 5-7=-2799/6794

WEBS 2-10=-346/2244, 2-8=-2132/501,

3-8=-2640/7155, 4-8=-1510/1182

4-7=-1158/1628

NOTES

- 3-ply truss to be connected together as follows: Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-4-0 oc. Bottom chords connected with 10d (0.148"x3") nails as follows: 2x8 - 3 rows staggered at 0-4-0 oc. Web chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2281 lb uplift at joint 1 and 2206 lb uplift at joint 5.
- Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-10-3 from the left end to 8-10-3 to connect truss(es) to front face of bottom chord.
- Use Simpson Strong-Tie HTU28-2 (26-16d Girder, 26-10d Truss, Single Ply Girder) or equivalent at 10-9-7 from the left end to connect truss(es) to front face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-6=-60, 11-14=-20 Concentrated Loads (lb)

Vert: 17=-1588 (F), 18=-1587 (F), 19=-1587 (F), 20=-1587 (F), 21=-1587 (F), 22=-3415 (F)



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

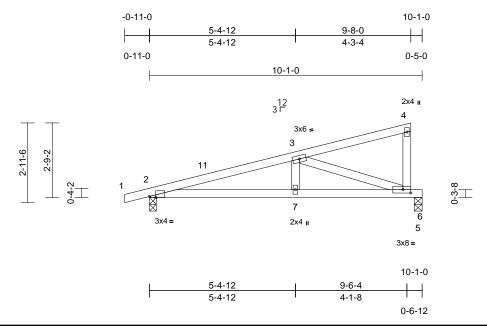
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	E01	Monopitch	3	1	Job Reference (optional)	174008816

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:36 ID:oG6K_SbF1rphFvxXJ1CdgBzbzyS-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	0.08	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.07	7-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 42 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* 6-4:2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-13 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 5-6-1 oc

bracing.

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

Max Horiz 2=140 (LC 8)

Max Uplift 2=-303 (LC 8), 5=-260 (LC 8) Max Grav 2=455 (LC 1), 5=370 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/13, 2-3=-865/988, 3-4=-89/53,

4-6=-92/93

BOT CHORD 2-7=-1054/822, 6-7=-1054/822, 5-6=0/0

WFBS 3-7=-335/230, 3-6=-812/1030

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 9-6-4 zone; cantilever left and right exposed; end vertical left exposed; porch 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.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 303 lb uplift at joint 2 and 260 lb uplift at joint 5.

LOAD CASE(S) Standard





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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

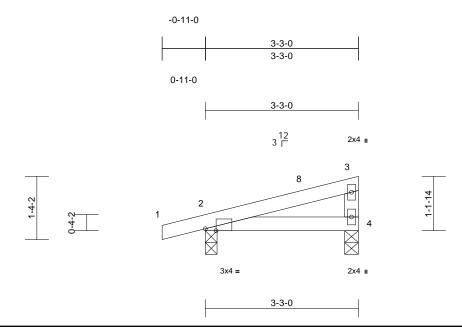
building design. Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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.sbcacomponents.com)



١	Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
	4703112	E02	Monopitch	1	1	Job Reference (optional)	174008817

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:36 $ID: uobYTzV6? OuNNAe57U4pdVzc_? A-RfC? PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? for all the properties of the properties$

Page: 1



Scale = 1:24.5

Plate Offsets	(X,	Y):	[2:0-2-	12,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

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

bracing.

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

Max Horiz 2=56 (LC 8)

Max Uplift 2=-137 (LC 8), 4=-80 (LC 8) Max Grav 2=187 (LC 1), 4=116 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/13, 2-3=-59/103, 3-4=-74/104

BOT CHORD 2-4=-120/60

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 3-1-4 zone; cantilever left and right exposed; end vertical left exposed; porch 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.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 4 and 137 lb uplift at joint 2.

LOAD CASE(S) Standard



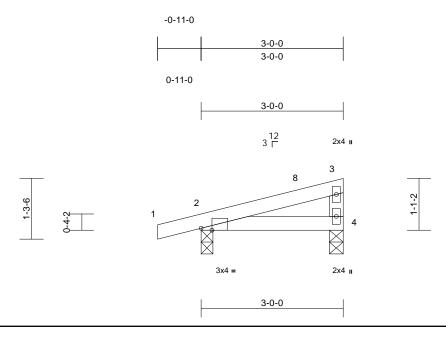
June 6,2025



Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	E03	Monopitch	1	1	Job Reference (optional)	174008818

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 13:38:37 ID:3Nise5DgQK_e6dOgH9AQBfzc_?X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:24.3

Plate Offsets	(X, Y):	[2:0-2-12	2,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	0.01	4-7	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 11 lb	FT = 20%

LUMBER

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

BRACING

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

bracing.

