

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

RE: 4703105 - JSJ, Pinewood - Elev. B (5-27-20)

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Project Customer: JSJ Builders Project Name:

Lot/Block: 100 Subdivision: DUCKS LANDING

Address:

City: Lillington State: NC

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:

Address:

City, County: State:

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

Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-10 Wind Code: ASCE 7-10

Wind Speed: 130 mph

Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 24 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Job ID#	Truss Nam	ne Date	No.	Seal#	Job ID#	Truss Nam	e Date
1	174979752	4703105	A01	7/18/25		174979775	4703105	V08	7/18/25
2 3	174979753 174979754	4703105 4703105	A02 A03	7/18/25					
	174979754	4703105	A03 A04	7/18/25 7/18/25					
5	174979756	4703105	B01	7/18/25					
4 5 6 7	174979757	4703105	B02	7/18/25					
	174979758 174979759	4703105 4703105	C01 D01	7/18/25 7/18/25					
8 9	174979760	4703105	БОТ	7/18/25					
10	174979761	4703105	D03	7/18/25					
11 12	174979762 174979763	4703105 4703105	E02	7/18/25 7/18/25					
13	174979764	4703105	G01	7/18/25 7/18/25					
14	174979765	4703105	G02	7/18/25					
16	174979766	4703105	G03	7/18/25					
16 17	174979767 174979768	4703105 4703105	G04 V01	7/18/25 7/18/25					
18 19	174979769	4703105	V02	7/18/25					
19	174979770	4703105	V03	7/18/25					
20 21	174979771 174979772	4703105 4703105	V04 V05	7/18/25 7/18/25					
22	174979773	4703105	V06	7/18/25					
23	174979774	4703105	V07	7/18/25					

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

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

July 18,2025

Gilbert, Eric



RE: \$JOBNAME - \$JOBDESC

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Project Customer: \$SI_CUSTOMER Project Name: \$SI_JOBNAME
Lot/Block: \$SI_LOTNUM Subdivision: \$SI_SUBDIV
Address: \$SI_SITEADDR

City, County: \$SI_SITECITY State: \$SI_SITESTATE



RE: \$JOBNAME - \$JOBDESC

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

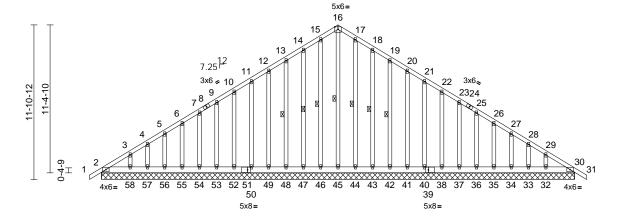
Project Customer: \$SI_CUSTOMER Project Name: \$SI_JOBNAME
Lot/Block: \$SI_LOTNUM Subdivision: \$SI_SUBDIV
Address: \$SI_SITEADDR

City, County: \$SI_SITECITY State: \$SI_SITESTATE

Job	Truss	Truss Type	Qty	Ply	JSJ, Pinewood - Elev. B (5-27-20)	
4703105	A01	Common Supported Gable	1	1	Job Reference (optional)	174979752

Run: 8.83 S Jun 11 2025 Print: 8.830 S Jun 11 2025 MiTek Industries, Inc. Thu Jul 17 10:15:52 ID:LSijGKaA4dkBzRl6t_7S2rzlGJ6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:88.7

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	0.10	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	0.15	Horz(CT)	0.01	30	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 362 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
OTHERS	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. WEBS

1 Row at midpt

16-45, 15-46, 14-47, 13-48, 17-44, 18-43,

19-42

REACTIONS (size) 2=36-5-0, 30=36-5-0, 32=36-5-0, 33=36-5-0, 34=36-5-0, 35=36-5-0, 36=36-5-0, 37=36-5-0, 38=36-5-0,

40=36-5-0, 41=36-5-0, 42=36-5-0, 43=36-5-0, 44=36-5-0, 45=36-5-0, 46=36-5-0, 47=36-5-0, 48=36-5-0,

49=36-5-0, 50=36-5-0, 52=36-5-0, 53=36-5-0. 54=36-5-0. 55=36-5-0. 56=36-5-0, 57=36-5-0, 58=36-5-0

Max Horiz 2=-386 (LC 10)

Max Uplift 2=-80 (LC 8), 30=-22 (LC 9),

32=-79 (LC 13), 33=-59 (LC 13), 34=-64 (LC 13), 35=-63 (LC 13), 36=-63 (LC 13), 37=-63 (LC 13),

38=-63 (LC 13), 40=-63 (LC 13), 41=-62 (LC 13), 42=-63 (LC 13),

43=-77 (LC 13), 44=-21 (LC 13), 45=-7 (LC 11), 46=-31 (LC 12),

47=-74 (LC 12), 48=-63 (LC 12), 49=-63 (LC 12), 50=-63 (LC 12),

52=-63 (LC 12), 53=-63 (LC 12), 54=-63 (LC 12), 55=-63 (LC 12), 56=-64 (LC 12), 57=-58 (LC 12),

58=-82 (LC 12)

Max Grav 2=193 (LC 20), 30=149 (LC 1), 32=175 (LC 20), 33=99 (LC 20),

36-5-0

34=124 (LC 20), 35=118 (LC 20), 36=119 (LC 20), 37=119 (LC 20), 38=119 (LC 20), 40=119 (LC 20), 41=119 (LC 20), 42=119 (LC 20),

43=122 (LC 20), 44=114 (LC 20), 45=248 (LC 13), 46=125 (LC 19), 47=119 (LC 19), 48=119 (LC 19), 49=119 (LC 19), 50=119 (LC 19),

52=119 (LC 19), 53=119 (LC 19), 54=119 (LC 19), 55=118 (LC 19), 56=124 (LC 19), 57=98 (LC 19),

58=178 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/28, 2-3=-360/269, 3-4=-304/245, 4-5=-257/229, 5-6=-227/211, 6-7=-199/193,

7-9=-183/178, 9-10=-169/174, 10-11=-155/188, 11-12=-142/215, 12-13=-178/243. 13-14=-217/271.

14-15=-261/309, 15-16=-280/332, 16-17=-280/332, 17-18=-261/309,

18-19=-217/256, 19-20=-178/209,

20-21=-140/163, 21-22=-101/117, 22-23=-65/86 23-25=-75/72 25-26=-94/84 26-27=-134/102. 27-28=-183/120.

28-29=-231/151, 29-30=-286/202,

30-31=0/28

BOT CHORD

2-58=-206/310, 57-58=-206/310, 56-57=-206/310, 55-56=-206/310, 54-55=-206/310, 53-54=-206/310, 52-53=-206/310, 50-52=-206/310,

49-50=-206/310, 48-49=-206/310, 47-48=-206/310, 46-47=-206/310, 45-46=-206/310, 44-45=-206/310,

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43-44=-206/310, 42-43=-206/310, 41-42=-206/310, 40-41=-206/310,

38-40=-206/310, 37-38=-206/310, 36-37=-206/310, 35-36=-206/310, 34-35=-206/310, 33-34=-206/310,

32-33=-206/310, 30-32=-206/310

SEAL

July 18,2025

Continued on page 2

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

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



Ply Qty Job Truss Truss Type JSJ, Pinewood - Elev. B (5-27-20) 174979752 4703105 A01 Common Supported Gable Job Reference (optional)

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

Run: 8.83 S Jun 11 2025 Print: 8.830 S Jun 11 2025 MiTek Industries, Inc. Thu Jul 17 10:15:52 ID:LSijGKaA4dkBzRl6t_7S2rzlGJ6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

WEBS 16-45=-244/167, 15-46=-98/47,

14-47=-113/90, 13-48=-101/79, 12-49=-101/79, 11-50=-101/79.

