

Trenco 818 Soundside Rd Edenton, NC 27932

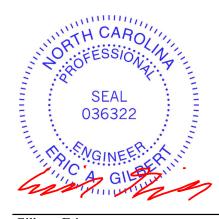
Re: 2504375-28480 Jane SC 1646

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Lumber 2383 (Dunn, NC).

Pages or sheets covered by this seal: I75344330 thru I75344357

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

North Carolina COA: C-0844



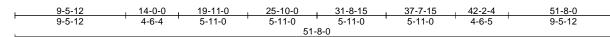
August 4,2025

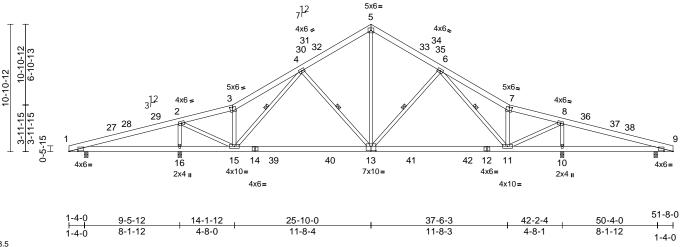
Gilbert, Eric

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.

Job	Truss	Truss Type	Qty	Ply	Jane SC 1646	
2504375-28480	A1	Roof Special	3	1	Job Reference (optional)	175344330

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:44 ID:Q87YnLXfXMY6DAZPSKyC4RysG?R-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?i Page: 1





Scale = 1:98.5

Plate Offsets (X, Y): [1:0-9-3,0-0-8], [3:0-3-0,0-0-12], [7:0-3-0,0-0-12], [9:0-9-3,0-0-8], [13:0-5-0,0-4-8]

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)	-0.17	13-15	>999	240	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.30	13-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 349 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-7-1 oc purlins. BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc

bracing. WEBS

1 Row at midpt 4-15, 4-13, 6-13, 6-11

REACTIONS (size)

1=0-3-8, 9=0-3-8, 10=0-3-8, 16=0-3-8

Max Horiz 1=-164 (LC 17) Max Uplift

1=-137 (LC 12), 9=-124 (LC 13), 10=-319 (LC 17), 16=-338 (LC 16)

Max Grav 1=339 (LC 47), 9=339 (LC 48),

10=1952 (LC 3), 16=1953 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-98/447, 2-3=-1470/316, 3-4=-1611/430,

4-5=-1377/425, 5-6=-1370/423,

6-7=-1612/424, 7-8=-1471/311, 8-9=-91/413 1-16=-325/179, 15-16=-325/179,

11-15=-195/1437, 10-11=-317/101,

9-10=-317/101

2-16=-1692/398, 2-15=-312/1931,

3-15=-591/213, 4-15=-87/145,

4-13=-398/236, 5-13=-261/1033

6-13=-398/247, 6-11=-77/146, 7-11=-591/211,

8-11=-310/1920, 8-10=-1692/400

NOTES

WEBS

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-2-0, Interior (1) 5-2-0 to 25-10-0, Exterior(2R) 25-10-0 to 31-0-0, Interior (1) 31-0-0 to 51-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 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 137 lb uplift at joint 1, 124 lb uplift at joint 9, 338 lb uplift at joint 16 and 319 lb uplift at joint 10.

LOAD CASE(S) Standard

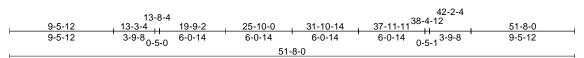


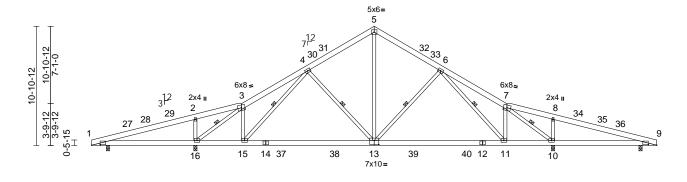
August 4,2025



Job	Truss	Truss Type	Qty	Ply	Jane SC 1646	
2504375-28480	A2	Roof Special	1	1	Job Reference (optional)	175344331

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:45 ID:5tbxPIX8g2LiWXg6dUPuGEysFys-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:105.4

Plate Offsets (X, Y): [1:0-9-3,0-0-8], [7:0-0-0,0-0-0], [9:0-9-3,0-0-8], [13:0-5-0,0-4-8]

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)	-0.18	13-15	>999	240	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.32	13-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.04	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 350 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-7-11 oc purlins.

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

bracing.

WEBS 1 Row at midpt 3-16, 4-15, 4-13, 6-13,

6-11, 7-10

REACTIONS (size) 1=0-3-8, 9=0-3-8, 10=0-3-8,

16=0-3-8

1=-164 (LC 17) Max Horiz

Max Uplift 1=-134 (LC 12), 9=-121 (LC 13),

10=-320 (LC 17), 16=-338 (LC 16)

1=342 (LC 49), 9=342 (LC 50),

10=1946 (LC 3), 16=1946 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-98/415, 2-3=-18/391, 3-4=-1585/414,

4-5=-1392/424, 5-6=-1383/422,

6-7=-1585/408, 7-8=-21/360, 8-9=-92/383

BOT CHORD 1-16=-307/185, 15-16=-212/1406,

11-15=-200/1457, 10-11=-166/1340,

9-10=-288/102

2-16=-486/196, 3-16=-2101/338, 3-15=0/351,

4-15=-91/110, 4-13=-398/238,

5-13=-255/1034, 6-13=-398/249,

6-11=-91/110, 7-11=0/348, 7-10=-2092/338,

8-10=-486/193

NOTES

WFBS

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-2-0, Interior (1) 5-2-0 to 25-10-0, Exterior(2R) 25-10-0 to 31-0-0, Interior (1) 31-0-0 to 51-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding. All plates are 4x6 (=) MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 1, 121 lb uplift at joint 9, 338 lb uplift at joint 16 and 320 lb uplift at joint 10.

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.

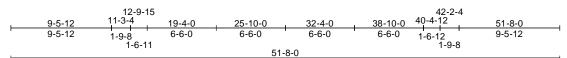
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

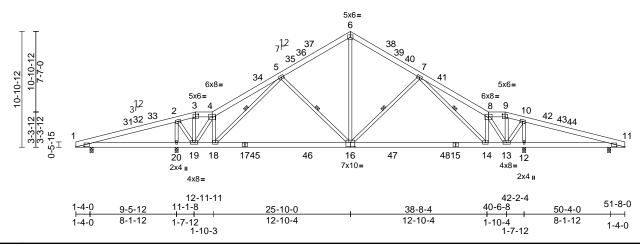
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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	Jane SC 1646	
2504375-28480	A3	Roof Special	1	1	Job Reference (optional)	175344332

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:46 ID:HXpxr84N4t?JPScmmQjRbkysFy9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:108.4

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

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	0.42	Vert(LL)	-0.19	16-18	>999	240	MT20	244/190
Snow (Pf/Pg)	12.7/10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.34	16-18	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.03	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 357 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-9 oc purlins, except