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

Max Horiz 2=53 (LC 8)

Max Uplift 2=-132 (LC 8), 4=-72 (LC 8) Max Grav 2=178 (LC 1), 4=105 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/13, 2-3=-51/91, 3-4=-67/95

BOT CHORD 2-4=-106/54

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 2-10-4 zone; cantilever left and right exposed; end vertical left exposed; porch 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 4 and 132 lb uplift at joint 2.

LOAD CASE(S) Standard

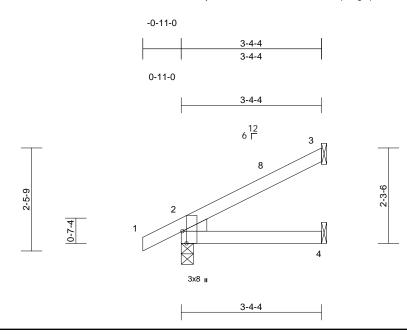




Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	JA1	Jack-Open	2	1	Job Reference (optional)	174008819

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 13:38:37 ID:4a1Zs949yFvA44ExEK1DKXzc_4t-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.01	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 Left: 2x4 SP No.3 WEDGE

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-4-4 oc purlins.

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

bracing.

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

Mechanical Max Horiz 2=106 (LC 12)

Max Uplift 2=-51 (LC 12), 3=-69 (LC 12), 4=-3

(LC 12)

2=194 (LC 1), 3=81 (LC 1), 4=59 Max Grav (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/25, 2-3=-63/34

BOT CHORD 2-4=-89/61

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 3-3-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 3, 51 lb uplift at joint 2 and 3 lb uplift at joint 4.

LOAD CASE(S) Standard



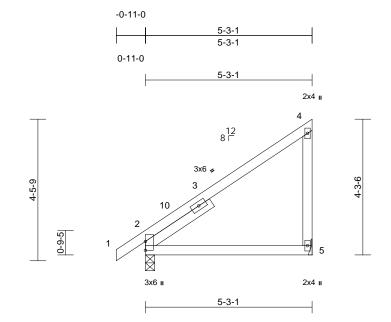
June 6,2025



Job	Truss	Truss Type Qty Ply JSJ, Cypress Prime - Elev. A (4-1		JSJ, Cypress Prime - Elev. A (4-16-25)		
4703112	JB1	Jack-Closed	37	1	Job Reference (optional)	174008820

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 13:38:37 ID:Jr8pusb7qSJ3lh1CGsIIZbzc_4C-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:36.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	0.07	5-8	>879	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.07	5-8	>901	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 28 lb	FT = 20%

LOAD CASE(S) Standard

LUMBER TOP CHORD

2x4 SP No.2

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

SLIDER Left 2x4 SP No.2 -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-3-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=205 (LC 12)

 $\begin{array}{lll} \text{Max Uplift} & 2 \text{=-}29 \text{ (LC 12)}, 5 \text{=-}145 \text{ (LC 12)} \\ \text{Max Grav} & 2 \text{=-}264 \text{ (LC 1)}, 5 \text{=-}230 \text{ (LC 19)} \\ \end{array}$

(lb) - Maximum Compression/Maximum

FORCES (lb) - Ma Tension

TOP CHORD 1-2=0/31, 2-4=-311/150, 4-5=-199/156

BOT CHORD 2-5=-280/250

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 5-1-5 zone; cantilever left and right exposed; end vertical left 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 5 and 29 lb uplift at joint 2.



June 6,2025

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

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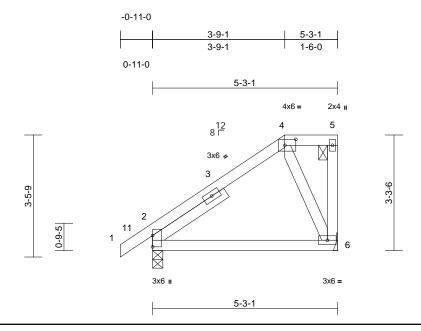
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	JB2	Jack-Closed	1	1	Job Reference (optional)	174008821

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries, Inc. Thu Jun 05 13:38:37 ID:g4T8WOswfD5yO3iRYUiTSEzc_3s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.02	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.05	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.03	6-9	>999	240	Weight: 31 lb	FT = 20%

LUMBER

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

2x4 SP No.2 *Except* 6-4:2x4 SP No.3 WEBS

SLIDER Left 2x4 SP No.2 -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-1 oc purlins, except end verticals, and

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

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

bracing.