10-52=-101/79, 9-53=-101/79, 7-54=-101/79, 6-55=-101/79, 5-56=-102/79, 4-57=-96/76, 3-58=-125/90, 17-44=-87/37, 18-43=-113/93, 19-42=-101/79, 20-41=-101/78,

21-40=-101/79, 22-38=-101/79, 23-37=-101/79, 25-36=-101/79, 26-35=-101/79, 27-34=-102/79, 28-33=-96/77, 29-32=-125/89

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) 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 80 lb uplift at joint 2, 22 lb uplift at joint 30, 7 lb uplift at joint 45, 31 lb uplift at joint 46, 74 lb uplift at joint 47, 63 lb uplift at joint 48, 63 lb uplift at joint 49, 63 lb uplift at joint 50, 63 lb uplift at joint 52, 63 lb uplift at joint 53, 63 lb uplift at joint 54, 63 lb uplift at joint 55, 64 lb uplift at joint 56, 58 lb uplift at joint 57, 82 lb uplift at joint 58, 21 lb uplift at joint 44, 77 lb uplift at joint 43, 63 lb uplift at joint 42, 62 lb uplift at joint 41, 63 lb uplift at joint 40, 63 lb uplift at joint 38, 63 Ib uplift at joint 37, 63 lb uplift at joint 36, 63 lb uplift at joint 35, 64 lb uplift at joint 34, 59 lb uplift at joint 33 and 79 lb uplift at joint 32.

LOAD CASE(S) Standard

July 18,2025

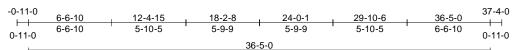
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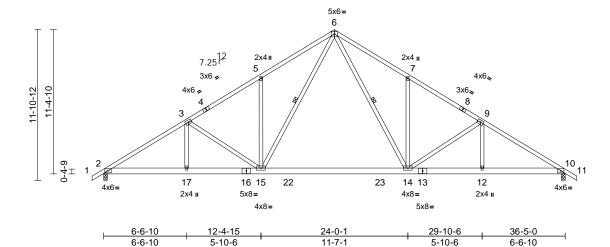


Job	Truss	Truss Type	Qty	Ply	JSJ, Pinewood - Elev. B (5-27-20)	
4703105	A02	Common	6	1	Job Reference (optional)	174979753

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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	0.46	Vert(LL)	-0.25	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.46	14-15	>941	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.14	14-15	>999	240	Weight: 240 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x6 SP No.2 **BOT CHORD** 2x4 SP No.3 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-3-1 oc purlins.

BOT CHORD Rigid ceiling directly applied or 8-11-2 oc

bracing.

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

REACTIONS (size) 2=0-3-8, 10=0-3-8 Max Horiz 2=-386 (LC 10)

Max Uplift 2=-403 (LC 12), 10=-403 (LC 13)

Max Grav 2=1538 (LC 19), 10=1538 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/28, 2-3=-2474/800, 3-5=-2066/721, 5-6=-2240/930, 6-7=-2240/930,

7-9=-2066/721, 9-10=-2473/800, 10-11=0/28

2-17=-642/2314, 15-17=-642/2314,

BOT CHORD 14-15=-154/1351. 12-14=-542/2037.

10-12=-542/2037

WEBS 5-15=-455/366, 6-15=-471/1180,

6-14=-470/1179, 7-14=-455/366,

3-15=-598/322, 3-17=0/217, 9-14=-598/323,

9-12=0/217

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) 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.

- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 403 lb uplift at joint 2 and 403 lb uplift at joint 10.

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.

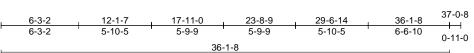
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

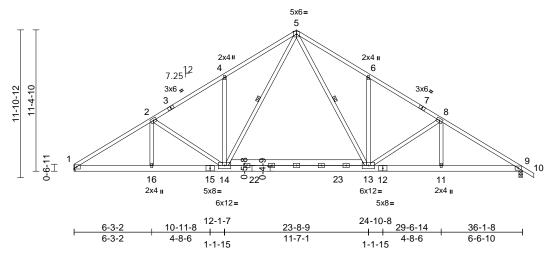
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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, Pinewood - Elev. B (5-27-20)	
4703105	A03	Common	10	1	Job Reference (optional)	174979754

Run: 8.83 S Jun 11 2025 Print: 8.830 S Jun 11 2025 MiTek Industries, Inc. Thu Jul 17 10:15:54 ID:ahoZiLUfX4MZ78oRvscV9mzIGQz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:92.8

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.14	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.28	13-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.57	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: 262 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x6 SP No.2 **BOT CHORD** 2x4 SP No.3 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-3-4 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 9-2-14 oc

bracing.

WEBS 5-14, 5-13 1 Row at midpt

REACTIONS 1= Mechanical, 9=0-3-8 (size) Max Horiz 1=-379 (LC 8)

Max Uplift 1=-367 (LC 12), 9=-401 (LC 13) Max Grav 1=1464 (LC 19), 9=1520 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-2351/766, 2-4=-2011/714, 4-5=-2189/924, 5-6=-2204/928,

6-8=-2029/719, 8-9=-2453/794, 9-10=0/28

1-16=-615/2202, 14-16=-615/2202, 13-14=-152/1308. 11-13=-537/2024.

9-11=-537/2024

WEBS 4-14=-461/368, 5-14=-465/1123,

5-13=-471/1149, 6-13=-456/366,

2-14=-516/296, 2-16=0/189, 8-13=-621/319,

8-11=0/254

NOTES

BOT 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) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 4x6 (=) MT20 unless otherwise indicated.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 367 lb uplift at joint 1 and 401 lb uplift at joint 9.

LOAD CASE(S) Standard

SEAL 036322

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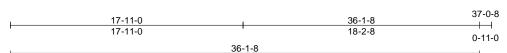
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

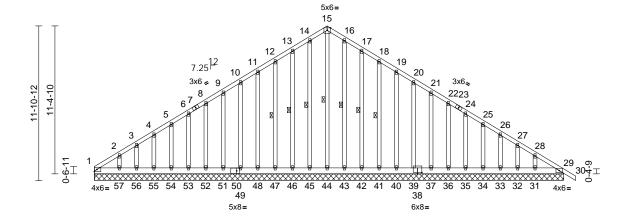
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	JSJ, Pinewood - Elev. B (5-27-20)	
4703105	A04	Common Supported Gable	1	1	Job Reference (optional)	174979755

Run: 8.83 S Jun 11 2025 Print: 8.830 S Jun 11 2025 MiTek Industries, Inc. Thu Jul 17 10:15:54 ID:f9FVanhtPuK8?annGJn0nFzIGHq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:88.7

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	29	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 359 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
OTHERS	2x4 SP No.3

BRACING

WFBS

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.

1 Row at midpt

12-47, 16-43, 17-42,

15-44, 14-45, 13-46, 12-47, 16-43, 17-42, 18-41

8-41

REACTIONS (size) 1=36-1-8, 29=36-1-8, 31=36-1-8, 32=36-1-8, 33=36-1-8, 34=36-1-8,

35=36-1-8, 36=36-1-8, 37=36-1-8, 39=36-1-8, 40=36-1-8, 41=36-1-8, 42=36-1-8, 43=36-1-8, 44=36-1-8,

45=36-1-8, 46=36-1-8, 47=36-1-8, 48=36-1-8, 49=36-1-8, 51=36-1-8,

52=36-1-8, 53=36-1-8, 54=36-1-8, 55=36-1-8, 56=36-1-8, 57=36-1-8

Max Horiz 1=-379 (LC 8)

Max Uplift 1=-115 (LC 10), 29=-22 (LC 9), 31=-79 (LC 13), 32=-59 (LC 13)