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

BOT CHORD bracing

WFRS 1 Row at midpt 5-18, 5-16, 7-16, 7-14

REACTIONS (size) 1=0-3-8, 11=0-3-8, 12=0-3-8,

20=0-3-8

1=-164 (LC 17) Max Horiz

Max Uplift 1=-145 (LC 12), 11=-131 (LC 13), 12=-327 (LC 17), 20=-344 (LC 16)

1=310 (LC 51), 11=310 (LC 56),

12=2005 (LC 3), 20=2005 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-2=-100/575, 2-3=-279/132, 3-4=-191/113. TOP CHORD

4-5=-1418/374, 5-6=-1357/417,

6-7=-1347/414, 7-8=-1419/367, 8-9=-191/91,

9-10=-279/116, 10-11=-98/540 BOT CHORD

1-20=-452/189, 19-20=-452/189

18-19=-190/1222, 14-18=-208/1414,

13-14=-141/1148, 12-13=-440/118,

11-12=-440/118

WEBS 3-19=-112/253, 4-19=-1925/296, 4-18=0/783,

5-18=-234/76, 5-16=-375/239,

6-16=-236/974, 7-16=-376/250,

7-14=-233/80, 8-14=0/774, 8-13=-1924/301, 9-13=-112/253, 2-20=-1436/434,

2-19=-187/1081, 10-12=-1436/431,

10-13=-195/1075

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-2-0, Interior (1) 5-2-0 to 11-3-4, Exterior(2E) 11-3-4 to 12-9-15, Interior (1) 12-9-15 to 25-10-0, Exterior(2R) 25-10-0 to 31-0-0, Interior (1) 31-0-0 to 40-4-12, Exterior(2R) 40-4-12 to 45-6-12, Interior (1) 45-6-12 to 51-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=12.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 (=) MT20 unless otherwise indicated.
- 8) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 1, 131 lb uplift at joint 11, 344 lb uplift at joint 20 and 327 lb uplift at joint 12.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



August 4,2025

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

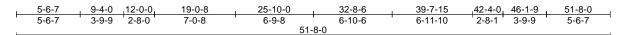
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

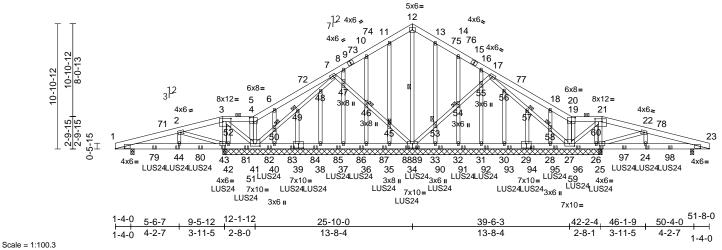


Job	Truss	Truss Type	Qty	Ply	Jane SC 1646	
2504375-28480	A4	Roof Special Girder	1	1	Job Reference (optional)	175344333

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:47 ID:fZXEQ2DTrmmQcPVk?1NQ8ZysFu5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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[1:0-9-3,0-0-8], [3:0-8-8,0-3-4], [5:0-4-0,0-4-4], [19:0-4-0,0-4-4], [21:0-7-4,0-3-0], [23:0-9-3,0-0-8], [27:0-5-0,0-2-8], [29:0-5-0,0-4-8], [34:0-5-0,0-4-8], [39:0-5-0,0-

Plate Offsets (Χ,	Y):	[41:0-5-0,0-2-8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.02	44-65	>999	240	MT20	244/190
Snow (Pf/Pg)	12.7/10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.03	44-65	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.01	23	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 466 lb	FT = 20%

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

BRACING

LUMBER

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

2-0-0 oc purlins (10-0-0 max.): 3-5, 19-21.

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

bracing, Except:

10-0-0 oc bracing: 1-44,43-44,24-25,23-24. WEBS 1 Row at midpt 12-34 **JOINTS**

1 Brace at Jt(s): 45, 46, 49, 50, 53, 54,

57, 58

REACTIONS (size) 1=0-3-8, 23=0-3-8, 25=33-0-0, 26=33-0-0, 27=33-0-0, 28=33-0-0,

29=33-0-0, 30=33-0-0, 31=33-0-0, 32=33-0-0, 33=33-0-0, 34=33-0-0, 35=33-0-0, 36=33-0-0, 37=33-0-0,

38=33-0-0, 39=33-0-0, 40=33-0-0, 41=33-0-0, 42=33-0-0, 43=33-0-0

Max Horiz 1=-164 (LC 70)

Max Uplift 1=-204 (LC 8), 23=-185 (LC 9), 25=-559 (LC 9), 26=-543 (LC 2), 27=-80 (LC 13), 28=-220 (LC 13), 29=-81 (LC 9), 30=-87 (LC 13), 31=-90 (LC 13), 32=-153 (LC 13) 33=-127 (LC 13), 34=-219 (LC 12), 35=-135 (LC 12), 36=-147 (LC 12), 37=-103 (LC 12), 38=-87 (LC 12), 39=-82 (LC 8), 40=-224 (LC 12), 41=-119 (LC 8), 42=-549 (LC 2), 43=-572 (LC 12)

Max Grav 1=713 (LC 63), 23=713 (LC 64), 25=2135 (LC 64), 26=133 (LC 13),

27=257 (LC 64), 28=537 (LC 64), 29=334 (LC 63), 30=391 (LC 64), 31=396 (LC 64), 32=425 (LC 64), 33=448 (LC 2), 34=816 (LC 2), 35=448 (LC 2), 36=422 (LC 63)

37=397 (LC 63), 38=387 (LC 63), 39=334 (LC 64), 40=540 (LC 63), 41=255 (LC 63), 42=138 (LC 12),

43=2141 (LC 63)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=-904/317, 2-3=-176/392, 3-4=-130/172, 4-5=-130/172, 5-6=-144/240, 6-7=-73/249, 7-8=-57/120, 8-10=-48/146, 10-11=-25/163,

11-12=-19/171, 12-13=-16/161,

13-14=-11/139, 14-16=-7/108, 16-17=-8/76, 17-18=-31/240, 18-19=-84/218, 19-20=-77/144, 20-21=-77/144,

21-22=-106/393, 22-23=-904/258

BOT CHORD 1-44=-293/846, 43-44=-293/846, 42-43=-377/232, 41-42=-377/232,

40-41=-58/188, 38-40=-58/188, 37-38=-58/188, 36-37=-58/188, 35-36=-58/188, 33-35=-58/188, 32-33=-44/139, 31-32=-44/139,

30-31=-44/139, 28-30=-44/139, 27-28=-44/139, 26-27=-378/172

25-26=-378/172, 24-25=-211/846,

23-24=-211/846



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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

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Job Truss Truss Type Qtv Ply Jane SC 1646 175344333 2504375-28480 **A4** Roof Special Girder Job Reference (optional)

Dead + Snow (balanced): Lumber Increase=1 15 Plate

1)

Increase=1.15

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334.

