

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

RE: 4619346 - JSJ, Maplewood Prime A (12-26-24)

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Project Customer: JSJ Builders Project Name:

Lot/Block: 4 Subdivision: ILAS WAY

Address:

City: Dunn 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

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

Wind Speed: 130 mph

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

This package includes 20 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Job ID#	Truss Na	me Date
1	173109378	4619346	A01	4/30/25
2	173109379 173109380	4619346 4619346	A02 A03	4/30/25 4/30/25
4	173109381	4619346	A04	4/30/25
4 5 6 7	173109382 173109383	4619346 4619346	A06	4/30/25 4/30/25
	173109384	4619346	A07	4/30/25
8 9	173109385	4619346 4619346	B01	4/30/25
10	173109386 173109387	4619346	B02 C01	4/30/25 4/30/25
11	173109388	4619346	C02	4/30/25
12 13	173109389 173109390	4619346 4619346	C04	4/30/25 4/30/25
14	173109391	4619346	V01	4/30/25
16	173109392 173109393	4619346 4619346	V02 V03	4/30/25 4/30/25
17	173109393	4619346	V03 V04	4/30/25
18	173109395	4619346	V05	4/30/25
19 20	173109396 173109397	4619346 4619346	V06 V07	4/30/25 4/30/25

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: Galinski, John

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.



April 30,2025

Galinski, John



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, Maplewood Prime A (12-26-24)	
4619346	A01	Hip Supported Gable	1	1	Job Reference (optional)	I73109378

31-11-0

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

-0-11-0

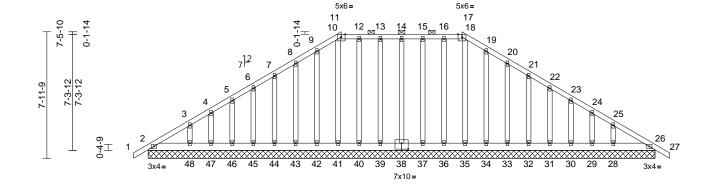
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12-1-13

12-1-13

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries. Inc. Tue Apr 29 12:38:12 ID:YFAsy9mqBrEqN0MGY4iGStzmvGV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





31-11-0 Scale = 1:72.5

Plate Offsets (X, Y): [38:0-5-0,0-4-8]

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	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	-0.01	26	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 273 lb	FT = 20%

LUMBER Max Grav 2=0 (LC 8), 26=122 (LC 24), 28=211 (LC 20), 29=82 (LC 20), TOP CHORD 2x4 SP No.2 30=127 (LC 20), 31=116 (LC 20), BOT CHORD 2x6 SP No.2 2x4 SP No.3 32=119 (LC 20), 33=116 (LC 20), **OTHERS** 34=128 (LC 20), 35=175 (LC 1), **BRACING** 36=116 (LC 1), 37=105 (LC 24), TOP CHORD Structural wood sheathing directly applied or 38=107 (LC 1), 39=106 (LC 24), 10-0-0 oc purlins, except 40=116 (LC 23), 41=175 (LC 23), 2-0-0 oc purlins (10-0-0 max.): 11-17. 42=127 (LC 19), 43=116 (LC 19), **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc 44=121 (LC 19), 45=108 (LC 19), bracing. 46=170 (LC 1), 47=74 (LC 8), 2=31-11-0, 26=31-11-0, 48=440 (LC 1)

REACTIONS (size) 28=31-11-0, 29=31-11-0, **FORCES** (lb) - Maximum Compression/Maximum 30=31-11-0, 31=31-11-0, 32=31-11-0, 33=31-11-0, TOP CHORD 1-2=0/28, 2-3=-165/249, 3-4=-107/206, 34=31-11-0, 35=31-11-0, 4-5=-60/210, 5-6=-20/194, 6-7=-54/182 36=31-11-0, 37=31-11-0, 7-8=-90/189, 8-9=-129/201, 9-10=-163/214, 38=31-11-0, 39=31-11-0, 10-11=-155/206, 11-12=-153/203, 40=31-11-0, 41=31-11-0, 12-13=-152/202, 13-14=-152/202, 42=31-11-0, 43=31-11-0, 14-15=-152/202, 15-16=-152/202, 44=31-11-0, 45=31-11-0, 16-17=-153/203, 17-18=-155/206, 46=31-11-0, 47=31-11-0, 18-19=-163/214, 19-20=-129/205, 48=31-11-0 20-21=-90/193, 21-22=-54/187,

Max Horiz 2=252 (LC 11) Max Uplift 2=-1 (LC 20), 26=-39 (LC 9), 28=-101 (LC 13), 29=-47 (LC 13), 30=-64 (LC 13), 31=-61 (LC 13), 32=-61 (LC 13), 33=-65 (LC 13), 34=-54 (LC 13), 36=-34 (LC 8), 37=-42 (LC 9), 38=-37 (LC 8), 39=-41 (LC 9), 40=-34 (LC 8), 42=-54 (LC 12), 43=-65 (LC 12),

22-23=-61/200. 23-24=-88/213. 24-25=-113/220, 25-26=-172/251, 26-27=0/28 **BOT CHORD** 2-48=-211/217, 47-48=-211/217, 46-47=-211/217, 45-46=-211/217, 44-45=-211/217, 43-44=-211/217, 42-43=-211/217, 41-42=-211/217, 40-41=-211/217, 39-40=-211/217, 37-39=-211/217, 36-37=-211/217, 44=-60 (LC 12), 45=-64 (LC 12), 35-36=-211/217, 34-35=-211/217, 46=-51 (LC 12), 47=-172 (LC 20), 33-34=-211/217, 32-33=-211/217, 48=-67 (LC 13) 31-32=-211/217, 30-31=-211/217, 29-30=-211/217, 28-29=-211/217, 26-28=-211/217