31=-79 (LC 13), 32=-59 (LC 13), 33=-64 (LC 13), 34=-63 (LC 13),

35=-63 (LC 13), 36=-63 (LC 13), 37=-63 (LC 13), 39=-63 (LC 13),

40=-62 (LC 13), 41=-63 (LC 13), 42=-77 (LC 13), 43=-21 (LC 13),

44=-8 (LC 11), 45=-31 (LC 12), 46=-74 (LC 12), 47=-63 (LC 12),

48=-63 (LC 12), 49=-63 (LC 12), 51=-63 (LC 12), 52=-63 (LC 12),

53=-63 (LC 12), 54=-61 (LC 12), 55=-70 (LC 12), 56=-35 (LC 12),

57=-143 (LC 12)

Max Grav 1=204 (LC 12), 29=149 (LC 1), 31=175 (LC 20), 32=99 (LC 20), 33=124 (LC 20), 34=118 (LC 20), 35=119 (LC 20), 36=119 (LC 20),

36-1-8

37=119 (LC 20), 39=119 (LC 20), 40=119 (LC 20), 41=119 (LC 20), 42=122 (LC 20), 43=114 (LC 20),

44=248 (LC 13), 45=125 (LC 19), 46=119 (LC 19), 47=119 (LC 19), 48=119 (LC 19), 49=119 (LC 19), 51=119 (LC 19), 52=119 (LC 19),

53=119 (LC 19), 54=117 (LC 19), 55=126 (LC 19), 56=90 (LC 19), 57=201 (LC 19)

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-363/2

1-2=-363/270, 2-3=-303/244, 3-4=-257/229, 4-5=-227/210, 5-6=-200/193, 6-8=-183/177, 8.0. 170/374, 0.10. 156/197

4-5=-22//210, 5-6=-200/193, 6-8=-183/17 8-9=-170/174, 9-10=-156/187, 10-11=-142/215, 11-12=-179/242,

12-13=-217/271, 13-14=-262/308, 14-15=-280/332, 15-16=-280/332,

16-17=-262/308, 17-18=-217/255, 18-19=-179/208, 19-20=-140/162, 20-24, 402/446, 24-22, 66/85

20-21=-102/116, 21-22=-66/85, 22-24=-76/72, 24-25=-95/84,

25-26=-134/101, 26-27=-183/119, 27-28=-231/151, 28-29=-287/201,

29-30=0/28

53-54=-206/311, 52-53=-206/311, 51-52=-206/311, 49-51=-206/311, 49-51=-206/311, 48-49=-206/311, 47-48=-206/311, 46-47=-206/311, 45-46=-206/311, 42-43=-206/311, 42-43=-206/311, 41-42=-206/311, 40-41=-206/311, 39-40=-206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-39--206/311, 37-206/311, 37-206/311, 37-206/311, 37-206/311, 37-206/311, 37-206/311, 37-206

BOT CHORD

40-41=-206/311, 39-40=-206/311, 37-39=-206/311, 36-37=-206/311, 35-36=-206/311, 34-35=-206/311, 33-34=-206/311, 32-33=-206/311, 31-32=-206/311, 29-31=-206/311

1-57=-206/311, 56-57=-206/311,

55-56=-206/311, 54-55=-206/311,

Page: 1

SEAL 036322

July 18,2025

Continued on page 2

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, Pinewood - Elev. B (5-27-20) 174979755 4703105 A04 Common Supported Gable Job Reference (optional)

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

Run: 8.83 S Jun 11 2025 Print: 8.830 S Jun 11 2025 MiTek Industries, Inc. Thu Jul 17 10:15:54 ID:f9FVanhtPuK8?annGJn0nFzIGHg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

WEBS 15-44=-244/167, 14-45=-98/47,

13-46=-113/90, 12-47=-101/79, 11-48=-101/79, 10-49=-101/79,

9-51=-101/79, 8-52=-101/79, 6-53=-101/79, 5-54=-101/79, 4-55=-102/80, 3-56=-95/73, 2-57=-123/99, 16-43=-87/37, 17-42=-113/93, 18-41=-101/79, 19-40=-101/78, 20-39=-101/79, 21-37=-101/79,

22-36=-101/79, 24-35=-101/79, 25-34=-101/79, 26-33=-102/79, 27-32=-96/77, 28-31=-125/89

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) 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 115 lb uplift at joint 1, 8 lb uplift at joint 44, 31 lb uplift at joint 45, 74 lb uplift at joint 46, 63 lb uplift at joint 47, 63 lb uplift at joint 48, 63 lb uplift at joint 49, 63 lb uplift at joint 51, 63 lb uplift at joint 52, 63 lb uplift at joint 53, 61 lb uplift at joint 54, 70 Ib uplift at joint 55, 35 lb uplift at joint 56, 143 lb uplift at joint 57, 21 lb uplift at joint 43, 77 lb uplift at joint 42, 63 Ib uplift at joint 41, 62 lb uplift at joint 40, 63 lb uplift at joint 39, 63 lb uplift at joint 37, 63 lb uplift at joint 36, 63 lb uplift at joint 35, 63 lb uplift at joint 34, 64 lb uplift at joint 33, 59 lb uplift at joint 32, 79 lb uplift at joint 31, 22 Ib uplift at joint 29 and 115 lb uplift at joint 1
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 58.

LOAD CASE(S) Standard



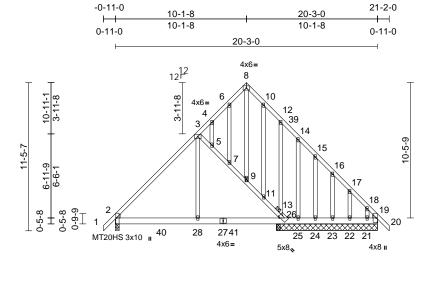
Job	Truss	Truss Type	Qty	Ply	JSJ, Pinewood - Elev. B (5-27-20)	
4703105	B01	Common Structural Gable	1	1	Job Reference (optional)	174979756

Run: 8.83 S. Jun 11 2025 Print: 8.830 S. Jun 11 2025 MiTek Industries. Inc. Thu Jul 17 10:15:54 ID:kOAQU7HwiFxfsJjp6NxcKGzIG06-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

20-3-0

7-6-0





Scale = 1:89

LUMBER

Plate Offsets (X, Y):	[2:0-5-8,Edge], [13:0-1-10,0-0-10]
-----------------------	------------------------------------

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	0.56	Vert(LL)	0.04	28-31	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.03	28-31	>999	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.22	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 187 lb	FT = 20%

12-9-0

6-4-8

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.3
	Right: 2x4 SP No.3

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

5-11-9 oc purlins.

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

bracing.

JOINTS 1 Brace at Jt(s): 9,

13

REACTIONS (size) 2=0-3-8, 19=7-9-8, 21=7-9-8,

22=7-9-8, 23=7-9-8, 24=7-9-8,

25=7-9-8, 26=7-9-8

Max Horiz 2=368 (LC 11)

Max Uplift 2=-72 (LC 12), 19=-60 (LC 9),

21=-291 (LC 13), 22=-90 (LC 13), 23=-122 (LC 13), 24=-62 (LC 13), 25=-268 (LC 12), 26=-124 (LC 13)

Max Grav 2=843 (LC 19), 19=629 (LC 22),

21=103 (LC 11), 22=140 (LC 20),

23=128 (LC 20), 24=137 (LC 20), 25=120 (LC 1), 26=719 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/39, 2-3=-869/134, 3-4=-413/75,

4-6=-342/87, 6-8=-294/122, 8-10=-311/122,

10-12=-349/71, 12-14=-332/37,

14-15=-379/34, 15-16=-431/44, 16-17=-484/71, 17-18=-535/151

18-19=-583/218, 19-20=0/39, 3-5=-584/326,

5-7=-630/338, 7-9=-722/395, 9-11=-618/347,

11-13=-720/390, 13-26=-450/867

BOT CHORD

6-4-8

6-4-8

2-28=-300/757, 26-28=-188/757, 25-26=-188/455, 24-25=-188/455, 23-24=-188/455, 22-23=-188/455, 21-22=-188/455, 19-21=-188/455

WEBS 8-9=-86/208, 6-7=-81/74, 4-5=-13/11, 10-11=-109/86, 12-13=-207/141,

14-25=-135/131, 15-24=-132/120, 16-23=-136/123, 17-22=-140/126,

18-21=-123/127, 3-28=0/329

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.

- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 2, 60 lb uplift at joint 19, 268 lb uplift at joint 25, 62 lb uplift at joint 24, 122 lb uplift at joint 23, 90 lb uplift at joint 22, 291 lb uplift at joint 21, 124 lb uplift at joint 26, 60 lb uplift at joint 19 and 124 lb uplift at joint 26.

- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-8=-96 (F=-36), 8-12=-96 (F=-36), 12-39=-90 (F=-30), 20-39=-60, 28-29=-20, 28-35=-26 (F=-6), 32-35=-20, 3-13=-36 (F), 13-37=30 (F)



July 18,2025

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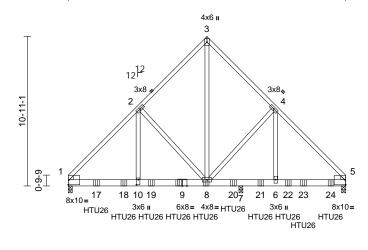


Job Truss Truss Type Qtv Ply JSJ. Pinewood - Elev. B (5-27-20) 174979757 3 4703105 B₀2 Common Girder Job Reference (optional)

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

Run: 8.83 S Jun 11 2025 Print: 8.830 S Jun 11 2025 MiTek Industries, Inc. Thu Jul 17 10:15:55 ID:9gFit8_77njPGX9Fl8A2LpzlGDP-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





10-1-8 12-7-4 15-1-13 20-3-0 5-1-3 5-0-5 2-5-12 2-6-9 5-1-3

Plate Offsets (X, Y): [1:Edge,0-4-7], [5:Edge,0-4-7], [10:0-4-8,0-1-8]

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	0.28	Vert(LL)	-0.07	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.15	8-10	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.08	8-10	>999	240	Weight: 428 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x6 SP No.2 *Except* 9-5:2x6 SP 2400F BOT CHORD

2 0F or 2x6 SP DSS

WFBS 2x4 SP No.2 WEDGE Left: 2x4 SP No.3 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, 7=0-3-8

Max Horiz 1=-338 (LC 6)

1=-1519 (LC 9), 5=-1548 (LC 9), Max Uplift

7=-1095 (LC 8)

Max Grav 1=5819 (LC 16), 5=5933 (LC 16).

7=4167 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-6495/1755, 2-3=-3640/1146,

3-4=-3651/1132, 4-5=-5150/1397 **BOT CHORD** 1-10=-1278/4697, 8-10=-1278/4697,

7-8=-903/3648, 6-7=-903/3648,

5-6=-903/3648

WEBS 2-10=-1007/3982, 2-8=-3093/1064,

3-8=-1418/4752, 4-8=-1786/728,

4-6=-564/2073

NOTES

TOP CHORD

1) 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: 2x6 - 2 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 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 and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1519 lb uplift at joint 1, 1548 lb uplift at joint 5 and 1095 lb uplift at joint
- Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 19-2-4 to connect truss(es) to back face of bottom chord.
- 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, 3-5=-60, 11-14=-20

Concentrated Loads (lb)

Vert: 9=-1424 (B), 8=-1424 (B), 17=-1424 (B), 18=-1424 (B), 19=-1424 (B), 20=-1424 (B), 21=-1424

(B), 22=-1424 (B), 23=-1424 (B), 24=-1424 (B)



Page: 1

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

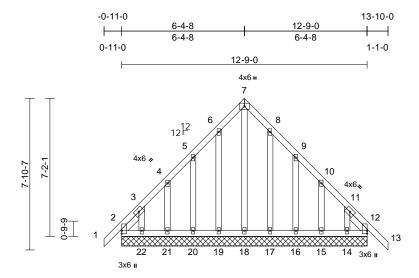
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Job Truss Truss Type Qty Ply JSJ. Pinewood - Elev. B (5-27-20) 174979758 4703105 C01 Common Supported Gable Job Reference (optional)

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

Run: 8.83 S Jun 11 2025 Print: 8.830 S Jun 11 2025 MiTek Industries, Inc. Thu Jul 17 10:15:55 ID:RaQVEDDXVwK6l5?BCUZpQ1zlGFh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:59.8

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 103 lb	FT = 20%

12-9-0

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-4-0, Right 2x4 SP No.2

-- 1-4-0 **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) 2=12-9-0, 12=12-9-0, 14=12-9-0, 15=12-9-0, 16=12-9-0, 17=12-9-0,

18=12-9-0, 19=12-9-0, 20=12-9-0, 21=12-9-0, 22=12-9-0

Max Horiz 2=-247 (LC 10)

Max Uplift 2=-116 (LC 10), 12=-60 (LC 9),

14=-165 (LC 13), 15=-104 (LC 13), 16=-117 (LC 13), 17=-88 (LC 13), 19=-92 (LC 12), 20=-116 (LC 12), 21=-102 (LC 12), 22=-189 (LC 12)

Max Grav 2=232 (LC 12), 12=192 (LC 22), 14=121 (LC 11), 15=134 (LC 20),

16=132 (LC 20), 17=131 (LC 20), 18=192 (LC 13), 19=137 (LC 19), 20=131 (LC 19), 21=132 (LC 19),

22=147 (LC 10)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/39. 2-3=-132/96. 3-4=-182/149.

4-5=-122/113, 5-6=-102/135, 6-7=-168/193, 7-8=-168/193, 8-9=-102/112, 9-10=-74/56,

10-11=-142/99, 11-12=-120/96, 12-13=0/46

2-22=-160/237, 21-22=-160/237, **BOT CHORD**

20-21=-160/237, 19-20=-160/237, 18-19=-160/237, 17-18=-160/237, 16-17=-160/237, 15-16=-160/237, 14-15=-160/237, 12-14=-160/237

WEBS

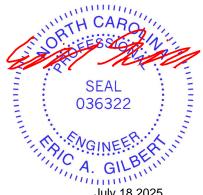
7-18=-198/131, 6-19=-122/109, 5-20=-147/131, 4-21=-141/124, 3-22=-173/173, 8-17=-122/104, 9-16=-147/132, 10-15=-141/125,

11-14=-181/156

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) 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 116 lb uplift at joint 2, 60 lb uplift at joint 12, 92 lb uplift at joint 19, 116 lb uplift at joint 20, 102 lb uplift at joint 21, 189 lb uplift at ioint 22, 88 lb uplift at ioint 17, 117 lb uplift at ioint 16. 104 lb uplift at joint 15, 165 lb uplift at joint 14, 116 lb uplift at joint 2 and 60 lb uplift at joint 12.