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:47

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Page: 2

WEBS

2-44=-123/561 2-43=-1268/384 3-43=-471/141, 3-52=-39/273, 51-52=-46/316, 41-51=-50/322, 5-41=-42/72, 12-34=-183/0, 19-27=-19/54, 27-59=-61/320, 59-60=-66/314, 21-60=-54/273, 21-25=-471/132, 22-25=-1268/375 22-24=-122/561, 7-47=-158/145, 46-47=-144/138, 45-46=-149/141, 34-45=-152/143, 41-50=-206/25, 49-50=-199/23, 48-49=-198/24, 7-48=-252/31, 34-53=-156/152, 53-54=-153/149, 54-55=-149/147, 17-55=-161/153, 17-56=-255/37, 56-57=-198/29, 57-58=-198/28, 27-58=-206/30, 11-45=-145/64, 35-45=-142/61, 10-46=-105/73, 36-46=-97/69, 8-47=-57/14, 37-47=-77/24, 38-48=-74/12, 39-49=-1/3, 6-50=-304/157 40-50=-295/157, 4-51=-11/34, 42-52=-68/19, 13-53=-140/57, 33-53=-138/53, 14-54=-110/79, 32-54=-104/75, 16-55=-53/3, 31-55=-69/12, 30-56=-78/12, 29-57=0/2, 18-58=-300/155, 28-58=-291/153, 20-59=-10/29, 26-60=-67/20

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=12.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 204 lb uplift at joint 1, 185 lb uplift at joint 23, 572 lb uplift at joint 43, 119 lb uplift at joint 41, 219 lb uplift at joint 34, 80 lb uplift at joint 27, 559 lb uplift at joint 25, 135 lb uplift at joint 35, 147 lb uplift at joint 36, 103 lb uplift at joint 37, 87 lb uplift at joint 38, 82 lb uplift at joint 39, 224 lb uplift at joint 40, 549 lb uplift at joint 42, 127 lb uplift at joint 33, 153 lb uplift at joint 32, 90 lb uplift at joint 31, 87 lb uplift at joint 30, 81 lb uplift at joint 29, 220 lb uplift at joint 28 and 543 lb uplift at joint 26.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 3-4-12 from the left end to 48-3-4 to connect truss(es) to front face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Uniform Loads (lb/ft) Vert: 1-3=-35, 3-5=-45, 5-12=-35, 12-19=-35, 19-21=-45, 21-23=-35, 61-66=-20 Concentrated Loads (lb) Vert: 44=-240 (F), 43=-243 (F), 25=-243 (F), 24=-240 (F), 79=-263 (F), 80=-217 (F), 81=-243 (F), 82=-243 (F), 83=-243 (F), 84=-243 (F), 85=-243 (F), 86=-243 (F), 87=-243 (F), 88=-243 (F), 89=-243 (F), 90=-243 (F), 91=-243 (F), 92=-243 (F), 93=-243 (F), 94=-243 (F), 95=-243 (F), 96=-243 (F), 97=-217 (F), 98=-263

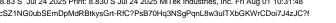


August 4,2025



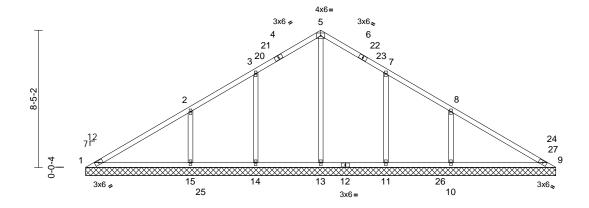
Job	Truss	Truss Type	Qty	Ply	Jane SC 1646	
2504375-28480	AV1	Valley	2	1	Job Reference (optional)	175344334

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries. Inc. Fri Aug 01 10:31:48 ID:RtcSZ1NG0ubSEmDpMdRBtkysGrt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1





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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.37	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.58	Horiz(TL)	0.01	15	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0	1		1							Weight: 128 lb	FT = 20%

28-9-12

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 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=28-10-10, 9=28-10-10,

10=28-10-10, 11=28-10-10, 13=28-10-10, 14=28-10-10,

15=28-10-10

Max Horiz 1=193 (LC 13)

Max Uplift 1=-14 (LC 12), 10=-185 (LC 17),

11=-113 (LC 17), 14=-112 (LC 16),

15=-188 (LC 16)

Max Grav 1=122 (LC 35), 9=92 (LC 36),

10=629 (LC 30), 11=392 (LC 30), 13=721 (LC 29), 14=391 (LC 29),

15=633 (LC 29)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-192/460, 2-3=-62/377, 3-5=0/362,

TOP CHORD

5-7=0/347, 7-8=-9/317, 8-9=-137/399 1-15=-288/167, 14-15=-288/167,

BOT CHORD

13-14=-288/167, 11-13=-288/167,

10-11=-288/167, 9-10=-288/167

5-13=-503/7. 3-14=-231/144. 2-15=-365/194.

7-11=-231/144, 8-10=-363/193

WFBS NOTES

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 14-5-5, Exterior(2R) 14-5-5 to 17-5-5, Interior (1) 17-5-5 to 28-4-2 zone; cantilever 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 10) 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1, 112 lb uplift at joint 14, 188 lb uplift at joint 15, 113 lb uplift at joint 11 and 185 lb uplift at joint 10.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 9.

LOAD CASE(S) Standard



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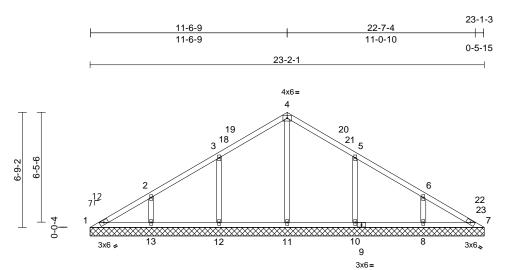
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/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	Jane SC 1646	
2504375-28480	AV2	Valley	2	1	Job Reference (optional)	175344335

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Scale = 1:67.7

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	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0			1							Weight: 98 lb	FT = 20%

23-1-3

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 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=23-2-1, 7=23-2-1, 8=23-2-1, 10=23-2-1, 11=23-2-1, 12=23-2-1,

13=23-2-1

Max Horiz 1=154 (LC 13)

Max Uplift 1=-18 (LC 12), 8=-114 (LC 17), 10=-138 (LC 17), 12=-137 (LC 16),

13=-117 (LC 16)

Max Grav 1=121 (LC 30), 7=76 (LC 29),

8=392 (LC 30), 10=440 (LC 30), 11=444 (LC 29), 12=439 (LC 29),

13=397 (LC 29)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-186/164, 2-3=-83/142, 3-4=-72/143, 4-5=-72/131, 5-6=-37/97, 6-7=-123/116

BOT CHORD 1-13=-66/165, 12-13=-66/97, 11-12=-66/97, 10-11=-66/97, 8-10=-66/97, 7-8=-66/108

WFRS 4-11=-241/0, 3-12=-273/163, 2-13=-244/131,

5-10=-274/164, 6-8=-242/130

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 11-7-0, Exterior(2R) 11-7-0 to 14-7-0, Interior (1) 14-7-0 to 22-7-9 zone; cantilever 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 3) 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 10) 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1, 137 lb uplift at joint 12, 117 lb uplift at joint 13, 138 lb uplift at joint 10 and 114 lb uplift at joint 8.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 7.