WEBS 14-38=-80/55, 13-39=-79/62, 12-40=-89/50, 10-41=-149/2, 9-42=-101/70, 8-43=-103/81, 7-44=-100/77, 6-45=-99/77, 5-46=-106/77, 4-47=-81/78, 3-48=-161/103, 15-37=-78/62, 16-36=-89/50, 18-35=-148/13, 19-34=-101/70, 20-33=-103/81, 21-32=-100/77, 22-31=-99/77, 23-30=-102/79, 24-29=-87/70, 25-28=-144/102

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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,



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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, Maplewood Prime A (12-26-24)	
4619346	A01	Hip Supported Gable	1	1	Job Reference (optional)	173109378

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- Provide adequate drainage to prevent water ponding.
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 2, 39 lb uplift at joint 26, 37 lb uplift at joint 38, 41 lb uplift at joint 39, 34 lb uplift at joint 40, 54 lb uplift at joint 42, 65 lb uplift at joint 43, 60 lb uplift at joint 44, 64 lb uplift at joint 45, 51 lb uplift at joint 46, 172 lb uplift at joint 47, 67 lb uplift at joint 48, 42 lb uplift at joint 37, 34 lb uplift at joint 36, 54 lb uplift at joint 34, 65 lb uplift at joint 33, 61 lb uplift at joint 32, 61 lb uplift at joint 31, 64 lb uplift at joint 30, 47 lb uplift at joint 29, 101 lb uplift at joint 28 and 1 lb uplift at joint 2.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



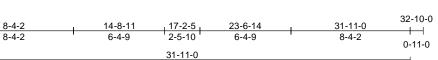
Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime A (12-26-24)	
4619346	A02	Hip	1	1	Job Reference (optional)	I73109379

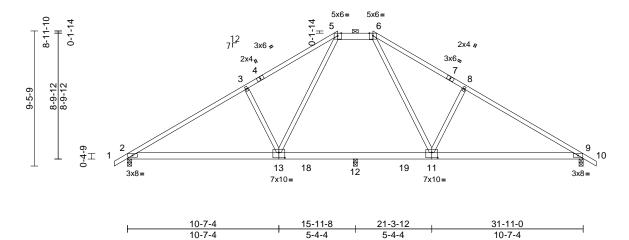
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Scale = 1:80.7 Plate Offsets (X, Y): [11:0-5-0,0-4-8], [13:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL (roof)	. ,	Plate Grip DOL	1.15	TC		Vert(LL)		11-17			MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.42	11-17	>461	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.27	13-15	>697	240	Weight: 177 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 5-6:2x6 SP No.2 2x6 SP No.2

BOT CHORD 2x4 SP No.3 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except

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

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

bracing.

REACTIONS (size) 2=0-3-8, 9=0-3-8, 12=0-3-8

Max Horiz 2=-302 (LC 10)

Max Uplift 2=-355 (LC 12), 9=-358 (LC 13) Max Grav 2=1254 (LC 1), 9=1254 (LC 1),

12=324 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/28, 2-3=-1863/687, 3-5=-1757/751,

5-6=-1236/609, 6-8=-1756/751,

8-9=-1863/686, 9-10=0/28

BOT CHORD 2-12=-460/1561, 9-12=-426/1522 5-13=-277/723, 3-13=-505/411,

6-11=-280/723, 8-11=-505/411

WEBS

NOTES

TOP CHORD

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 355 lb uplift at joint 2 and 358 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



April 30,2025

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

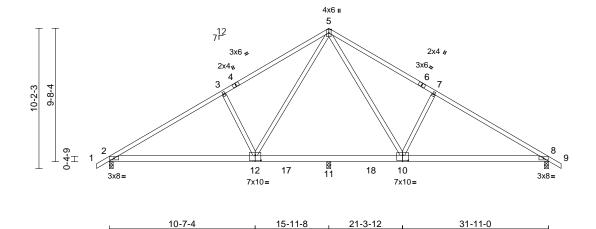
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime A (12-26-24)	
4619346	A03	Common	4	1	Job Reference (optional)	I73109380

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Scale = 1:83.7

Plate Offsets (X, Y): [10:0-5-0,0-4-8], [12:0-5-0,0-4-8]

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	0.84	Vert(LL)	-0.13	10-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.33	10-16	>584	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.19	12-14	>999	240	Weight: 179 lb	FT = 20%

5-4-4

5-4-4

10-7-4

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. Rigid ceiling directly applied or 9-10-6 oc **BOT CHORD** bracing.

REACTIONS (size) 2=0-3-8, 8=0-3-8, 11=0-3-8

Max Horiz 2=328 (LC 11)

Max Uplift 2=-359 (LC 12), 8=-362 (LC 13) 2=1246 (LC 1), 8=1246 (LC 1), Max Grav

11=318 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/28, 2-3=-1854/673, 3-5=-1804/750, 5-7=-1803/749, 7-8=-1854/673, 8-9=0/28 **BOT CHORD** 2-11=-504/1630, 8-11=-418/1519

WEBS 5-12=-328/790, 3-12=-563/428, 5-10=-332/789. 7-10=-563/428

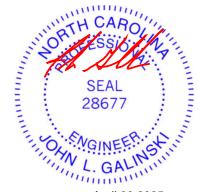
NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 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 359 lb uplift at joint 2 and 362 lb uplift at joint 8.

LOAD CASE(S) Standard

10-7-4



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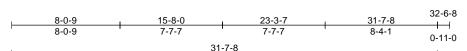
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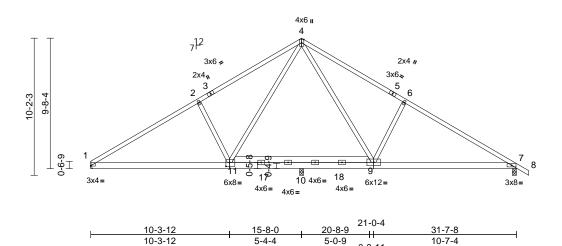


Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime A (12-26-24)	
4619346	A04	Common	6	1	Job Reference (optional)	I73109381

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0-3-11





Scale = 1:85.6

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

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	0.83	Vert(LL)	-0.12	9-16	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.15	вс	0.66	` '	-0.29	9-16	>660	240	-	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.16	9-16	>999	240	Weight: 200 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

2-2-0 oc purlins.