REACTIONS (size) 2=0-3-8, 6= Mechanical Max Horiz 2=159 (LC 12)

Max Uplift 2=-55 (LC 12), 6=-88 (LC 12)

Max Grav 2=264 (LC 1), 6=199 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-4=-318/60, 4-5=0/0, 5-6=-41/47

BOT CHORD 2-6=-184/122 WEBS 4-6=-157/137

NOTES

FORCES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 3-9-1, Exterior (2) 3-9-1 to 5-1-5 zone; cantilever left and right exposed; end vertical left 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 2 and 88 lb uplift at joint 6.
- 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 6,2025

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

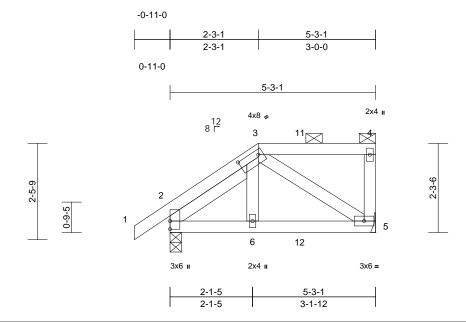
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	JB3	Jack-Closed Girder	1	1	Job Reference (optional)	174008822

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:37 ID:6RXF5on5uGSlo5dlAbW_k3zc_05-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29.5

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

-		ı	-	1	-							-
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.00	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.01	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.00	5-6	>999	240	Weight: 32 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* 4-5:2x4 SP No.2 WEBS

SLIDER Left 2x4 SP No.2 -- 2-5-3

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-3-1 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=0-3-8, 5= Mechanical

Max Horiz 2=107 (LC 25)

Max Uplift 2=-172 (LC 8), 5=-161 (LC 5)

Max Grav 2=306 (LC 1), 5=247 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/31, 2-3=-137/126, 3-4=-1/0, 4-5=-94/68

BOT CHORD 2-6=-165/181, 5-6=-164/174

WEBS 3-6=-12/153, 3-5=-212/200

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 172 lb uplift at joint 2 and 161 lb uplift at joint 5.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 114 lb down and 145 lb up at 2-3-1, and 39 lb down and 51 lb up at 3-3-13 on top chord, and 34 lb down and 34 lb up at 2-3-1, and 23 lb down and 15 lb up at 3-3-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-4=-60, 5-7=-20

Concentrated Loads (lb)

Vert: 3=-21 (B), 6=-24 (B), 11=-21 (B), 12=-23 (B)



June 6,2025

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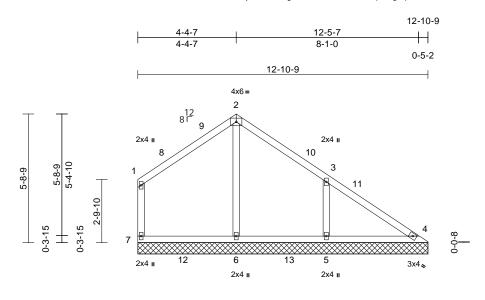
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	V01	Valley	1	1	Job Reference (optional)	174008823

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:37 ID:O23KCVbhj2835VDI7Fgr?UzbzxA-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 56 lb	FT = 20%

12-10-9

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS

BRACING

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

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

bracing.

REACTIONS (size) 4=12-10-9, 5=12-10-9, 6=12-10-9, 7=12-10-9

Max Horiz 7=-225 (LC 10)

Max Uplift 4=-51 (LC 9), 5=-253 (LC 13),

6=-15 (LC 8), 7=-108 (LC 12) 4=193 (LC 19), 5=445 (LC 20),

Max Grav 6=426 (LC 20), 7=238 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-7=-224/168, 1-2=-193/183, 2-3=-206/206, 3-4=-232/186

BOT CHORD 6-7=-152/203, 5-6=-152/203, 4-5=-152/203

WEBS 2-6=-227/80, 3-5=-371/295

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 4-4-7, Exterior (2) 4-4-7 to 7-4-7, Interior (1) 7-4-7 to 12-5-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 7, 51 lb uplift at joint 4, 15 lb uplift at joint 6 and 253 lb uplift at joint 5.

LOAD CASE(S) Standard



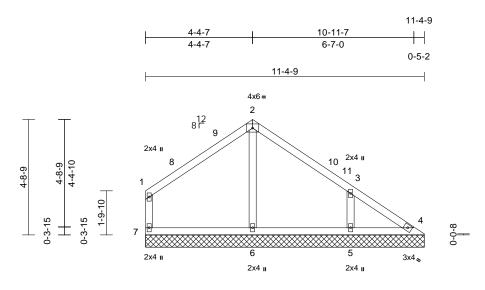
June 6,2025



Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	V02	Valley	1	1	Job Reference (optional)	174008824

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:38 ID:dn6k5aiKbpHnguP08eKysOzbzx1-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 47 lb	FT = 20%

11-4-9

LUMBER

2x4 SP No.2 TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS

BRACING

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

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

bracing.

REACTIONS (size) 4=11-4-9, 5=11-4-9, 6=11-4-9,

7=11-4-9 7=-174 (LC 8) Max Horiz

Max Uplift 4=-66 (LC 9), 5=-211 (LC 13), 6=-9

(LC 8), 7=-121 (LC 12)

4=148 (LC 19), 5=352 (LC 20), Max Grav 6=305 (LC 20), 7=227 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-7=-223/161, 1-2=-192/168, 2-3=-199/187,

3-4=-207/166

BOT CHORD 6-7=-128/173, 5-6=-128/173, 4-5=-128/173

WEBS 2-6=-217/66, 3-5=-311/250

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 4-4-7, Exterior (2) 4-4-7 to 7-4-7, Interior (1) 7-4-7 to 10-11-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 7, 66 lb uplift at joint 4, 9 lb uplift at joint 6 and 211 lb uplift at joint 5.