LOAD CASE(S) Standard



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Page: 1

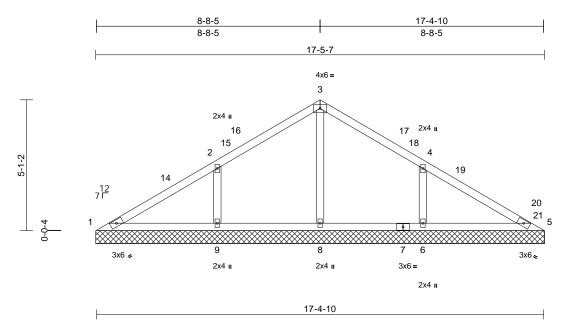
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Job	Truss	Truss Type	Qty	Ply	Jane SC 1646	
2504375-28480	AV3	Valley	2	1	Job Reference (optional)	175344336

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Scale = 1:44.8

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	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 67 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 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=17-5-7, 5=17-5-7, 6=17-5-7,

8=17-5-7, 9=17-5-7 Max Horiz 1=115 (LC 13)

1=-9 (LC 17), 6=-156 (LC 17), 8=-3 Max Uplift

(LC 16), 9=-159 (LC 16)

1=102 (LC 35), 5=73 (LC 36), Max Grav

6=423 (LC 30), 8=401 (LC 2), 9=427 (LC 29)

(lb) - Maximum Compression/Maximum

Tension

1-2=-130/247, 2-3=-14/195, 3-4=0/193,

4-5=-107/216

1-9=-138/129, 8-9=-138/91, 6-8=-138/91,

5-6=-138/95

3-8=-345/32, 2-9=-303/168, 4-6=-302/167

WEBS NOTES

FORCES

TOP CHORD

BOT CHORD

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 8-8-12, Exterior(2R) 8-8-12 to 11-8-12, Interior (1) 11-8-12 to 16-11-0 zone; cantilever 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 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.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 1, 3 lb uplift at joint 8, 159 lb uplift at joint 9 and 156 lb uplift at joint 6.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.

LOAD CASE(S) Standard



August 4,2025

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

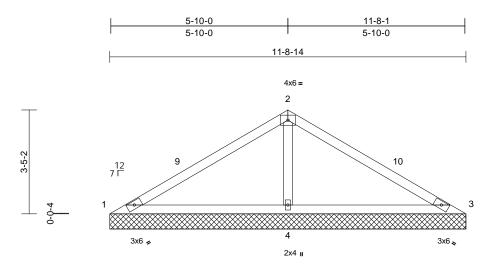
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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property 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	Jane SC 1646	
2504375-28480	AV4	Valley	2	1	Job Reference (optional)	175344337

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Scale = 1:38

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	0.41	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.35	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 40 lb	FT = 20%

11-8-1

ш	М	R	F	R

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 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=11-8-14, 3=11-8-14, 4=11-8-14

Max Horiz 1=-76 (LC 12)

Max Uplift 1=-53 (LC 36), 3=-53 (LC 35),

4=-167 (LC 16)

1=64 (LC 35), 3=64 (LC 36), 4=926 Max Grav

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-153/494, 2-3=-153/494

TOP CHORD 1-4=-358/191, 3-4=-358/191 BOT CHORD

WFBS 2-4=-732/270

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-10-7, Exterior(2R) 5-10-7 to 8-10-7, Interior (1) 8-10-7 to 11-8-14 zone; cantilever 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.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 1, 53 lb uplift at joint 3 and 167 lb uplift at joint 4.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



August 4,2025

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

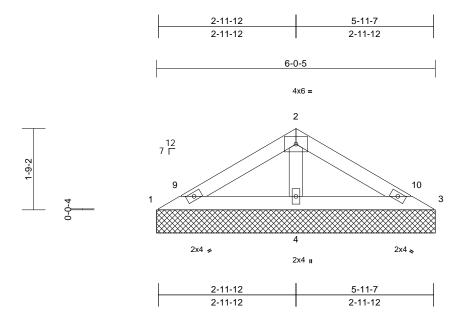
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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	Jane SC 1646	
2504375-28480	AV5	Valley	2	1	Job Reference (optional)	175344338

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:49 ID:wElvusTOpp?NCu_XxvN5fOysG26-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:24.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 19 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-7 oc purlins.

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

bracing.

REACTIONS (size) 1=6-0-5, 3=6-0-5, 4=6-0-5

Max Horiz 1=-37 (LC 12)

1=-11 (LC 16), 3=-17 (LC 17), Max Uplift

4=-60 (LC 16)

1=70 (LC 35), 3=70 (LC 36), 4=377 Max Grav

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-70/152, 2-3=-70/152

1-4=-126/106, 3-4=-126/106 BOT CHORD

WFBS 2-4=-247/135

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this 5) design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 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.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1, 17 lb uplift at joint 3 and 60 lb uplift at joint 4.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



August 4,2025

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

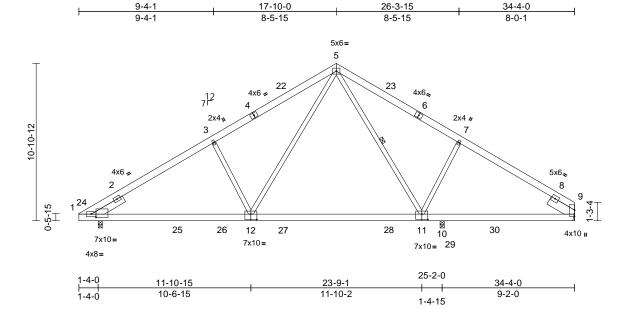
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	Jane SC 1646	
2504375-28480	B1	Common	6	1	Job Reference (optional)	175344339

Run: 8.83 E Feb 18 2025 Print: 8.830 E Feb 18 2025 MiTek Industries, Inc. Mon Aug 04 16:22:25 ID:zYfJJgd_sDqYw3IyLllcFEysGAx-1hedvJY1qLK83tu0zWvLfxFx6onuK6JsEIE15WyrL6i

Page: 1



Scale = 1:79.8

Plate Offsets (X, Y): [1:0-4-0,0-2-12], [9:0-5-6,0-0-1], [11:0-5-0,0-4-8], [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	0.61	Vert(LL)	-0.30	11-12	>999	240	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.51	11-12	>594	180	1	
TCDL	10.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.05	9	n/a	n/a	1	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 237 lb	FT = 20%

LUMBER

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

SLIDER Left 2x6 SP No.2 -- 2-6-0, Right 2x8 SP DSS

-- 2-0-0

BRACING TOP CHORD

Structural wood sheathing directly applied or

4-1-1 oc purlins.

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

bracing.