LOAD CASE(S) Standard



July 18,2025

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

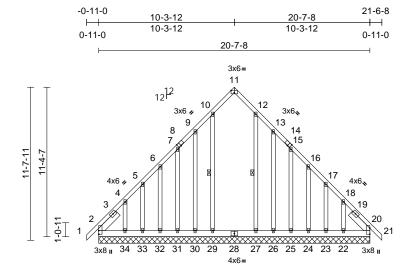
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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, Pinewood - Elev. B (5-27-20)	
4703105	D01	Common Supported Gable	1	1	Job Reference (optional)	174979759

Run: 8.83 S. Jun 11 2025 Print: 8.830 S. Jun 11 2025 MiTek Industries. Inc. Thu Jul 17 10:15:56 ID:78MHUDELUvZAWfoWrvobhWzIFyJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:87.6

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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 207 lb	FT = 20%

20-7-8

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 1-11-12, Right 2x6 SP
	No.2 1-11-12
BRACING	

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

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

WEBS 1 Row at midpt

REACTIONS (size) 2=20-7-8, 20=20-7-8, 22=20-7-8, 23=20-7-8, 24=20-7-8, 25=20-7-8, 26=20-7-8, 27=20-7-8, 29=20-7-8, 30=20-7-8, 31=20-7-8, 32=20-7-8, 33=20-7-8. 34=20-7-8

Max Horiz 2=-375 (LC 10)

Max Uplift 2=-148 (LC 10), 20=-134 (LC 11), 22=-389 (LC 13), 23=-14 (LC 13), 24=-129 (LC 13), 25=-98 (LC 13),

26=-143 (LC 13), 27=-41 (LC 13), 29=-52 (LC 12), 30=-139 (LC 12), 31=-98 (LC 12), 32=-129 (LC 12), 33=-13 (LC 12), 34=-393 (LC 12)

10-29, 12-27

Max Grav 2=519 (LC 12), 20=510 (LC 13), 22=237 (LC 11), 23=101 (LC 1), 24=136 (LC 20), 25=140 (LC 20), 26=92 (LC 11), 27=247 (LC 20), 29=259 (LC 19), 30=89 (LC 23),

31=140 (LC 19), 32=137 (LC 19), 33=101 (LC 1), 34=242 (LC 10)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/39, 2-4=-600/412, 4-5=-424/274 5-6=-345/211, 6-7=-244/132, 7-9=-154/85, 9-10=-123/66, 10-11=-104/82, 11-12=-104/82, 12-13=-109/51, 13-15=-148/71

15-16=-235/132, 16-17=-336/212, 17-18=-415/273, 18-20=-590/415, 20-21=0/39

BOT CHORD 2-34=-334/481, 33-34=-334/481, 32-33=-334/481, 31-32=-334/481,

30-31=-334/481, 29-30=-334/481, 27-29=-334/481, 26-27=-334/481, 25-26=-334/481, 24-25=-334/481, 23-24=-334/481, 22-23=-334/481,

20-22=-334/481 10-29=-131/87, 12-27=-119/76, 9-30=-158/145, 7-31=-134/121,

6-32=-138/127, 5-33=-115/96, 4-34=-226/237, 13-26=-158/149, 15-25=-134/121, 16-24=-139/126, 17-23=-115/96, 18-22=-227/236

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) 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 2, 134 lb uplift at joint 20, 52 lb uplift at joint 29, 41 lb uplift at joint 27, 139 lb uplift at joint 30, 98 lb uplift at joint 31, 129 lb uplift at joint 32, 13 lb uplift at joint 33, 393 lb uplift at joint 34, 143 lb uplift at joint 26, 98 lb uplift at joint 25, 129 lb uplift at joint 24, 14 lb uplift at joint 23. 389 lb uplift at joint 22, 148 lb uplift at joint 2 and 134 lb uplift at joint 20.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 35.

LOAD CASE(S) Standard



July 18,2025

FORCES

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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

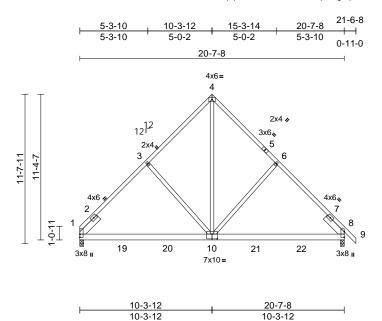
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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, Pinewood - Elev. B (5-27-20)	
4703105	D02	Common	2	1	Job Reference (optional)	174979760

Run: 8.83 S Jun 11 2025 Print: 8.830 S Jun 11 2025 MiTek Industries, Inc. Thu Jul 17 10:15:56 ID:LzihObuLO6inJIONOpqoDJzIG_1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:89.9

Plate Offsets (X, Y): [10:0-5-0,0-4-8]

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	0.39	Vert(LL)	-0.06	10-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.12	10-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.02	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.05	10-13	>999	240	Weight: 141 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3

SLIDER Left 2x6 SP No.2 -- 1-11-12, Right 2x6 SP

No.2 -- 1-11-12

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-6 oc purlins.

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

bracing.

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

Max Horiz 1=-364 (LC 8)

Max Uplift 1=-181 (LC 13), 8=-197 (LC 13)

Max Grav 1=851 (LC 20), 8=892 (LC 20) (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-3=-891/349, 3-4=-822/413, 4-6=-822/413,

6-8=-892/349, 8-9=0/39

BOT CHORD 1-8=-283/776

WEBS 4-10=-382/823, 3-10=-386/359,

6-10=-386/358

NOTES

FORCES

- 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
- 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 181 lb uplift at joint 1 and 197 lb uplift at joint 8.

LOAD CASE(S) Standard

July 18,2025

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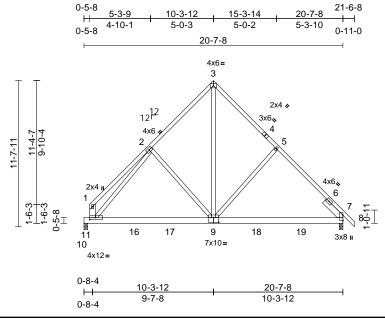
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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, Pinewood - Elev. B (5-27-20)	
4703105	D03	Common	1	1	Job Reference (optional)	174979761

Run: 8.83 S Jun 11 2025 Print: 8.830 S Jun 11 2025 MiTek Industries, Inc. Thu Jul 17 10:15:56 ID:8a57bX4JSwqTM9_wIY2TOnzlFvw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:91.8

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.07	9-14	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.13	9-14	>999	240	WITZO	244/100
BCLL	0.0*	Rep Stress Incr	YES	WB		Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.05	9-14	>999		Weight: 148 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* 10-1:2x6 SP No.2 WEBS

SLIDER Right 2x6 SP No.2 -- 1-11-12

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purlins, except end verticals. BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 7=0-3-8, 11=0-3-8

Max Horiz 11=-362 (LC 8)

Max Uplift 7=-195 (LC 13), 11=-173 (LC 13) Max Grav 7=882 (LC 20), 11=810 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-690/239, 2-3=-810/406, 3-5=-811/407,

5-7=-875/343, 7-8=0/39, 1-10=-563/222 10-11=-344/362, 7-10=-215/753

BOT CHORD WEBS 3-9=-373/805, 2-9=-367/361, 5-9=-386/358,

2-10=-283/156

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 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 173 lb uplift at joint 11 and 195 lb uplift at joint 7.

LOAD CASE(S) Standard

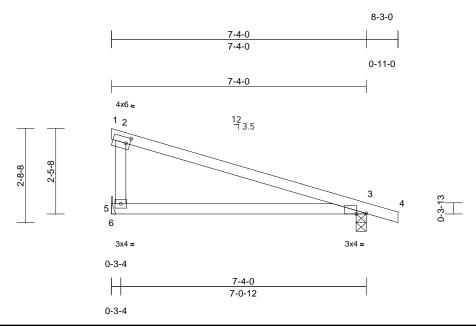
July 18,2025



Job	Truss	Truss Type	Qty	Ply	JSJ, Pinewood - Elev. B (5-27-20)	
4703105	E01	Roof Special	7	1	Job Reference (optional)	174979762

Run: 8.83 S Jun 11 2025 Print: 8.830 S Jun 11 2025 MiTek Industries, Inc. Thu Jul 17 10:15:56 ID: S4EAcQp0msrA08QPB46? gxzlFth-RfC? PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? full file of the control of the

Page: 1



Scale = 1:33.2

Plate Offsets (X, Y): [2:0-1-6,0-2-0], [3:0-3-7,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	0.54	Vert(LL)	-0.06	5-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.14	5-9	>591	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-MS		Wind(LL)	0.09	5-9	>961	240	Weight: 27 lb	FT = 20%

LOAD CASE(S) Standard

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

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

bracing.

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

Max Horiz 5=-130 (LC 9)

Max Uplift 3=-139 (LC 9), 5=-120 (LC 13) Max Grav 3=341 (LC 1), 5=290 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

2-5=-174/202, 1-2=-2/0, 2-3=-207/64,

TOP CHORD 3-4=0/15

BOT CHORD 5-6=0/0, 3-5=-56/169

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 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 120 lb uplift at joint 5 and 139 lb uplift at joint 3.