LOAD CASE(S) Standard



June 6,2025

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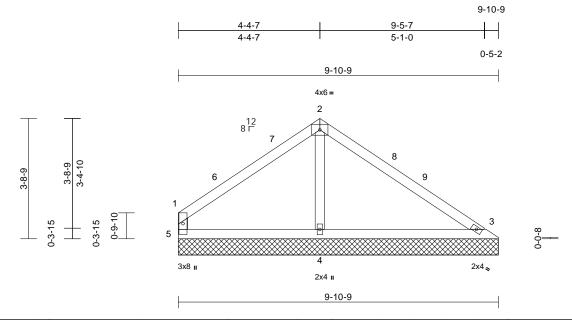
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Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	V03	Valley	1	1	Job Reference (optional)	174008825

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:38 ID:ouGuOLqE?BfDUak8IS1Xoizbzws-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 37 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS

BRACING

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

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

bracing.

(size) REACTIONS 3=9-10-9, 4=9-10-9, 5=9-10-9

Max Horiz 5=-123 (LC 10)

Max Uplift 3=-98 (LC 12), 4=-43 (LC 13), 5=-132 (LC 12)

Max Grav 3=227 (LC 1), 4=363 (LC 20),

5=230 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-5=-225/157, 1-2=-207/158, 2-3=-226/178

4-5=-113/164, 3-4=-113/164 **BOT CHORD**

WEBS 2-4=-234/92

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 4-4-7, Exterior (2) 4-4-7 to 7-4-7, Interior (1) 7-4-7 to 9-5-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 5, 98 lb uplift at joint 3 and 43 lb uplift at joint 4.

LOAD CASE(S) Standard



June 6,2025

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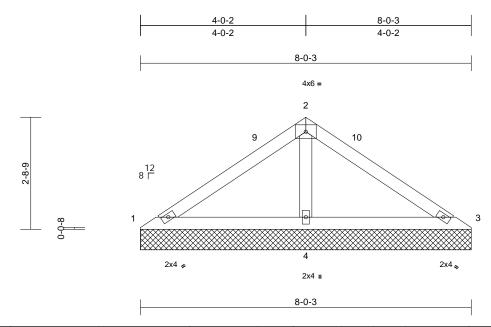
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Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	V04	Valley	1	1	Job Reference (optional)	174008826

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Scale = 1:27.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 28 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

8-0-3 oc purlins.

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

bracing.

REACTIONS (size) 1=8-0-3, 3=8-0-3, 4=8-0-3

Max Horiz 1=-85 (LC 8)

Max Uplift 1=-8 (LC 12), 3=-22 (LC 13), 4=-147 (LC 12)

1=79 (LC 23), 3=79 (LC 24), 4=537 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-82/224, 2-3=-81/220

BOT CHORD 1-4=-210/135, 3-4=-210/135

2-4=-421/208 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 4-0-14, Exterior (2) 4-0-14 to 7-2-2, Interior (1) 7-2-2 to 8-0-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1, 22 lb uplift at joint 3 and 147 lb uplift at joint 4.

LOAD CASE(S) Standard



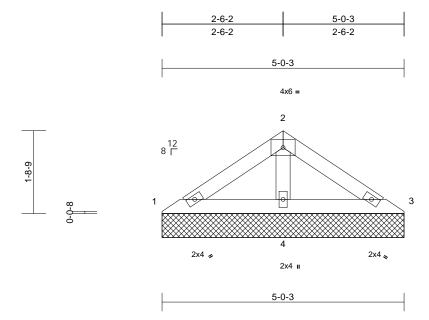
June 6,2025



Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	V05	Valley	1	1	Job Reference (optional)	174008827

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:38

Page: 1



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 16 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-3 oc purlins.

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

bracing.

REACTIONS (size) 1=5-0-3, 3=5-0-3, 4=5-0-3

Max Horiz 1=-51 (LC 10)

Max Uplift 1=-13 (LC 12), 3=-22 (LC 13),

4=-75 (LC 12)

1=64 (LC 23), 3=64 (LC 24), 4=297 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-61/103, 2-3=-61/97 **BOT CHORD** 1-4=-107/78, 3-4=-107/78

WEBS 2-4=-186/92

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1, 22 lb uplift at joint 3 and 75 lb uplift at joint 4.