WEBS 1 Row at midpt

REACTIONS (lb/size) 1=832/0-3-8, 9=629/ Mechanical. 10=389/0-3-8

Max Horiz 1=-226 (LC 12)

Max Uplift 1=-188 (LC 16), 9=-157 (LC 17),

10=-83 (LC 17)

Max Grav 1=1423 (LC 29), 9=1090 (LC 30),

10=650 (LC 30)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-324/37, 2-3=-1850/296, 3-4=-1711/333,

4-22=-1602/344, 5-22=-1579/367, 5-23=-1181/310, 6-23=-1201/286,

6-7=-1312/275, 7-8=-1451/239, 8-9=-227/15

BOT CHORD 1-24=0/0, 1-24=0/0, 1-25=-305/1654,

25-26=-305/1654, 12-26=-305/1654, 12-27=-71/1000, 27-28=-71/1000,

11-28=-71/1000, 10-11=-110/1149, 10-29=-110/1149, 29-30=-110/1149,

9-30=-110/1149

WEBS 3-12=-392/283, 5-12=-218/976,

5-11=-132/307, 7-11=-412/284

NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 1-5-12 to 4-10-15, Interior (1) 4-10-15 to 17-10-0, Exterior(2R) 17-10-0 to 21-3-3, Interior (1) 21-3-3 to 34-4-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 1, 157 lb uplift at joint 9 and 83 lb uplift at joint 10.

LOAD CASE(S) Standard

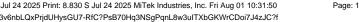


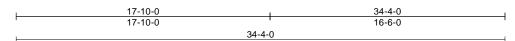
August 4,2025

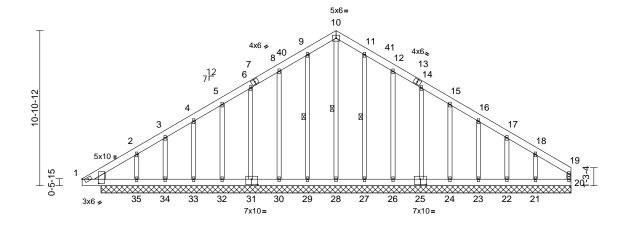


Job	Truss	Truss Type	Qty	Ply	Jane SC 1646	
2504375-28480	B1E	Common Supported Gable	1	1	Job Reference (optional)	175344340

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries. Inc. Fri Aug 01 10:31:50 ID:wIS4anmi3v6nbLQxPrjdUHysGU7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:80.9 Plate Offsets (X, Y): [1:0-7-6,0-1-1], [1:0-3-8,1-1-15], [25:0-5-0,0-4-8], [31:0-5-0,0-4-8]

		, ,,,	. 1, 1										
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	
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999	1		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	20	n/a	n/a	1		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS									
BCDL	10.0										Weight: 302 lb	FT = 20%	

34-4-0

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

WEDGE Left: 2x6 SP No.2 BRACING

TOP CHORD

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

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

bracing.

WEBS 1 Row at midpt 10-28, 9-29, 11-27 REACTIONS (size) 1=33-0-0, 20=33-0-0, 21=33-0-0, 22=33-0-0, 23=33-0-0, 24=33-0-0,

25=33-0-0, 26=33-0-0, 27=33-0-0, 28=33-0-0, 29=33-0-0, 30=33-0-0, 31=33-0-0, 32=33-0-0, 33=33-0-0,

34=33-0-0, 35=33-0-0 Max Horiz 1=226 (LC 13)

Max Uplift 1=-104 (LC 12), 20=-22 (LC 13),

21=-138 (LC 17), 22=-42 (LC 17),

23=-67 (LC 17), 24=-60 (LC 17), 25=-64 (LC 17), 26=-74 (LC 17), 27=-27 (LC 17), 29=-37 (LC 16), 30=-71 (LC 16), 31=-63 (LC 16),

32=-60 (LC 16), 33=-70 (LC 16),

34=-29 (LC 16), 35=-175 (LC 16) Max Grav 1=230 (LC 30), 20=121 (LC 29),

21=228 (LC 30), 22=153 (LC 2), 23=170 (LC 30), 24=166 (LC 30), 25=167 (LC 30), 26=168 (LC 30), 27=163 (LC 36), 28=206 (LC 32) 29=174 (LC 29), 30=165 (LC 29),

31=167 (LC 29), 32=166 (LC 29),

33=172 (LC 29), 34=153 (LC 2), 35=262 (LC 29)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-219/199, 2-3=-174/158, 3-4=-165/159, 4-5=-150/167, 5-6=-137/195, 6-8=-126/223,

8-9=-157/255. 9-10=-171/270. 10-11=-171/270, 11-12=-157/241, 12-14=-126/190, 14-15=-100/143,

15-16=-73/97, 16-17=-68/61, 17-18=-79/45.

18-19=-108/78, 19-20=-88/17

BOT CHORD 1-35=-135/148, 34-35=-59/101, 33-34=-59/101, 32-33=-59/101

30-32=-59/102. 29-30=-59/102. 28-29=-59/102, 27-28=-59/102, 26-27=-59/102, 24-26=-59/102,

23-24=-58/101, 22-23=-58/101 21-22=-58/101, 20-21=-58/101

10-28=-188/65, 9-29=-133/49, 8-30=-126/83, 6-31=-126/75, 5-32=-126/73, 4-33=-128/76, 3-34=-117/62, 2-35=-173/127, 11-27=-122/39,

12-26=-130/86, 14-25=-126/76,

15-24=-126/73, 16-23=-128/76, 17-22=-118/64, 18-21=-165/119

WEBS

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 1-4-0 to 4-9-3, Exterior(2N) 4-9-3 to 17-10-0, Corner(3R) 17-10-0 to 21-3-3, Exterior(2N) 21-3-3 to 34-2-4 zone; cantilever 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component. All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



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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	Jane SC 1646	
2504375-28480	B1E	Common Supported Gable	1	1	Job Reference (optional)	175344340

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:50 ID:wIS4 anmi3v6 nbLQxPrjdUHysGU7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff Page: 2

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 20, 104 lb uplift at joint 1, 37 lb uplift at joint 29, 71 lb 20, 104 ib uplift at joint 1, 37 ib uplift at joint 29, 71 ib uplift at joint 30, 63 lb uplift at joint 31, 60 lb uplift at joint 32, 70 lb uplift at joint 33, 29 lb uplift at joint 34, 175 lb uplift at joint 35, 27 lb uplift at joint 27, 74 lb uplift at joint 26, 64 lb uplift at joint 25, 60 lb uplift at joint 24, 67 lb uplift at joint 23, 42 lb uplift at joint 22, 138 lb uplift at joint 21 and 104 lb uplift at joint 1.

12) Non Standard bearing condition. Review required.