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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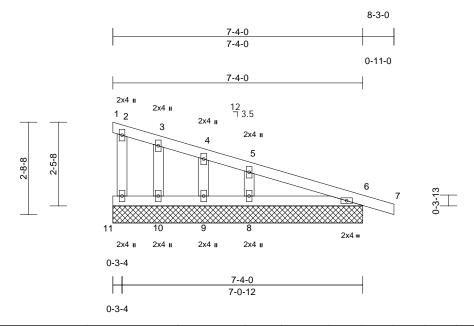
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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, Pinewood - Elev. B (5-27-20)	
4703105	E02	Roof Special Supported Gable	1	1	Joh Reference (optional)	174979763

Run: 8.83 S. Jun 11 2025 Print: 8.830 S. Jun 11 2025 MiTek Industries. Inc. Thu Jul 17 10:15:57 ID:PHxDkYSGI8XftHzaniZRK6zlFss-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = $1:33.8$	Scal	le	=	1	:33	3.
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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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 32 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 10-0-0 oc bracing.

REACTIONS (size) 1=7-4-0, 6=7-4-0, 8=7-4-0, 9=7-4-0,

10=7-4-0, 11=7-4-0 Max Horiz 1=-130 (LC 9)

Max Uplift 6=-113 (LC 9), 8=-101 (LC 13),

9=-22 (LC 9), 10=-50 (LC 13),

11=-20 (LC 9) 1=34 (LC 9), 6=174 (LC 1), 8=258

(LC 1), 9=37 (LC 1), 10=120 (LC

1), 11=38 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-11=-32/39, 1-2=-64/187, 2-3=-62/174, TOP CHORD

3-4=-49/144, 4-5=-48/122, 5-6=-56/73, 6-7=0/15

Max Grav

BOT CHORD 10-11=0/1, 9-10=0/1, 8-9=0/1, 6-8=-14/51 WFBS 3-10=-85/94 4-9=-44/62 5-8=-166/164

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 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.
- 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 113 lb uplift at joint 6, 20 lb uplift at joint 11, 50 lb uplift at joint 10, 22 lb uplift at joint 9, 101 lb uplift at joint 8 and 113 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.

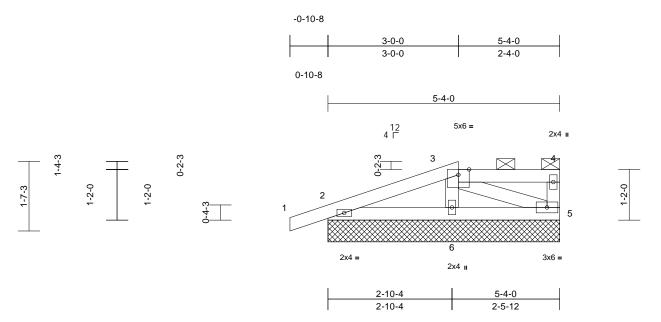
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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/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, Pinewood - Elev. B (5-27-20)	
4703105	G01	Half Hip Supported Gable	1	1	Job Reference (optional)	174979764

Run: 8.83 S Jun 11 2025 Print: 8.830 S Jun 11 2025 MiTek Industries, Inc. Thu Jul 17 10:15:57



Scale = 1:26.5

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 23 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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-4-0 oc purlins, except end verticals, and

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

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

bracing.

REACTIONS (size) 2=5-4-0, 5=5-4-0, 6=5-4-0

Max Horiz 2=63 (LC 8)

Max Uplift 2=-98 (LC 8), 5=-41 (LC 8), 6=-57 (LC 8)

2=175 (LC 1), 5=93 (LC 1), 6=199 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-48/11, 3-4=-2/4, 4-5=-66/76

BOT CHORD 2-6=-30/55, 5-6=-44/37 **WEBS** 3-6=-112/126, 3-5=-41/48

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 exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.

- 7) 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 98 lb uplift at joint 2, 57 lb uplift at joint 6, 41 lb uplift at joint 5 and 98 lb uplift at joint 2.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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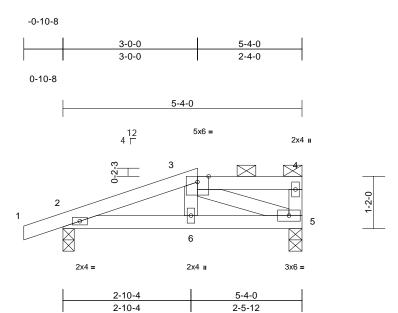
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Job	Truss	Truss Type	Qty	Ply	JSJ, Pinewood - Elev. B (5-27-20)	
4703105	G02	Half Hip	6	1	Job Reference (optional)	174979765

Run: 8.83 S. Jun 11 2025 Print: 8.830 S. Jun 11 2025 MiTek Industries. Inc. Thu Jul 17 10:15:57 ID:hE6RhKIA51wvsIYTDikEXTzIFmc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



1-7-3	1-4-3	1-2-0	1-2-0	0-2-3	0-4-3

Scale = 1:25.7

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	0.11	Vert(LL)	-0.01	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.02	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.01	6-9	>999	240	Weight: 23 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-4-0 oc purlins, except end verticals, and

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

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

bracing

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

Max Horiz 2=63 (LC 8) Max Uplift 2=-10 (LC 8)

Max Grav 2=477 (LC 1), 5=495 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension TOP CHORD 1-2=0/17, 2-3=-957/24, 3-4=-2/4, 4-5=-66/76

BOT CHORD 2-6=-48/903, 5-6=0/900

WFRS 3-5=-982/0, 3-6=-221/75

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) 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
- 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.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 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

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=-504



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818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	JSJ, Pinewood - Elev. B (5-27-20)	
4703105	G03	Half Hip	1	2	Job Reference (optional)	174979766

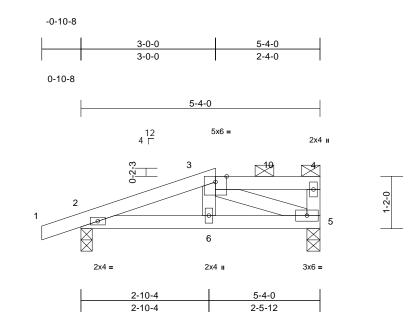
1-4-3

1-2-0

0-2-3

1-2-0

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Scale = 1:25.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.01	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.02	6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.01	6-9	>999	240	Weight: 46 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 3-4:2x4 SP No.1 TOP CHORD

BOT CHORD 2x4 SP No.2

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

BRACING TOP CHORD

Structural wood sheathing directly applied or 5-4-0 oc purlins, except end verticals, and

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

BOT CHORD

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

REACTIONS (size) 2=0-3-0, 5=0-3-8 Max Horiz 2=63 (LC 8)

Max Grav 2=835 (LC 1), 5=1976 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-2052/0, 3-4=-39/34,

4-5=-1055/0

2-6=0/1950, 5-6=0/1958

BOT CHORD

WEBS 3-5=-2138/0, 3-6=-268/28

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 2 rows staggered at 0-5-0 oc.
 - Bottom chords connected as follows: 2x4 1 row 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.