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

bracing.

REACTIONS 1= Mechanical, 7=0-3-8, 10=0-3-8 (size)

Max Horiz 1=-322 (LC 8)

Max Uplift 1=-277 (LC 12), 7=-317 (LC 13),

10=-92 (LC 12)

1=1035 (LC 1), 7=1097 (LC 1), Max Grav

10=565 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-1579/550, 2-4=-1479/604,

4-6=-1526/616, 6-7=-1620/562, 7-8=0/28

BOT CHORD 1-10=-430/1412, 7-10=-324/1320

WEBS 4-11=-259/579, 2-11=-547/422, 4-9=-275/648,

6-9=-559/426

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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 277 lb uplift at joint 1, 317 lb uplift at joint 7 and 92 lb uplift at joint 10.

LOAD CASE(S) Standard



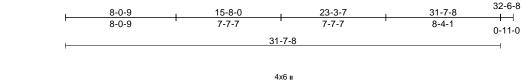
April 30,2025

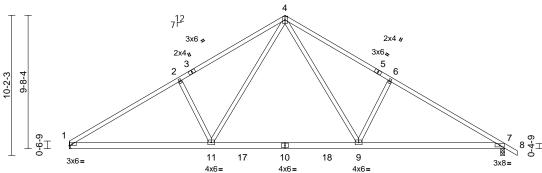
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Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime A (12-26-24)	
4619346	A05	Common	5	1	Job Reference (optional)	I73109382

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 10-3-12	21-0-4	31-7-8	
10-3-12	10-8-8	10-7-4	

Scale = 1:83.7

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	0.90	Vert(LL)	-0.20	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.30	9-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.16	9-16	>999	240	Weight: 176 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. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1= Mechanical, 7=0-3-8

Max Horiz 1=-322 (LC 8)

Max Uplift 1=-323 (LC 12), 7=-357 (LC 13) Max Grav 1=1287 (LC 19), 7=1344 (LC 20) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD 1-2=-2025/668, 2-4=-1927/744,

4-6=-1973/756, 6-7=-2068/679, 7-8=0/28 **BOT CHORD** 1-11=-490/1881, 9-11=-148/1205,

7-9=-424/1678

4-11=-314/914, 2-11=-543/423, 4-9=-329/984, WEBS

6-9=-558/428

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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 323 lb uplift at joint 1 and 357 lb uplift at joint 7.

LOAD CASE(S) Standard

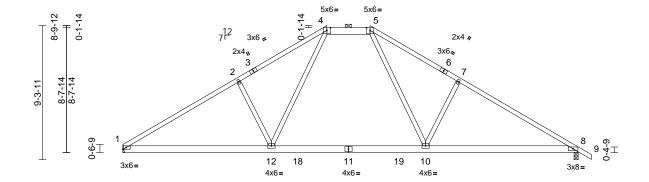
April 30,2025



Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime A (12-26-24)	
4619346	A06	Hip	1	1	Job Reference (optional)	173109383

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	10-3-12	21-0-4	31-7-8
80	10-3-12	10-8-8	10-7-4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.26	10-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.42	10-17	>900	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.29	10-17	>999	240	Weight: 174 lb	FT = 20%

LUMBER

Scale = 1:80

TOP CHORD 2x4 SP No.2 *Except* 4-5:2x6 SP No.2

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing

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

Max Horiz 1=-290 (LC 8)

Max Uplift 1=-311 (LC 12), 8=-346 (LC 13)

Max Grav 1=1264 (LC 1), 8=1321 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-1982/672, 2-4=-1838/733,

4-5=-1317/606, 5-7=-1880/744,

7-8=-2018/682, 8-9=0/28

BOT CHORD 1-12=-423/1788, 10-12=-173/1246,

8-10=-422/1654

4-12=-244/813, 2-12=-468/402,

5-10=-257/878, 7-10=-495/409

WFBS 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 311 lb uplift at joint 1 and 346 lb uplift at joint 8.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

April 30,2025

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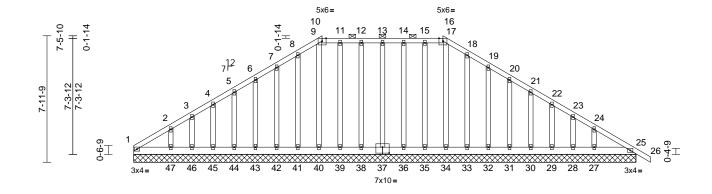




Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime A (12-26-24)	
4619346	A07	Hip Supported Gable	1	1	Job Reference (optional)	I73109384

Run: 8.83 S. Apr 11 2025 Print: 8.830 S. Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 12:38:15 ID:8W9RimTznmkG21WMuR4oqWzmv2g-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





31-7-8

1=129 (LC 20), 25=160 (LC 1),

27=215 (LC 20), 28=80 (LC 20),

29=128 (LC 20), 30=116 (LC 20),

31=119 (LC 20), 32=119 (LC 20),

33=120 (LC 20), 34=104 (LC 22),

35=107 (LC 24), 36=108 (LC 23),

37=107 (LC 1), 38=108 (LC 24),

39=107 (LC 23), 40=122 (LC 22),

41=122 (LC 19), 42=118 (LC 19),

43=119 (LC 19), 44=116 (LC 19),

45=129 (LC 19), 46=77 (LC 19),

Scale = 1:72.5

Plate Offsets (X, Y): [37:0-5-0,0-4-8]

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	25	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 271 lb	FT = 20%

Max Grav

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 10-16.