LOAD CASE(S) Standard

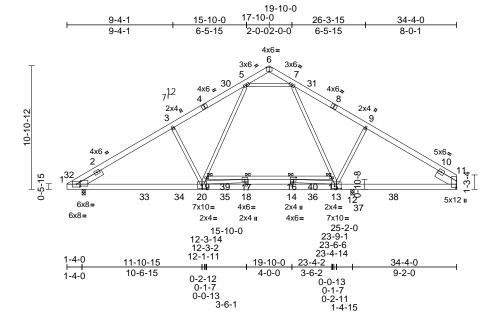




Job	Truss	Truss Type	Qty	Ply	Jane SC 1646	
2504375-28480	B1M	Common	7	1	Job Reference (optional)	175344341

Run: 8.83 E Feb 18 2025 Print: 8.830 E Feb 18 2025 MiTek Industries, Inc. Mon Aug 04 16:24:17 ID:n4s09rTmTjj9PJyVjb05M?ysGCR-IEPzQcuHSmRFV4RYX2wcCZu2ox??ZnxL_jMy10yrL4y

Page: 1



Scale = 1:101.6

Plate Offsets (X, Y): [1:0-3-8,0-3-0], [1:0-4-0,0-2-0], [6:0-3-0,Edge], [11:0-7-2,0-0-1], [13:0-5-0,0-4-8], [16:0-2-11,0-2-3], [20:0-5-0,0-4-8]

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	0.74	Vert(LL)	-0.22	16-17	>999	240	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.37	16-17	>808	180	1	
TCDL	10.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.09	11	n/a	n/a	1	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0			1							Weight: 265 lb	FT = 20%

LUMBER

2x6 SP No.2 TOP CHORD

BOT CHORD 2x6 SP No.2 *Except* 19-15:2x4 SP No.2

WEBS 2x4 SP No.2

SLIDER Left 2x6 SP No.2 -- 2-6-0, Right 2x8 SP DSS

-- 2-0-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-1-0 oc purlins.

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

bracing, Except: 6-0-0 oc bracing: 17-19 4-1-4 oc bracing: 16-17.

REACTIONS (lb/size)

1=963/0-3-8, 11=788/ Mechanical,

12=325/0-3-8 Max Horiz 1=-226 (LC 12)

Max Uplift 1=-204 (LC 16), 11=-186 (LC 16),

12=-150 (LC 17)

1=1735 (LC 30), 11=1407 (LC 30), Max Grav

12=740 (LC 31)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-501/9. 2-3=-2325/314. 3-4=-2184/348.

4-30=-2080/356, 5-30=-2052/367,

5-6=-48/164, 6-7=-93/26, 7-31=-1694/379, 8-31=-1712/371, 8-9=-1831/352,

9-10=-2007/335, 10-11=-296/29

BOT CHORD 1-32=0/0, 1-32=0/0, 1-33=-316/2051, 33-34=-316/2051, 20-34=-316/2051,

20-35=0/2976, 18-35=0/2976, 14-18=0/2976,

14-36=0/2976, 13-36=0/2976,

12-13=-212/1638, 12-37=-212/1638,

37-38=-212/1638, 11-38=-212/1638, 19-39=-132/22, 17-39=-132/22,

16-17=-1777/0, 16-40=-3/39, 15-40=-3/39

WEBS

3-20=-352/254, 19-20=-127/967, 5-19=-127/1078, 7-15=-78/421,

13-15=-89/366, 9-13=-321/264, 5-7=-1466/367, 17-18=-1/107,

17-20=-1701/0, 14-16=-10/157,

13-16=-1834/0

NOTES

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

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 1-5-12 to 4-10-15, Interior (1) 4-10-15 to 17-10-0, Exterior(2R) 17-10-0 to 21-3-3 Interior (1) 21-3-3 to 34-4-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip

DOL=1.60 TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

Unbalanced snow loads have been considered for this desian.

Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.

This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads

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

All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

Refer to girder(s) for truss to truss connections.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 204 lb uplift at joint 1, 186 lb uplift at joint 11 and 150 lb uplift at joint 12.

11) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

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.

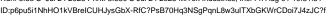
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

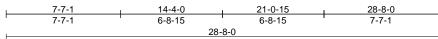
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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

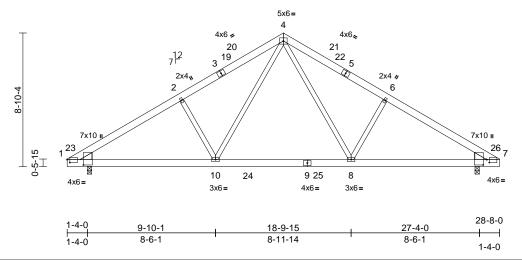


Job	Truss	Truss Type	Qty	Ply	Jane SC 1646	
2504375-28480	C1	Common	16	1	Job Reference (optional)	175344342

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:51







Scale = 1:76.4

Plate Offsets (X, Y): [1:0-2-1,0-2-6], [1:0-4-4,1-0-15], [7:0-2-1,0-2-6], [7:0-4-4,0-2-13]

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	0.49	Vert(LL)	-0.15	8-10	>999	240	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.26	8-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.03	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 189 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-2-9 oc purlins.

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

bracing.

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

Max Horiz 1=-176 (LC 12)

Max Uplift 1=-159 (LC 16), 7=-159 (LC 17)

Max Grav 1=1214 (LC 29), 7=1214 (LC 30)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1554/249, 2-4=-1415/298,

4-6=-1415/298, 6-7=-1554/249 1-10=-256/1358, 8-10=-79/944,

BOT CHORD 7-8=-143/1227

WEBS 4-8=-154/607, 6-8=-284/220, 4-10=-154/607,

2-10=-284/220

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 1-5-12 to 4-5-12, Interior (1) 4-5-12 to 14-4-0, Exterior(2R) 14-4-0 to 17-4-0, Interior (1) 17-4-0 to 27-2-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 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 159 lb uplift at joint 7 and 159 lb uplift at joint 1.

LOAD CASE(S) Standard



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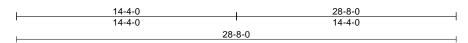
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Job	Truss	Truss Type	Qty	Ply	Jane SC 1646	
2504375-28480	C1E	Common Supported Gable	1	1	Job Reference (optional)	175344343

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:51 ID:TmAZStCDr4cGtQ5UqASDinysGa0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



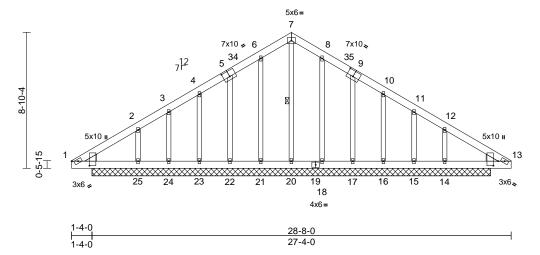


Plate Offsets (X, Y): [1:0-7-6,0-1-1], [1:0-3-8,1-1-15], [5:0-5-0,0-4-8], [9:0-5-0,0-4-8], [13:0-1-6,0-1-1], [13:0-3-8,0-3-13]

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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	13	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 226 lb	FT = 20%

LUMBER

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

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 7-20

REACTIONS (size)

1=26-0-0. 13=26-0-0. 14=26-0-0. 15=26-0-0, 16=26-0-0, 17=26-0-0, 18=26-0-0, 20=26-0-0. 21=26-0-0. 22=26-0-0, 23=26-0-0, 24=26-0-0, 25=26-0-0

Max Horiz 1=-178 (LC 12)

1=-43 (LC 12), 13=-6 (LC 13), Max Uplift

14=-144 (LC 17), 15=-35 (LC 17), 16=-63 (LC 17), 17=-71 (LC 17), 18=-44 (LC 17), 21=-48 (LC 16), 22=-69 (LC 16), 23=-64 (LC 16),