- 4) 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 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
- 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.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1630 lb down at 4-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-4=-156 (F=-96), 5-7=-20

Concentrated Loads (lb) Vert: 3=-504, 10=-1630 (F)

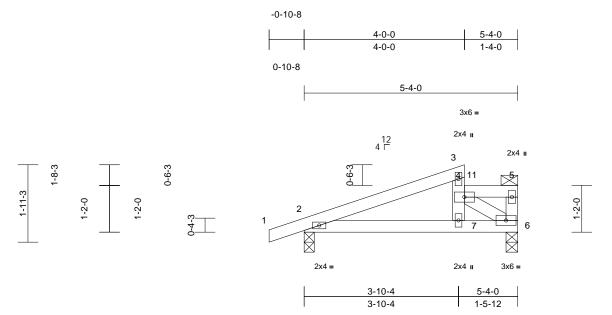


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Job	Truss	Truss Type	Qty	Ply	JSJ, Pinewood - Elev. B (5-27-20)	
4703105	G04	Half Hip	4	1	Job Reference (optional)	174979767

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Scale = 1:28.8

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	0.51	Vert(LL)	0.03	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.03	7-10	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 22 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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-4-0 oc purlins, except end verticals, and

2-0-0 oc purlins: 4-7, 4-5.

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

bracing

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

Max Horiz 2=104 (LC 12) Max Uplift 2=-94 (LC 8)

Max Grav 2=367 (LC 1), 6=633 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/17, 2-3=-495/73, 4-7=-265/106,

3-4=0/127, 4-5=0/0, 5-6=-173/0

2-7=-124/447, 6-7=-117/682 **BOT CHORD**

WEBS 4-6=-816/140

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) -0-10-8 to 5-2-4 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
- 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.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 532 lb down at 4-2-4 on top 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, 4-5=-60, 6-8=-20

Concentrated Loads (lb)

Vert: 11=-532 (F)



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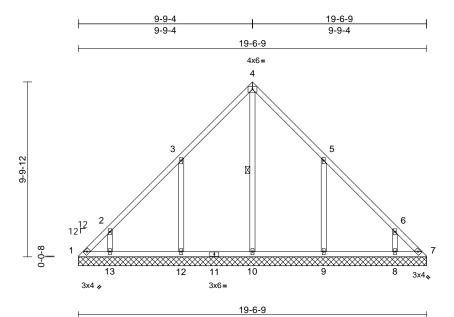
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Job	Truss	Truss Type	Qty	Ply	JSJ, Pinewood - Elev. B (5-27-20)	
4703105	V01	Valley	1	1	Job Reference (optional)	174979768

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Scale = 1:64.6

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	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horiz(TL)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 102 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

6-0-0 oc purlins.

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

bracing.

WEBS 1 Row at midpt 4-10 1=19-6-9, 7=19-6-9, 8=19-6-9,

REACTIONS (size)

9=19-6-9, 10=19-6-9, 12=19-6-9,

13=19-6-9 Max Horiz 1=-321 (LC 8)

Max Uplift 1=-153 (LC 10), 7=-77 (LC 11), 8=-203 (LC 13), 9=-363 (LC 13),

12=-362 (LC 12), 13=-216 (LC 12) 1=247 (LC 12), 7=196 (LC 13),

8=295 (LC 20), 9=491 (LC 20), 10=426 (LC 22), 12=490 (LC 19),

13=310 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

Max Grav

TOP CHORD 1-2=-417/275, 2-3=-251/200, 3-4=-258/262, 4-5=-258/252, 5-6=-190/119, 6-7=-359/234

BOT CHORD 1-13=-159/270, 12-13=-159/270, 10-12=-159/270. 9-10=-159/270.

8-9=-159/270, 7-8=-159/270 WEBS 4-10=-210/102, 3-12=-443/408,

2-13=-332/296, 5-9=-443/408, 6-8=-332/292

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

- 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.
- All plates are 2x4 (||) MT20 unless otherwise indicated. 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 7) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 1, 77 lb uplift at joint 7, 362 lb uplift at joint 12, 216 lb uplift at joint 13, 363 lb uplift at joint 9 and 203 lb uplift at joint 8.

LOAD CASE(S) Standard



July 18,2025

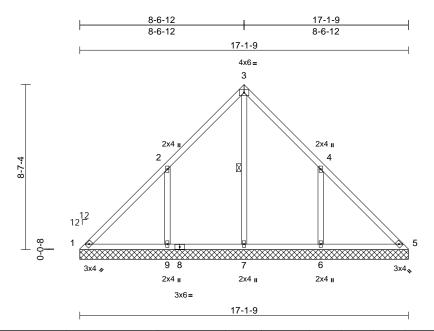
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Job	Truss	Truss Type	Qty	Ply	JSJ, Pinewood - Elev. B (5-27-20)	
4703105	V02	Valley	1	1	Job Reference (optional)	174979769

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Scal	_ ما	. 1.6	Λ

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	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 84 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 10-0-0 oc purlins.

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

bracing.

WEBS 1 Row at midpt

REACTIONS (size) 1=17-1-9, 5=17-1-9, 6=17-1-9,

7=17-1-9, 9=17-1-9 1=-280 (LC 8) Max Horiz

Max Uplift 1=-67 (LC 10), 5=-2 (LC 11),

6=-391 (LC 13), 9=-397 (LC 12) 1=170 (LC 21), 5=137 (LC 22),

3-7

Max Grav 6=551 (LC 20), 7=481 (LC 19),

9=558 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=-293/288, 2-3=-90/176, 3-4=-74/139,

4-5=-235/256

1-9=-244/271, 7-9=-244/271, 6-7=-244/271,

3-7=-296/0, 2-9=-466/416, 4-6=-466/413

WEBS NOTES

BOT 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) 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 67 lb uplift at joint 1, 2 lb uplift at joint 5, 397 lb uplift at joint 9 and 391 lb uplift at joint 6.

LOAD CASE(S) Standard



July 18,2025

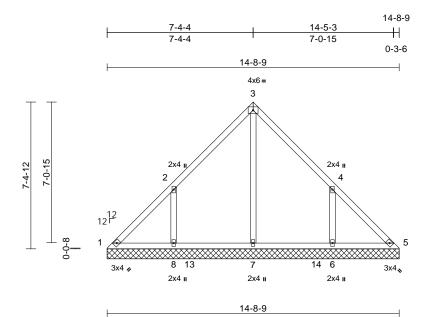
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	JSJ, Pinewood - Elev. B (5-27-20)	
4703105	V03	Valley	1	1	Job Reference (optional)	174979770

Run: 8.83 S. Jun 11 2025 Print: 8.830 S. Jun 11 2025 MiTek Industries. Inc. Thu Jul 17 10:15:58 ID:DH5Pocw_OyL1rVUGZmXw2azIGI3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:58

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	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 70 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

6-0-0 oc purlins. BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size)

1=14-8-9, 5=14-8-9, 6=14-8-9, 7=14-8-9, 8=14-8-9

Max Horiz 1=-240 (LC 8)

Max Uplift 1=-68 (LC 8), 5=-12 (LC 9), 6=-329

(LC 13), 8=-335 (LC 12) 1=167 (LC 20), 5=127 (LC 22), Max Grav 6=454 (LC 20), 7=404 (LC 19),

8=461 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-232/214, 2-3=-148/182, 3-4=-143/160, 4-5=-184/147

1-8=-141/199, 7-8=-141/199, 6-7=-141/199,

5-6=-141/199 **WEBS** 3-7=-205/0, 2-8=-411/367, 4-6=-411/364

NOTES

BOT CHORD

- 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 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 68 lb uplift at joint 1, 12 lb uplift at joint 5, 335 lb uplift at joint 8 and 329 lb uplift at joint 6.