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=31-7-8, 25=31-7-8, 27=31-7-8, 28=31-7-8, 29=31-7-8, 30=31-7-8,

31=31-7-8, 32=31-7-8, 33=31-7-8, 34=31-7-8, 35=31-7-8, 36=31-7-8, 37=31-7-8, 38=31-7-8, 39=31-7-8, 40=31-7-8, 41=31-7-8, 42=31-7-8, 43=31-7-8, 44=31-7-8, 45=31-7-8,

46=31-7-8, 47=31-7-8

47=-136 (LC 12)

Max Horiz

Max Uplift

1=-245 (LC 8) 1=-49 (LC 8), 27=-101 (LC 13), 28=-47 (LC 13), 29=-64 (LC 13), 30=-60 (LC 13), 31=-61 (LC 13), 32=-65 (LC 13), 33=-53 (LC 13), 35=-36 (LC 9), 36=-41 (LC 8), 37=-37 (LC 9), 38=-42 (LC 8), 39=-36 (LC 9), 40=-14 (LC 9), 41=-56 (LC 12), 42=-64 (LC 12), 43=-61 (LC 12), 44=-59 (LC 12), 45=-68 (LC 12), 46=-31 (LC 12), (lb) - Maximum Compression/Maximum

TOP CHORD 10-11=-172/207, 11-12=-171/206, 12-13=-171/206, 13-14=-171/206,

14-15=-171/206, 15-16=-172/207, 16-17=-174/210, 17-18=-184/218, 18-19=-151/179, 19-20=-112/133,

47=225 (LC 19)

20-21=-76/89, 21-22=-45/48, 22-23=-55/50, 23-24=-87/63, 24-25=-150/114, 25-26=0/28, 1-2=-207/176, 2-3=-151/146, 3-4=-131/133,

4-5=-118/123. 5-6=-105/131. 6-7=-112/158. 7-8=-151/185, 8-9=-184/218, 9-10=-174/210

BOT CHORD 1-47=-132/198, 46-47=-132/198, 45-46=-132/198, 44-45=-132/198,

43-44=-132/198, 42-43=-132/198, 41-42=-132/198, 40-41=-132/198, 39-40=-132/198, 38-39=-132/198,

36-38=-132/198, 35-36=-132/198, 34-35=-132/198, 33-34=-132/198, 32-33=-132/198, 31-32=-132/198, 30-31=-132/198, 29-30=-132/198,

28-29=-132/198, 27-28=-132/198, 25-27=-132/198

WEBS

13-37=-80/55, 12-38=-81/62, 11-39=-80/52, 9-40=-95/31, 8-41=-96/72, 7-42=-103/80, 6-43=-99/77, 5-44=-99/77, 4-45=-102/79, 3-46=-87/68, 2-47=-139/107, 14-36=-81/62, 15-35=-80/52, 17-34=-78/12, 18-33=-94/69, 19-32=-103/81, 20-31=-99/77, 21-30=-99/77, 22-29=-102/79, 23-28=-87/70, 24-27=-144/102

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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. Provide adequate drainage to prevent water ponding.



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ontinued 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

FORCES

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, Maplewood Prime A (12-26-24)	
4619346	A07	Hip Supported Gable	1	1	Job Reference (optional)	173109384

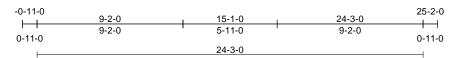
Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries. Inc. Tue Apr 29 12:38:15 ID: 8W9RimTznmkG21WMuR4oqWzmv2g-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff Page: 2

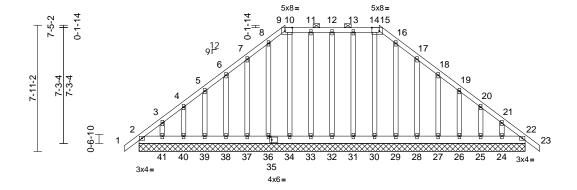
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 1, 37 lb uplift at joint 37, 42 lb uplift at joint 38, 36 lb uplift at joint 39, 14 lb uplift at joint 40, 56 lb uplift at joint 41, 64 lb uplift at joint 42, 61 lb uplift at joint 43, 59 lb uplift at joint 44, 68 lb uplift at joint 45, 31 lb uplift at joint 46, 136 lb uplift at joint 47, 41 lb uplift at joint 36, 36 lb uplift at joint 35, 53 lb uplift at joint 33, 65 lb uplift at joint 32, 61 Ib uplift at joint 31, 60 lb uplift at joint 30, 64 lb uplift at joint 29, 47 lb uplift at joint 28, 101 lb uplift at joint 27 and 49 lb uplift at joint 1.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 48.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime A (12-26-24)	
4619346	B01	Hip Supported Gable	1	1	Job Reference (optional)	I73109385

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries. Inc. Tue Apr 29 12:38:15 ID:d2LxIAWvWBZ3NF4twVdzJezmv1K-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





24-3-0 Scale = 1:72.4

Plate Offsets (X, Y): [10:0-5-8,Edge], [14:0-5-8,Edge], [35:0-1-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	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	0.08	Horz(CT)	0.01	22	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 213 lb	FT = 20%