24=-31 (LC 16), 25=-157 (LC 16) Max Grav 1=208 (LC 30), 13=180 (LC 29),

14=254 (LC 30), 15=144 (LC 2), 16=165 (LC 30), 17=168 (LC 30), 18=170 (LC 30), 20=161 (LC 32), 21=174 (LC 29), 22=167 (LC 29), 23=166 (LC 29), 24=144 (LC 2),

25=268 (LC 29)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-156/124, 2-3=-130/96, 3-4=-120/115, 4-6=-123/172, 6-7=-143/207, 7-8=-143/207, 8-10=-123/170, 10-11=-85/84, 11-12=-97/57,

12-13=-119/75

BOT CHORD 1-25=-115/132, 24-25=-60/99, 23-24=-60/99,

22-23=-60/99, 21-22=-60/100, 20-21=-60/100, 18-20=-60/100,

17-18=-60/100, 16-17=-59/98, 15-16=-59/98, 14-15=-59/98, 13-14=-59/98

7-20=-134/43, 6-21=-134/59, 5-22=-128/82,

4-23=-121/71, 3-24=-112/60, 2-25=-182/126. 8-18=-130/56, 9-17=-129/84, 10-16=-121/71,

11-15=-114/62, 12-14=-176/121

NOTES

WFBS

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 1-4-0 to 4-4-0, Exterior(2N) 4-4-0 to 14-4-0, Corner(3R) 14-4-0 to 17-4-0, Exterior(2N) 17-4-0 to 27-4-0 zone; cantilever 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 1, 6 lb uplift at joint 13, 48 lb uplift at joint 21, 69 lb uplift at joint 22, 64 lb uplift at joint 23, 31 lb uplift at joint 24, 157 lb uplift at joint 25, 44 lb uplift at joint 18, 71 lb uplift at joint 17, 63 lb uplift at joint 16, 35 lb uplift at joint 15, 144 lb uplift at joint 14, 43 lb uplift at joint 1 and 6 lb uplift at joint 13.
- 12) Non Standard bearing condition. Review required.

LOAD CASE(S) Standard



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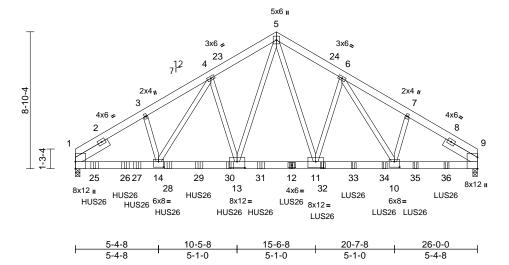


Job Truss Truss Type Qtv Ply Jane SC 1646 175344344 3 2504375-28480 C1G Common Girder Job Reference (optional)

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334.

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:52 ID:hN_d1dEnh2Cu4cALTIAVCFysFdI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:74.5

Plate Offsets (X, Y): [10:0-4-0,0-4-4], [11:0-6-0,0-4-12], [13:0-6-0,0-4-12], [14:0-4-0,0-4-4]

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	0.85	Vert(LL)	-0.13	13-14	>999	240	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.24	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.07	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 641 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-5-3 oc purlins.

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

bracing

REACTIONS (size) 1=0-3-8. 9=0-3-8

1=-178 (LC 36) Max Horiz

Max Uplift 1=-1447 (LC 12), 9=-1212 (LC 13)

Max Grav 1=10120 (LC 25), 9=8130 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-12807/1858. 3-4=-12442/1871.

4-5=-10327/1600, 5-6=-9840/1552,

6-7=-10732/1683, 7-9=-11079/1668

BOT CHORD 1-14=-1593/10654, 13-14=-1374/9504, 11-13=-986/7195, 10-11=-1227/8756,

9-10=-1310/9052

WEBS 5-11=-779/4529, 6-11=-1195/334,

6-10=-275/1242, 7-10=-208/1186,

5-13=-923/5977, 4-13=-2065/433,

4-14=-464/2897, 3-14=-213/1257

NOTES

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

Top chords connected as follows: 2x6 - 2 rows

staggered at 0-9-0 oc.

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.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Bearing capacity is increased by the plate at joint(s) 1. Plate must be within 1/4 in of bearing surface.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1447 lb uplift at joint 1 and 1212 lb uplift at joint 9.
- 12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-2-14 from the left end to 12-0-0 to connect truss(es) to back face of bottom chord.

13) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max, starting at 14-0-0 from the left end to 24-0-0 to connect truss(es) to back face of bottom chord.

Page: 1

14) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-5=-35, 5-9=-35, 15-19=-20

Concentrated Loads (lb)

Vert: 12=-610 (B), 25=-768 (B), 26=-768 (B), 27=-768 (B), 28=-768 (B), 29=-768 (B), 30=-768 (B), 31=-768 (B), 32=-610 (B), 33=-610 (B), 34=-610 (B),

35=-610 (B), 36=-610 (B)



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Job	Truss	Truss Type	Qty	Ply	Jane SC 1646	
2504375-28480	CV1	Valley	1	1	Job Reference (optional)	175344345

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:52 ID:NAVddczAPEIWA_SwUpdrimysGcv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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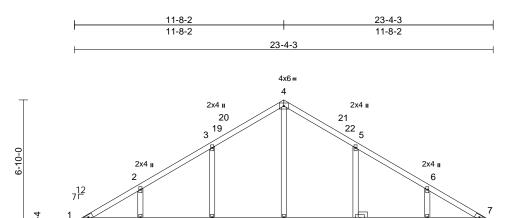
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2x4 II

3x6

Page: 1



11

2x4 II

23-4-3

12

2x4 II

13

2x4 II

3x6 🚜

Scale = 1:64.2

Plate Offsets (X, Y): [9:0-3-0,0-1-4]

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	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.28	Horiz(TL)	-0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 100 lb	FT = 20%

LUMBER

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

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=23-4-3, 7=23-4-3, 8=23-4-3, 10=23-4-3, 11=23-4-3, 12=23-4-3,

13=23-4-3

Max Horiz 1=156 (LC 13)

Max Uplift 1=-38 (LC 12), 8=-116 (LC 17), 10=-139 (LC 17), 12=-136 (LC 16),

13=-122 (LC 16)

Max Grav 1=80 (LC 35), 8=400 (LC 30),

10=432 (LC 30), 11=595 (LC 29),

12=441 (LC 29), 13=388 (LC 29)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-113/312, 2-3=-69/291, 3-4=-28/286

4-5=-28/274, 5-6=0/228, 6-7=-76/240

BOT CHORD 1-13=-173/77, 12-13=-173/69,

11-12=-173/69, 10-11=-173/69, 8-10=-173/69,

7-8=-173/69

WFBS 4-11=-385/0, 3-12=-275/163, 2-13=-240/134,

5-10=-270/164, 6-8=-246/132

NOTES

FORCES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 11-8-9. Exterior(2R) 11-8-9 to 14-8-9. Interior (1) 14-8-9 to 22-10-10 zone; cantilever 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 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.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 1, 136 lb uplift at joint 12, 122 lb uplift at joint 13, 139 lb uplift at joint 10 and 116 lb uplift at joint 8.