LOAD CASE(S) Standard

July 18,2025

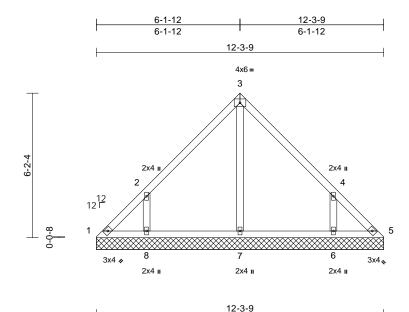
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Job	Truss	Truss Type	Qty	Ply	JSJ, Pinewood - Elev. B (5-27-20)	
4703105	V04	Valley	1	1	Job Reference (optional)	174979771

Run: 8.83 S. Jun 11 2025 Print: 8.830 S. Jun 11 2025 MiTek Industries. Inc. Thu Jul 17 10:15:58 ID:ikBCam8H9UcT?GskdYs8mNzIGkn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:49.3

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	0.22	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	0.11	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 56 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

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=12-3-9, 5=12-3-9, 6=12-3-9, 7=12-3-9, 8=12-3-9

Max Horiz 1=-200 (LC 8)

Max Uplift 1=-75 (LC 8), 5=-27 (LC 9), 6=-285

(LC 13), 8=-293 (LC 12) 1=142 (LC 20), 5=109 (LC 22), Max Grav

6=366 (LC 20), 7=232 (LC 19), 8=374 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-214/176, 2-3=-176/171, 3-4=-175/159,

4-5=-176/119

BOT CHORD 1-8=-79/143, 7-8=-72/143, 6-7=-72/143,

5-6=-72/143

WEBS 3-7=-148/3, 2-8=-393/355, 4-6=-393/352

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.
- 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 75 lb uplift at joint 1, 27 lb uplift at joint 5, 293 lb uplift at joint 8 and 285 lb uplift at joint 6.

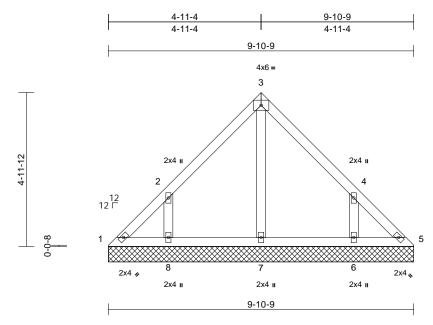
LOAD CASE(S) Standard

July 18,2025

Job	Truss	Truss Type	Qty	Ply	JSJ, Pinewood - Elev. B (5-27-20)	
4703105	V05	Valley	1	1	Job Reference (optional)	174979772

Run: 8.83 S. Jun 11 2025 Print: 8.830 S. Jun 11 2025 MiTek Industries. Inc. Thu Jul 17 10:15:59 ID:Pfo_gBGYoZt3CpdfCf1UAUzlGkd-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:37.3

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	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 45 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

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=9-10-9, 5=9-10-9, 6=9-10-9,

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

Max Horiz 1=-159 (LC 8)

Max Uplift 1=-53 (LC 8), 5=-13 (LC 9), 6=-216

(LC 13), 8=-223 (LC 12) 1=116 (LC 20), 5=87 (LC 19), Max Grav 6=284 (LC 20), 7=181 (LC 19),

8=292 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-157/137, 2-3=-129/131, 3-4=-129/124,

4-5=-126/91

BOT CHORD 1-8=-68/120, 7-8=-68/120, 6-7=-68/120,

5-6=-68/120

WEBS 3-7=-121/2, 2-8=-297/260, 4-6=-297/259

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.
- 4) Gable requires continuous bottom chord bearing.

- Gable studs spaced at 3-0-0 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 53 lb uplift at joint 1, 13 lb uplift at joint 5, 223 lb uplift at joint 8 and 216 lb uplift at joint 6.

LOAD CASE(S) Standard



July 18,2025

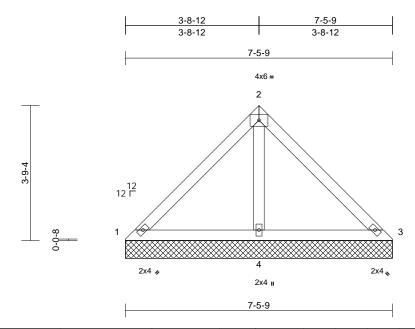
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Job	Truss	Truss Type	Qty	Ply	JSJ, Pinewood - Elev. B (5-27-20)	
4703105	V06	Valley	1	1	Job Reference (optional)	174979773

Run: 8.83 S Jun 11 2025 Print: 8.830 S Jun 11 2025 MiTek Industries, Inc. Thu Jul 17 10:15:59 ID:6bOmmcNqRe7ePLOaolDqabzIGkT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:32.2

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	0.16	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	0.10	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 30 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

7-5-9 oc purlins.

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

bracing.

REACTIONS (size) 1=7-5-9, 3=7-5-9, 4=7-5-9

Max Horiz 1=119 (LC 11)

Max Uplift 3=-1 (LC 8), 4=-183 (LC 12) Max Grav

1=80 (LC 23), 3=80 (LC 24), 4=479

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-92/188, 2-3=-83/168

BOT CHORD 1-4=-182/161, 3-4=-182/161

WFBS 2-4=-400/234

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) 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 1 lb uplift at joint 3 and 183 lb uplift at joint 4.

LOAD CASE(S) Standard

July 18,2025

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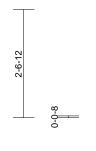


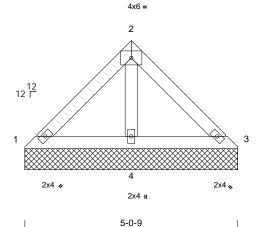
Job	Truss	Truss Type	Qty	Ply	JSJ, Pinewood - Elev. B (5-27-20)	
4703105	V07	Valley	1	1	Job Reference (optional)	174979774

Run: 8.83 S. Jun 11 2025 Print: 8.830 S. Jun 11 2025 MiTek Industries. Inc. Thu Jul 17 10:15:59 ID:LJRAfgUTJPGM_jalq8txSUzlGkK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

2-6-4	5-0-9	
2-6-4	2-6-4	
5-0)-9	- 1





Scale = 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	0.08	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	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 20 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

5-0-9 oc purlins.

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

bracing.

REACTIONS (size) 1=5-0-9, 3=5-0-9, 4=5-0-9

1=-79 (LC 10) Max Horiz

Max Uplift 1=-2 (LC 13), 3=-6 (LC 13), 4=-106

(LC 12)

1=65 (LC 23), 3=65 (LC 24), 4=296 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-53/99, 2-3=-53/83 **BOT CHORD**

1-4=-113/107, 3-4=-113/107

2-4=-202/113 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) 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 2 lb uplift at joint 1, 6 lb uplift at joint 3 and 106 lb uplift at joint 4.

LOAD CASE(S) Standard



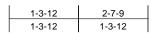
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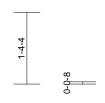
Job	Truss	Truss Type	Qty	Ply	JSJ, Pinewood - Elev. B (5-27-20)	
4703105	V08	Valley	1	1	Job Reference (optional)	174979775

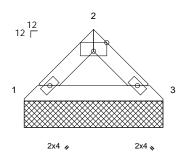
Run: 8.83 S. Jun 11 2025 Print: 8.830 S. Jun 11 2025 MiTek Industries. Inc. Thu Jul 17 10:15:59 ID:egMp74asgY8MKodfk6VaEzzIGkD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



2-7-9

3x6 =





2-7-9

Scale = 1:21.8

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 8 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 2-7-9 oc purlins.

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

bracing.

REACTIONS (size) 1=2-7-9, 3=2-7-9

Max Horiz 1=38 (LC 9)

Max Uplift 1=-24 (LC 12), 3=-24 (LC 13) Max Grav 1=105 (LC 1), 3=105 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-122/48, 2-3=-122/48

BOT CHORD 1-3=-30/97

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.
- 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 24 lb uplift at joint 1 and 24 lb uplift at joint 3.

LOAD CASE(S) Standard



July 18,2025

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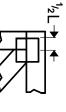
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 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)

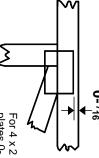


Symbols

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

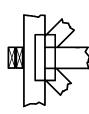
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

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



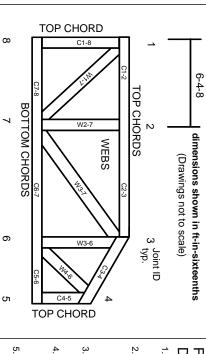
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

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.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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- Camber is a non-structural consideration and is the 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.