LOAD CASE(S) Standard



June 6,2025

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

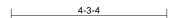
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

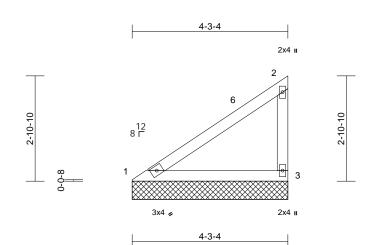
building design. Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	V06	Valley	1	1	Job Reference (optional)	174008828

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:39 ID: HMMhAV2WmjwgeL6bLEMmXVzbzwa-RfC? PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? fine the property of the propert Page: 1





Scale = 1:31.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 17 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

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

Max Horiz 1=130 (LC 9)

Max Uplift 1=-36 (LC 12), 3=-80 (LC 12) Max Grav 1=165 (LC 1), 3=193 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-230/133, 2-3=-174/136

BOT CHORD 1-3=-188/294

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 4-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 3 and 36 lb uplift at joint 1.

LOAD CASE(S) Standard



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

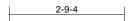
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

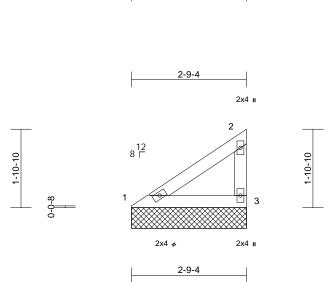


Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	V07	Valley	1	1	Job Reference (optional)	174008829

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:39 ID:2urjsE8XtAxXcak7pvVesBzbzwS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:27.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 10 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-9-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=2-9-4, 3=2-9-4

Max Horiz 1=79 (LC 9)

Max Uplift 1=-24 (LC 12), 3=-50 (LC 12) Max Grav 1=105 (LC 1), 3=122 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-133/80, 2-3=-105/79

BOT CHORD 1-3=-110/170

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 3 and 24 lb uplift at joint 1.

LOAD CASE(S) Standard

June 6,2025

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

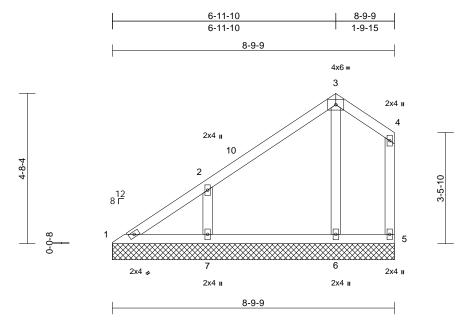
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	V08	Valley	1	1	Job Reference (optional)	174008830

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:39 ID:Hdt7IJFBmx3FBywsrl9lj4zbzwJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 41 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 1=8-9-9, 5=8-9-9, 6=8-9-9, 7=8-9-9

Max Horiz 1=207 (LC 9)

Max Uplift 1=-31 (LC 8), 5=-55 (LC 8), 6=-56

(LC 9), 7=-204 (LC 12) 1=126 (LC 20), 5=79 (LC 20), Max Grav 6=277 (LC 19), 7=371 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-219/229, 2-3=-149/116, 3-4=-118/136,

4-5=-102/103

BOT CHORD 1-7=-107/170, 6-7=-75/82, 5-6=-75/82 WEBS

3-6=-261/187, 2-7=-331/247

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-6, Interior (1) 3-0-6 to 7-0-6, Exterior (2) 7-0-6 to 8-8-9 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 5, 31 lb uplift at joint 1, 56 lb uplift at joint 6 and 204 lb uplift at joint 7.

LOAD CASE(S) Standard



June 6,2025

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

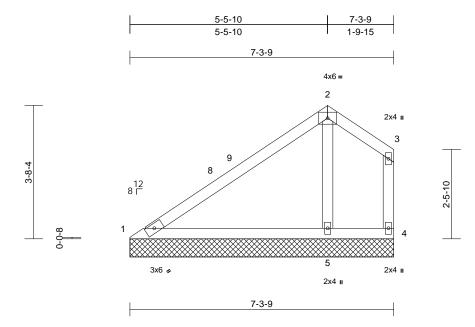
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Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	V09	Valley	1	1	Job Reference (optional)	174008831

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:39 ID:pirA6nSD?s4_6Q8xnfSVNSzbzw3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scal	le	=	1	1:31	.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 31 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS

BRACING

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

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

bracing.

REACTIONS (size) 1=7-3-9, 4=7-3-9, 5=7-3-9

Max Horiz 1=156 (LC 9)

Max Uplift 1=-34 (LC 12), 4=-118 (LC 19),

5=-173 (LC 12)

1=175 (LC 1), 4=64 (LC 9), 5=526 Max Grav

(LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-244/147, 2-3=-63/99, 3-4=-60/70

BOT CHORD 1-5=-164/299, 4-5=-75/68 **WEBS** 2-5=-366/233

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 5-6-6, Exterior (2) 5-6-6 to 7-2-9 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 4, 34 lb uplift at joint 1 and 173 lb uplift at joint 5.