					-
LUMBER TOP CHORD	2x4 SP N	lo 2		FORCES	(lb) - Maximum Compression/Maximum Tension
BOT CHORD				TOP CHORD	9-10=-151/177, 10-11=-158/188,
OTHERS	2x4 SP N	lo.3			11-12=-158/188, 12-13=-158/188,
BRACING					13-14=-158/188, 14-15=-151/177, 1-2=0/33,
TOP CHORD			athing directly applied or		2-3=-241/179, 3-4=-179/156, 4-5=-131/132, 5-6=-113/117, 6-7=-95/137, 7-8=-149/177,
		purlins, exc			8-9=-172/199. 15-16=-172/199.
BOT CHORD			-0 max.): 9-15. applied or 10-0-0 oc		16-17=-149/172, 17-18=-94/107,
BOT OHORD	bracing.	ing directly	applied of 10 0 0 00		18-19=-55/51, 19-20=-70/60, 20-21=-130/88,
REACTIONS	•	2=24-3-0,	22=24-3-0, 24=24-3-0,	DOT CHORD	21-22=-192/141, 22-23=0/33
	, ,		, 26=24-3-0, 27=24-3-0,	BOT CHORD	2-41=-142/214, 40-41=-142/214, 39-40=-142/214, 38-39=-142/214.
			, 29=24-3-0, 30=24-3-0,		37-38=-142/214, 36-37=-142/214,
), 32=24-3-0, 33=24-3-0,), 36=24-3-0, 37=24-3-0,		34-36=-142/214, 33-34=-142/214,
), 39=24-3-0, 37=24-3-0,), 39=24-3-0, 40=24-3-0,		32-33=-142/214, 31-32=-142/214,
		41=24-3-0	, , ,		30-31=-142/214, 29-30=-142/214, 28-29=-142/214. 27-28=-142/214.
		2=250 (LC	,		26-27=-142/214, 27-26=-142/214, 26-27=-142/214, 25-26=-142/214,
	Max Uplift		8), 22=-29 (LC 9),		24-25=-142/214, 22-24=-142/214
			C 13), 25=-71 (LC 13), C 13), 27=-76 (LC 13),	WEBS	12-32=-81/60, 11-33=-83/60, 10-34=-93/37,
			C 13), 27=-70 (LC 13), C 13), 29=-27 (LC 13),		8-36=-96/54, 7-37=-119/99, 6-38=-112/93,
			C 9), 32=-40 (LC 8),		5-39=-112/92, 4-40=-113/93, 3-41=-114/91, 13-31=-83/60, 14-30=-82/21, 16-29=-84/43.
			C 8), 34=-20 (LC 9),		17-28=-119/101, 18-27=-112/93,
			C 12), 37=-83 (LC 12),		19-26=-112/92, 20-25=-113/93,
		38=-76 (LC 12), 39=-79 (LC 12), 40=-69 (LC 12), 41=-104 (LC 12)		21-24=-115/90	
	Max Grav		C 20), 22=135 (LC 1),	NOTES	
		٠.		1)	d roof live loade have been considered for

24=128 (LC 20), 25=121 (LC 20),

26=123 (LC 20), 27=122 (LC 20),

28=125 (LC 20), 29=111 (LC 20),

30=109 (LC 22), 31=109 (LC 23),

32=107 (LC 23), 33=109 (LC 24),

34=120 (LC 22), 36=123 (LC 19),

37=124 (LC 19), 38=122 (LC 19),

39=124 (LC 19), 40=119 (LC 19),

41=135 (LC 19)

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

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- Provide adequate drainage to prevent water ponding.
- 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.



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ontinued on page 2

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

WARNING - Ventry design parameters and READ NOTES ON THIS AND INCLUDED MITTER REFERENCE PAGE MIT-473 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/TP1 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, Maplewood Prime A (12-26-24)	
4619346	B01	Hip Supported Gable	1	1	Job Reference (optional)	73109385

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10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 2, 29 lb uplift at joint 22, 40 lb uplift at joint 32, 43 lb uplift at at joint 33, 20 lb uplift at joint 34, 38 lb uplift at joint 36, 83 lb uplift at joint 37, 76 lb uplift at joint 38, 79 lb uplift at joint 39, 69 lb uplift at joint 40, 104 lb uplift at joint 41, 42 $\,$ lb uplift at joint 31, 27 lb uplift at joint 29, 85 lb uplift at joint 28, 76 lb uplift at joint 27, 78 lb uplift at joint 26, 71 lb uplift at joint 25, 98 lb uplift at joint 24, 76 lb uplift at joint 2 and 29 lb uplift at joint 22.

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

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime A (12-26-24)	
4619346	B02	Hip Girder	1	3	Job Reference (optional)	173109386

Run: 8.83 S. Apr 11 2025 Print: 8.830 S. Apr 11 2025 MiTek Industries, Inc., Tue Apr 29 12:38:16 ID:9xuGp5Kxkm0ZvYimM4KgXnzmv0H-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

5-2-14 14-1-8 19-0-2 24-3-0 5-2-14 4-10-9 4-0-0 4-10-9 5-2-14 24-3-0

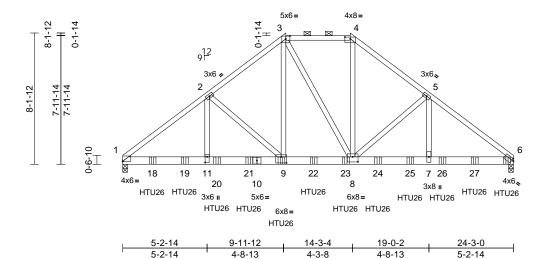


Plate Offsets (X, Y): [1:Edge,0-0-2], [3:0-3-0,0-2-2], [4:0-4-0,0-1-6], [6:0-1-5,0-1-8], [8:0-4-0,0-3-12], [9:0-4-0,0-4-8], [11:0-4-4,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.10	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.19	9-11	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.06	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.11	9-11	>999	240	Weight: 491 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

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

Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing

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

Max Horiz 1=251 (LC 24)

Max Uplift 1=-2037 (LC 8), 6=-2135 (LC 9)

Max Grav 1=7672 (LC 1), 6=7827 (LC 1) **FORCES**

(lb) - Maximum Compression/Maximum

Tension

3-4=-6115/1789, 1-2=-10618/2837, TOP CHORD 2-3=-7952/2193, 4-5=-7774/2160,

5-6=-9953/2706

1-11=-2323/8479. 9-11=-2323/8479.