LOAD CASE(S) Standard



June 6,2025

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

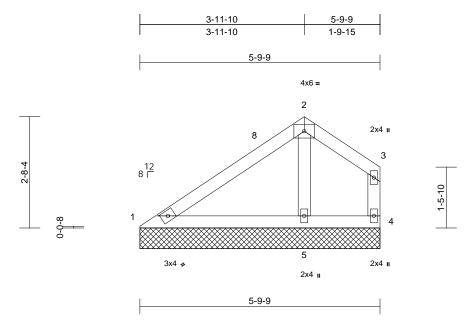
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Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	V10	Valley	1	1	Job Reference (optional)	174008832

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:39 ID:S0aidtblAYbHYG3FUBfJs_zbzvt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scal	le	=	1	:27	3.

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 23 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS

BRACING

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

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

bracing.

REACTIONS (size) 1=5-9-9, 4=5-9-9, 5=5-9-9

Max Horiz 1=105 (LC 9)

Max Uplift 1=-40 (LC 12), 4=-41 (LC 8), 5=-69

(LC 12)

1=143 (LC 23), 4=60 (LC 20), Max Grav

5=304 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-211/100, 2-3=-74/83, 3-4=-91/81

BOT CHORD 1-5=-134/227, 4-5=-30/33

WEBS 2-5=-165/102

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 4-0-6, Exterior (2) 4-0-6 to 5-8-9 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 4, 40 lb uplift at joint 1 and 69 lb uplift at joint 5.

LOAD CASE(S) Standard



June 6,2025

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



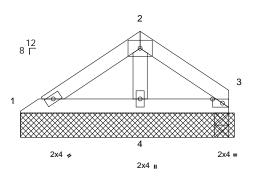
Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	V11	Valley	1	1	Job Reference (optional)	174008833

Run: 8.83 E. Feb. 1 2025 Print: 8.830 E Feb. 1 2025 MiTek Industries, Inc. Fri Jun 06 11:02:11 ID:HRTOSItAlcV0ooJfKWailrzbzvW-hfmJ5G1tXy?riLvnPNXcqdoS?pqZ1WC?ZZmN7pz9BQy



4-3-9

4x6 =



4-3-9



Page: 1

Scale = 1:23.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	4-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.00	4-8	>999	240	Weight: 15 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-3-9 oc purlins.

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

bracing.

REACTIONS (size) 1=4-4-15, 3=4-4-15, 4=4-4-15

Max Horiz 1=49 (LC 9)

Max Uplift 1=-17 (LC 13), 3=-26 (LC 13),

4=-76 (LC 12)

Max Grav 1=73 (LC 1), 3=61 (LC 24), 4=238

(LC 19)

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

(lb) or less except when shown.

FORCES NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 3, 1, 4, 3.





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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

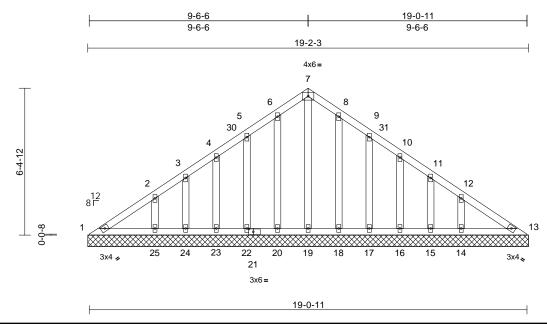
building design. Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	VA1	Valley	1	1	Job Reference (optional)	174008834

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:40 ID:67tWrQMGKvXLcxNLgvI4vHzbzuu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scal	e = 1	1:50	1.2
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Plate Offsets	(X,	Y):	[21:0-2-6,0-1-8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 117 lb	FT = 20%

LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 OTHERS **BRACING**

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins. Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size)

BOT CHORD

1=19-2-3, 13=19-2-3, 14=19-2-3, 15=19-2-3, 16=19-2-3, 17=19-2-3, 18=19-2-3, 19=19-2-3, 20=19-2-3, 22=19-2-3, 23=19-2-3, 24=19-2-3, 25=19-2-3

Max Horiz 1=208 (LC 9)

Max Uplift 1=-35 (LC 8), 14=-113 (LC 13), 15=-52 (LC 13), 16=-71 (LC 13),

17=-75 (LC 13), 18=-53 (LC 13), 20=-58 (LC 12), 22=-73 (LC 12), 23=-72 (LC 12), 24=-49 (LC 12),

25=-118 (LC 12)

Max Grav 1=117 (LC 20), 13=87 (LC 24),

14=248 (LC 20), 15=66 (LC 20), 16=133 (LC 20), 17=118 (LC 20), 18=125 (LC 20), 19=175 (LC 22), 20=131 (LC 19), 22=116 (LC 19),

23=133 (LC 19), 24=64 (LC 19), 25=254 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-180/182, 2-3=-123/136, 3-4=-94/126, 4-5=-78/128, 5-6=-95/163, 6-7=-134/185, 7-8=-134/175, 8-9=-95/127, 9-10=-49/80, 10-11=-14/63, 11-12=-47/63, 12-13=-126/123 BOT CHORD