BOT CHORD

8-9=-1615/6249, 7-8=-2049/7897,

6-7=-2049/7897

WFBS 2-11=-793/3246, 2-9=-2895/935,

3-9=-1288/4769, 3-8=-478/185,

4-8=-1193/4278, 5-8=-2250/831

5-7=-667/2539

NOTES

- 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 0-6-0 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 3) 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2037 lb uplift at joint 1 and 2135 lb uplift at joint 6.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-4 from the left end to 23-10-4 to connect truss(es) to back face of bottom chord
- 11) 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: 3-4=-60, 12-15=-20, 1-3=-60, 4-6=-60 Concentrated Loads (lb)

Vert: 9=-1244 (B), 17=-1021 (B), 18=-1244 (B), 19=-1244 (B), 20=-1244 (B), 21=-1244 (B), 22=-1244 (B), 23=-1015 (B), 24=-1015 (B), 25=-1015 (B), 26=-1015 (B), 27=-1015 (B)

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

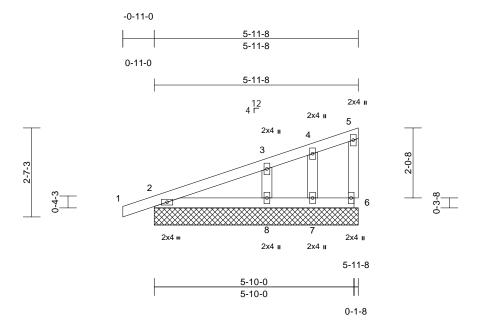
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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



Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime A (12-26-24)	
4619346	C01	Monopitch Supported Gable	1	1	Job Reference (optional)	I73109387

Run: 8.83 S. Apr 11 2025 Print: 8.830 S. Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 12:38:16 ID:ZsIYMgvgUDmntnAb2AdYOizmuwM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:33.6

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	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 25 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-8 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=5-11-8, 6=5-11-8, 7=5-11-8,

8=5-11-8 Max Horiz 2=122 (LC 8)

Max Uplift 2=-73 (LC 8), 6=-21 (LC 12), 7=-23

(LC 8), 8=-108 (LC 12)

Max Grav 2=172 (LC 1), 6=49 (LC 1), 7=43

(LC 1), 8=255 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-111/52, 3-4=-44/13,

4-5=-17/9, 5-6=-34/41

BOT CHORD 2-8=-30/54, 7-8=0/0, 6-7=0/0 WEBS 4-7=-46/67, 3-8=-167/185

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 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 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 73 lb uplift at joint 2, 21 lb uplift at joint 6, 23 lb uplift at joint 7, 108 lb uplift at joint 8 and 73 lb uplift at joint 2.

LOAD CASE(S) Standard



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

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

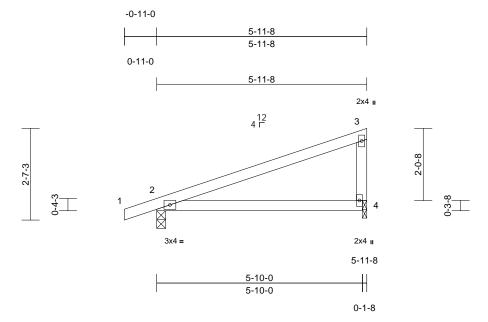
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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, Maplewood Prime A (12-26-24)	
4619346	C02	Monopitch	5	1	Job Reference (optional)	I73109388

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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	0.53	Vert(LL)	0.18	4-7	>385	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.12	4-7	>591	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 22 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (size) 2=0-3-0, 4=0-1-8

Max Horiz 2=122 (LC 8)

Max Uplift 2=-193 (LC 8), 4=-167 (LC 8) Max Grav 2=292 (LC 1), 4=228 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-2=0/17, 2-3=-100/136, 3-4=-152/203

TOP CHORD

BOT CHORD 2-4=-190/101

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 exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 2 and 167 lb uplift at joint 4.

LOAD CASE(S) Standard



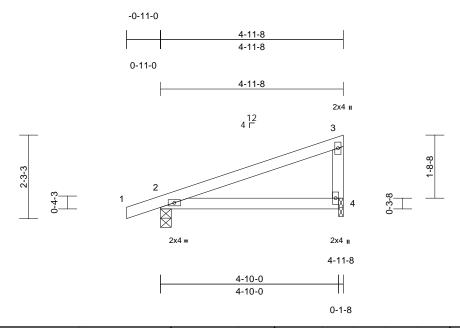
April 30,2025





Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime A (12-26-24)	
4619346	C03	Monopitch	12	1	Job Reference (optional)	173109389

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Scale = 1:31.2

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	0.32	Vert(LL)	-0.02	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.05	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.04	4-7	>999	240	Weight: 19 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8, 4=0-1-8

Max Horiz 2=105 (LC 8)

Max Uplift 2=-111 (LC 8), 4=-79 (LC 12) Max Grav 2=253 (LC 1), 4=187 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-81/32, 3-4=-124/140

BOT CHORD 2-4=-65/98

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 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.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 2 and 79 lb uplift at joint 4.

LOAD CASE(S) Standard



April 30,2025

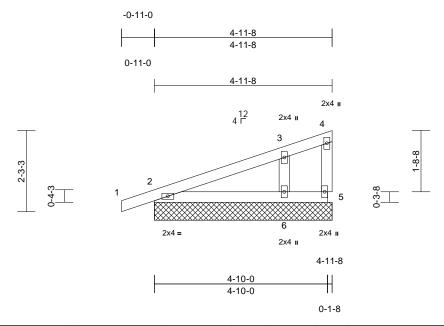




Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime A (12-26-24)	
4619346	C04	Monopitch Supported Gable	1	1	Job Reference (optional)	I73109390

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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	0.12	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	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 20 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 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 4-11-8 oc purlins, except end verticals.

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

(size) REACTIONS 2=4-11-8, 5=4-11-8, 6=4-11-8

Max Horiz 2=105 (LC 8)

Max Uplift 2=-83 (LC 8), 5=-29 (LC 1), 6=-121

(LC 12)

Max Grav 2=182 (LC 1), 5=12 (LC 12), 6=287

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-82/43, 3-4=-26/1, 4-5=-3/13

BOT CHORD 2-6=-31/59, 5-6=0/0 **WEBS** 3-6=-189/215

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.
- 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.

- 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 83 lb uplift at joint 2, 29 lb uplift at joint 5, 121 lb uplift at joint 6 and 83 lb uplift at joint 2.

LOAD CASE(S) Standard



April 30,2025

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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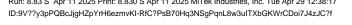
Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime A (12-26-24)	
4619346	V01	Valley	1	1	Job Reference (optional)	I73109391

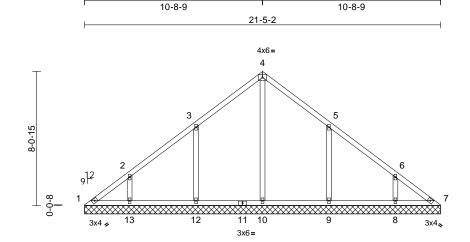
10-8-9

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

Run: 8.83 S. Apr 11 2025 Print: 8.830 S. Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 12:38:17

21-5-2





Scale = 1:69.3

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	0.20	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: 99 lb	FT = 20%

21-5-2

LUMBER

2x4 SP No.2 TOP CHORD 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=21-5-2, 7=21-5-2, 8=21-5-2, 9=21-5-2, 10=21-5-2, 12=21-5-2,

13=21-5-2

Max Horiz 1=-263 (LC 8)

Max Uplift 1=-67 (LC 8), 7=-5 (LC 9), 8=-181 (LC 13), 9=-259 (LC 13), 12=-258

(LC 12), 13=-186 (LC 12)

Max Grav 1=151 (LC 20), 7=106 (LC 22),

8=319 (LC 20), 9=457 (LC 20),

10=432 (LC 22), 12=457 (LC 19),

13=325 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-248/214, 2-3=-183/161, 3-4=-214/237,

4-5=-214/227, 5-6=-115/82, 6-7=-187/128 **BOT CHORD** 1-13=-118/190, 12-13=-118/190,

10-12=-118/190, 9-10=-118/190,

8-9=-118/190, 7-8=-118/190

WEBS 4-10=-216/7, 3-12=-364/307, 2-13=-286/228, 5-9=-364/307, 6-8=-286/226

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 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, 5 lb uplift at joint 7, 258 lb uplift at joint 12, 186 lb uplift at joint 13, 259 lb uplift at joint 9 and 181 lb uplift at joint 8

LOAD CASE(S) Standard



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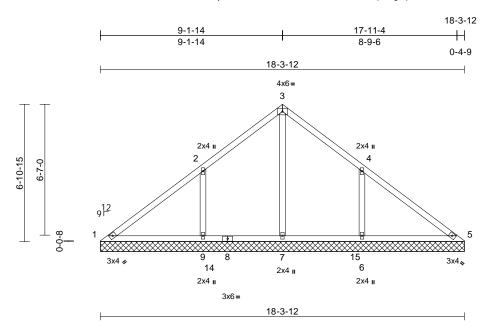
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Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime A (12-26-24)	
4619346	V02	Valley	1	1	Job Reference (optional)	173109392

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 79 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.

REACTIONS (size) 1=18-3-12, 5=18-3-12, 6=18-3-12,

7=18-3-12, 9=18-3-12 Max Horiz 1=-225 (LC 8)

Max Uplift 1=-30 (LC 8), 6=-309 (LC 13),

9=-313 (LC 12)

1=116 (LC 20), 5=103 (LC 24), Max Grav 6=550 (LC 20), 7=532 (LC 19),

9=554 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-215/318, 2-3=-25/218, 3-4=0/205,

4-5=-157/270

BOT CHORD 1-9=-264/214, 7-9=-264/214, 6-7=-264/214,

5-6=-264/214

WEBS 3-7=-368/39, 2-9=-417/334, 4-6=-417/333

NOTES

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

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 1, 313 lb uplift at joint 9 and 309 lb uplift at joint 6.

LOAD CASE(S) Standard



April 30,2025

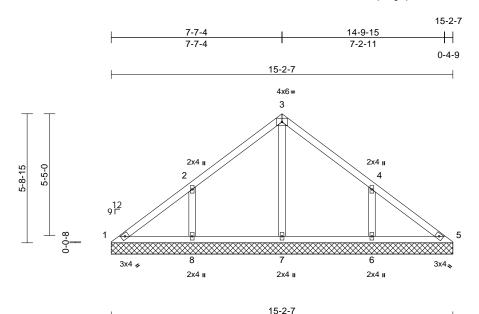




Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime A (12-26-24)	
4619346	V03	Valley	1	1	Job Reference (optional)	I73109393

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries. Inc. Tue Apr 29 12:38:18 ID:P2dhYaY2ldAowus5K8wLYlzmvJM-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:51.3

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	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 64 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.

REACTIONS (size) 1=15-2-7, 5=15-2-7, 6=15-2-7,

7=15-2-7, 8=15-2-7 Max Horiz 1=-186 (LC 8)

Max Uplift

1=-33 (LC 8), 6=-249 (LC 13), 8=-252 (LC 12)

1=125 (LC 20), 5=96 (LC 24), Max Grav 6=406 (LC 20), 7=317 (LC 1),

8=410 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-160/183, 2-3=-93/149, 3-4=-93/128,

4-5=-115/131

BOT CHORD 1-8=-119/149, 7-8=-119/138, 6-7=-119/138,

5-6=-119/138

WEBS 3-7=-245/20, 2-8=-349/282, 4-6=-349/281

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 33 lb uplift at joint 1, 252 lb uplift at joint 8 and 249 lb uplift at joint 6.