1-25=-129/155, 24-25=-129/155, 23-24=-129/155, 22-23=-129/155, 20-22=-129/155, 19-20=-129/155, 18-19=-129/155, 17-18=-129/155, 16-17=-129/155, 15-16=-129/155, 14-15=-129/155, 13-14=-129/155 7-19=-148/51, 6-20=-104/74, 5-22=-110/90, 4-23=-109/86, 3-24=-80/72, 2-25=-174/120, 8-18=-98/69, 9-17=-110/92, 10-16=-109/85, 11-15=-80/73. 12-14=-174/118

NOTES

WFBS

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 2-11-2, Interior (1) 2-11-2 to 9-7-2, Exterior (2) 9-7-2 to 12-7-2, Interior (1) 12-7-2 to 19-2-3 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 1, 58 lb uplift at joint 20, 73 lb uplift at joint 22, 72 lb uplift at joint 23, 49 lb uplift at joint 24, 118 lb uplift at joint 25, 53 lb uplift at joint 18, 75 lb uplift at joint 17, 71 lb uplift at joint 16, 52 lb uplift at joint 15 and 113 lb uplift at joint 14.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 13.

LOAD CASE(S) Standard



June 6,2025

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

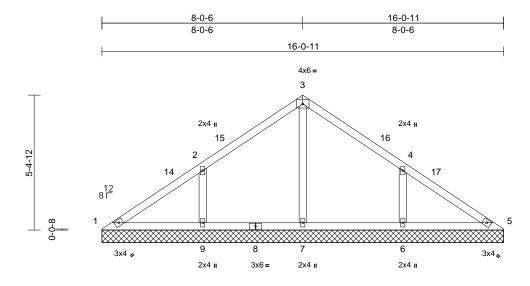
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	VA2	Valley	1	1	Job Reference (optional)	174008835

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:40 ID:q2UlxrUXzzowoU8GF0TRJOzbzuk-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 65 lb	FT = 20%

16-0-11

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=16-0-11, 5=16-0-11, 6=16-0-11, 7=16-0-11, 9=16-0-11

Max Horiz 1=-174 (LC 8)

Max Uplift 1=-23 (LC 13), 6=-237 (LC 13),

9=-240 (LC 12)

1=113 (LC 20), 5=101 (LC 24), Max Grav 6=423 (LC 20), 7=346 (LC 1),

9=426 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-151/207, 2-3=-51/162, 3-4=-51/141,

4-5=-119/155

BOT CHORD 1-9=-144/152, 7-9=-144/133, 6-7=-144/133,

5-6=-144/133

WEBS 3-7=-280/38, 2-9=-344/268, 4-6=-344/266

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 8-1-2, Exterior (2) 8-1-2 to 11-1-2, Interior (1) 11-1-2 to 16-1-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1, 240 lb uplift at joint 9 and 237 lb uplift at joint 6.

LOAD CASE(S) Standard



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

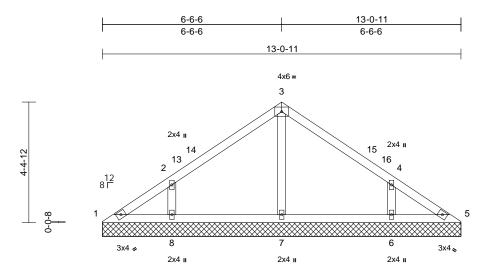
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	VA3	Valley	1	1	Job Reference (optional)	174008836

Run: 8.83 S May 29 2025 Print: 8.830 S May 29 2025 MiTek Industries. Inc. Thu Jun 05 13:38:40

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 50 lb	FT = 20%

13-0-11

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size)

1=13-0-11, 5=13-0-11, 6=13-0-11, 7=13-0-11, 8=13-0-11

Max Horiz 1=-141 (LC 8)

Max Uplift 1=-29 (LC 8), 5=-4 (LC 12), 6=-196

(LC 13), 8=-200 (LC 12)

Max Grav 1=98 (LC 20), 5=74 (LC 1), 6=350 (LC 20), 7=278 (LC 1), 8=353 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-134/121, 2-3=-123/132, 3-4=-123/117, 4-5=-96/67

1-8=-49/106, 7-8=-45/81, 6-7=-45/81,

5-6=-45/81 3-7=-195/33, 2-8=-310/246, 4-6=-310/244

BOT CHORD WEBS

- NOTES 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 6-7-2, Exterior (2) 6-7-2 to 9-7-2, Interior (1) 9-7-2 to 13-1-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 1, 4 lb uplift at joint 5, 200 lb uplift at joint 8 and 196 lb uplift at joint 6.

LOAD CASE(S) Standard



June 6,2025

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

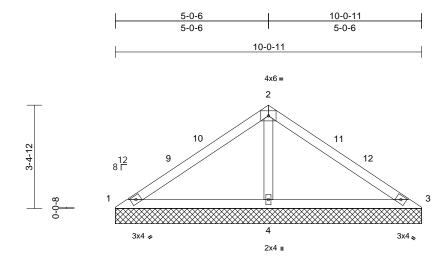
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Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	VA4	Valley	1	1	Job Reference (optional)	174008837

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Scale = 1:37.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 35 lb	FT = 20%

10-0-11

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=10-0-11, 3=10-0-11, 4=10-0-11

1=-107 (LC 8) Max Horiz

Max Uplift 1=-25 (LC 24), 3=-28 (LC 8),

4=-214 (LC 12)

1=75 (LC 23), 3=75 (LC 24), 4=737 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-133/337, 2-3=-132/337 1-4=-323/187, 3-4=-323/187

BOT CHORD WEBS 2-4=-612/286

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 5-1-2, Exterior (2) 5-1-2 to 8-1-2, Interior (1) 8-1-2 to 10-1-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1, 28 lb uplift at joint 3 and 214 lb uplift at joint 4.

LOAD CASE(S) Standard



June 6,2025

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

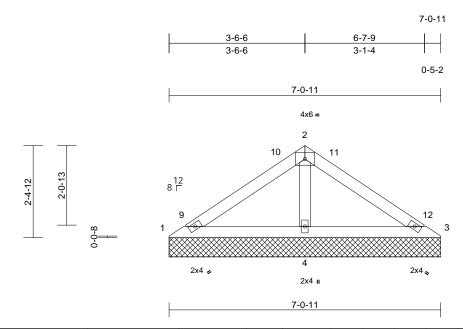
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Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	VA5	Valley	1	1	Job Reference (optional)	174008838

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Scale = 1:29.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 24 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

7-0-11 oc purlins.

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

bracing.

REACTIONS (size) 1=7-0-11, 3=7-0-11, 4=7-0-11

1=-74 (LC 8) Max Horiz

Max Uplift 1=-12 (LC 12), 3=-24 (LC 13),

4=-120 (LC 12)

1=77 (LC 23), 3=77 (LC 24), 4=452 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-76/178, 2-3=-76/174

BOT CHORD 1-4=-166/111, 3-4=-166/111 2-4=-341/172

WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 3-7-2, Exterior (2) 3-7-2 to 6-7-2, Interior (1) 6-7-2 to 7-1-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1, 24 lb uplift at joint 3 and 120 lb uplift at joint 4.

LOAD CASE(S) Standard



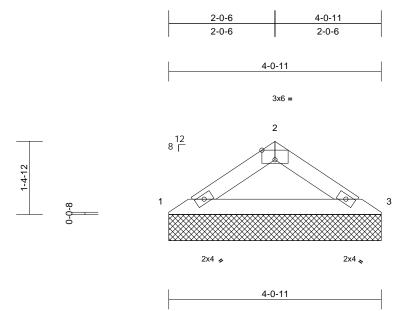
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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



Job	Truss	Truss Type	Qty	Ply	JSJ, Cypress Prime - Elev. A (4-16-25)	
4703112	VA6	Valley	1	1	Job Reference (optional)	174008839

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Scale = 1:22

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-0-11 oc purlins.

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

bracing.

REACTIONS (size) 1=4-0-11, 3=4-0-11

Max Horiz 1=-41 (LC 10)

Max Uplift 1=-42 (LC 12), 3=-42 (LC 13) Max Grav 1=162 (LC 1), 3=162 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-246/97, 2-3=-246/97

BOT CHORD 1-3=-67/202

NOTES

FORCES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) $Vasd=103mph;\ TCDL=6.0psf;\ BCDL=6.0psf;\ h=25ft;\ Cat.$ II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 6) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 1 and 42 lb uplift at joint 3.

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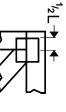
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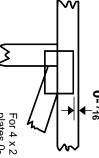


Symbols

PLATE LOCATION AND ORIENTATION



offsets are indicated and fully embed teeth Center plate on joint unless x, y Apply plates to both sides of truss Dimensions are in ft-in-sixteenths



edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

connector plates. required direction of slots in This symbol indicates the

* Plate location details available in MiTek software or upon request

PLATE SIZE

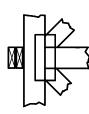
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



by text in the bracing section of the output. Use T or I bracing if indicated. ndicated by symbol shown and/or

BEARING



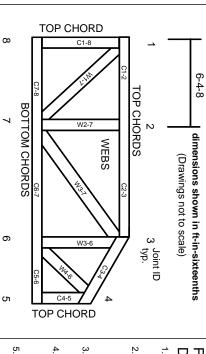
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

National Design Specification for Metal Plate Connected Wood Trusses Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-22: ANSI/TPI1:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

truss unless otherwise shown Trusses are designed for wind loads in the plane of the

established by others section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

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MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

'n

- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- œ Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.