LOAD CASE(S) Standard



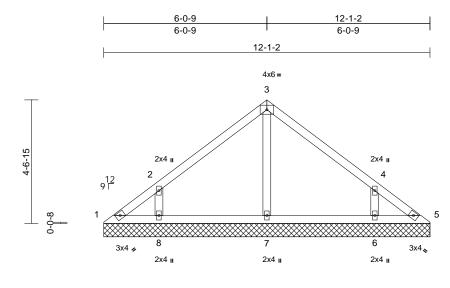
April 30,2025





Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime A (12-26-24)	
4619346	V04	Valley	1	1	Job Reference (optional)	I73109394

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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	0.18	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	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 48 lb	FT = 20%

12-1-2

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=12-1-2, 5=12-1-2, 6=12-1-2,

7=12-1-2, 8=12-1-2

Max Horiz 1=-147 (LC 8)

Max Uplift 1=-45 (LC 8), 5=-9 (LC 9), 6=-209

(LC 13), 8=-213 (LC 12)

1=97 (LC 20), 5=69 (LC 19), 6=342 (LC 20), 7=253 (LC 1), 8=347 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-140/127, 2-3=-146/139, 3-4=-146/132,

4-5=-98/74 1-8=-46/85, 7-8=-42/85, 6-7=-42/85,

5-6=-42/85 **WEBS** 3-7=-167/20, 2-8=-332/276, 4-6=-332/274

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 1, 9 lb uplift at joint 5, 213 lb uplift at joint 8 and 209 lb uplift at joint 6.

LOAD CASE(S) Standard



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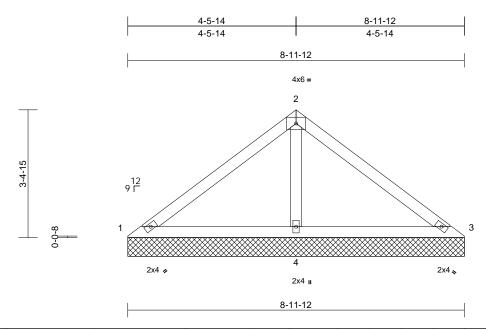




Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime A (12-26-24)	
4619346	V05	Valley	1	1	Job Reference (optional)	l73109395

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 33 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

8-11-12 oc purlins.

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

bracing.

REACTIONS (size) 1=8-11-12, 3=8-11-12, 4=8-11-12

Max Horiz 1=-108 (LC 10)

Max Uplift 1=-13 (LC 24), 3=-20 (LC 8),

4=-194 (LC 12)

1=76 (LC 23), 3=76 (LC 24), 4=633 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-112/271, 2-3=-112/264 **BOT CHORD**

1-4=-257/178, 3-4=-257/178 WEBS 2-4=-523/277

NOTES

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

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1, 20 lb uplift at joint 3 and 194 lb uplift at joint 4.

LOAD CASE(S) Standard



April 30,2025

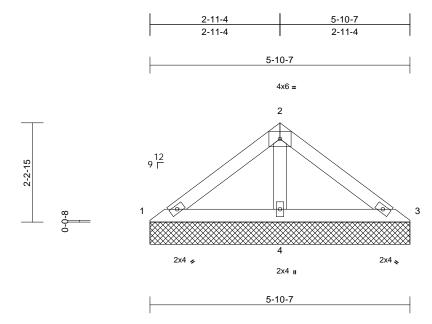




Job	Truss	Truss Type	Qty	Ply	JSJ, Maplewood Prime A (12-26-24)	
4619346	V06	Valley	1	1	Job Reference (optional)	173109396

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Page: 1



Scale = 1:26

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	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 21 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

5-10-7 oc purlins.

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

bracing.

REACTIONS (size) 1=5-10-7, 3=5-10-7, 4=5-10-7

1=69 (LC 9) Max Horiz

Max Uplift 1=-5 (LC 12), 3=-18 (LC 13),

4=-105 (LC 12)

1=67 (LC 23), 3=67 (LC 24), 4=367 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-61/135, 2-3=-61/127

BOT CHORD 1-4=-143/109, 3-4=-143/109

2-4=-257/135 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 5 lb uplift at joint 1, 18 lb uplift at joint 3 and 105 lb uplift at joint 4.

LOAD CASE(S) Standard



April 30,2025



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

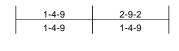
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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, Maplewood Prime A (12-26-24)	
4619346	V07	Valley	1	1	Job Reference (optional)	173109397

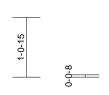
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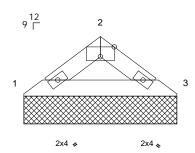
Page: 1



2-9-2

3x6 =





2-9-2

Scale = 1:20.8

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	0.05	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 2-9-2 oc purlins.

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

bracing.

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

Max Horiz 1=-30 (LC 10)

Max Uplift 1=-28 (LC 12), 3=-28 (LC 13) Max Grav 1=110 (LC 1), 3=110 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-146/58, 2-3=-146/58

BOT CHORD 1-3=-34/118

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 2-0-0 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 28 lb uplift at joint 1 and 28 lb uplift at joint 3.

LOAD CASE(S) Standard



April 30,2025





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)

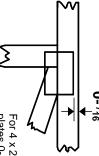


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 × 4

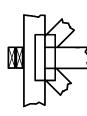
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



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

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

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

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THE NGINEERING BY

MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- 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.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 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 environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.