LOAD CASE(S) Standard



August 4,2025

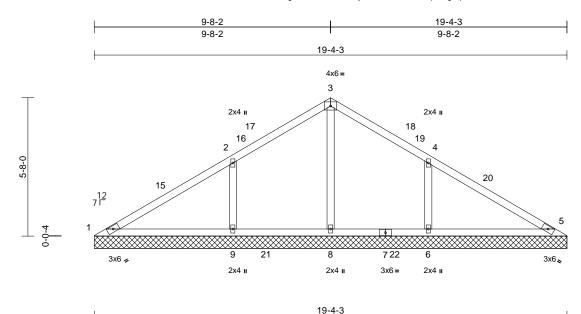
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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	Jane SC 1646	
2504375-28480	CV2	Valley	1	1	Job Reference (optional)	175344346

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries. Inc. Fri Aug 01 10:31:52 ID:VPF6nEvgM0o5hN99F_ZvYwysGcz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scal	le	=	1	:47	.2

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	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.27	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horiz(TL)	-0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 76 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 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=19-4-3, 5=19-4-3, 6=19-4-3,

8=19-4-3, 9=19-4-3 Max Horiz 1=129 (LC 13)

1=-54 (LC 36), 6=-178 (LC 17), Max Uplift

9=-185 (LC 16)

1=108 (LC 35), 5=1 (LC 30), 6=569 Max Grav

(LC 30), 8=645 (LC 29), 9=577 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-131/459, 2-3=0/385, 3-4=0/373,

4-5=-163/445

BOT CHORD 1-9=-335/112, 8-9=-335/112, 6-8=-335/112,

5-6=-335/112 WEBS

3-8=-511/9, 2-9=-348/190, 4-6=-344/188

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 9-8-9, Exterior(2R) 9-8-9 to 12-8-9, Interior (1) 12-8-9 to 18-10-10 zone; cantilever 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 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.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 1, 185 lb uplift at joint 9 and 178 lb uplift at joint 6.

LOAD CASE(S) Standard



August 4,2025

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

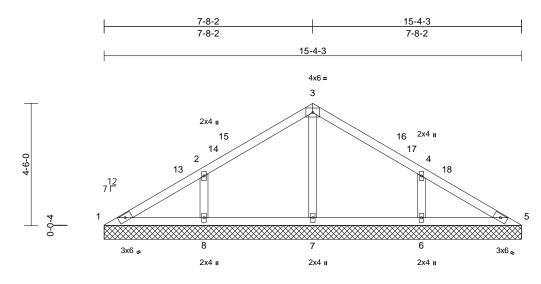
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	Jane SC 1646	
2504375-28480	CV3	Valley	1	1	Job Reference (optional)	175344347

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:52 ID:ce0bxts9InIfDIrO08UzO4ysGd1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.4

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	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 58 lb	FT = 20%

15-4-3

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=15-4-3, 5=15-4-3, 6=15-4-3, 7=15-4-3, 8=15-4-3

Max Horiz 1=102 (LC 15)

1=-15 (LC 17), 5=-6 (LC 17), Max Uplift

6=-137 (LC 17), 8=-138 (LC 16)

Max Grav 1=94 (LC 35), 5=94 (LC 36), 6=369 (LC 30), 7=338 (LC 2), 8=370 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-130/150, 2-3=-38/126, 3-4=-33/114,

4-5=-120/117

1-8=-69/125, 7-8=-69/70, 6-7=-69/70,

5-6=-69/98 WEBS

3-7=-266/24, 2-8=-271/152, 4-6=-270/151

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 7-8-9, Exterior(2R) 7-8-9 to 10-8-9, Interior (1) 10-8-9 to 15-4-10 zone; cantilever 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this 5) design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 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.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 6 lb uplift at joint 5, 138 lb uplift at joint 8 and 137 lb uplift at joint 6.

LOAD CASE(S) Standard



August 4,2025

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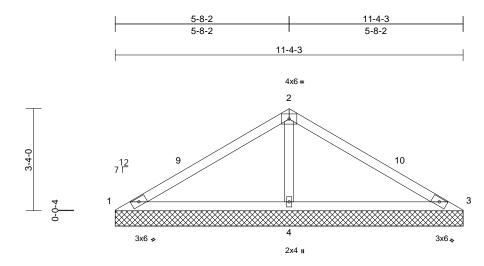
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Job	Truss	Truss Type	Qty	Ply	Jane SC 1646	
2504375-28480	CV4	Valley	1	1	Job Reference (optional)	175344348

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:53 ID:V8jhDQi?MnfV9lLulvlwMKysGdE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:37.6

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	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.33	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 39 lb	FT = 20%

11-4-3

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.2 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=11-4-3, 3=11-4-3, 4=11-4-3

Max Horiz 1=-74 (LC 12)

Max Unlift 1=-44 (LC 36), 3=-44 (LC 35),

4=-156 (LC 16)

1=70 (LC 35), 3=70 (LC 36), 4=874 Max Grav

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-141/452, 2-3=-141/452 1-4=-324/180, 3-4=-324/180 BOT CHORD

2-4=-683/259

WFBS NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 5-8-9, Exterior(2R) 5-8-9 to 8-8-9, Interior (1) 8-8-9 to 11-4-10 zone; cantilever 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.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 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.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 1, 44 lb uplift at joint 3 and 156 lb uplift at joint 4.

LOAD CASE(S) Standard



August 4,2025

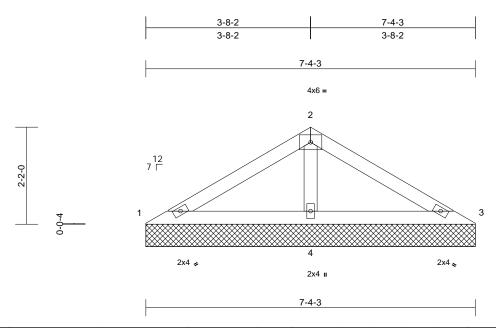
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Job	Truss	Truss Type	Qty	Ply	Jane SC 1646	
2504375-28480	CV5	Valley	1	1	Job Reference (optional)	175344349

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:53 ID:cMUAN3fVIZ93g827W3h_BUysGdl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0			1							Weight: 24 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

7-4-3 oc purlins.

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

bracing.

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

Max Horiz 1=47 (LC 15)

1=-8 (LC 16), 3=-16 (LC 17), 4=-83 Max Uplift (LC 16)

Max Grav 1=73 (LC 35), 3=73 (LC 36), 4=492

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-89/219, 2-3=-89/219

1-4=-175/135, 3-4=-175/135 BOT CHORD

WFBS 2-4=-343/173

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 3-8-9, Exterior(2R) 3-8-9 to 6-8-9, Interior (1) 6-8-9 to 7-4-10 zone; cantilever 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.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 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.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1, 16 lb uplift at joint 3 and 83 lb uplift at joint 4.

LOAD CASE(S) Standard



Page: 1

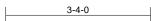
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

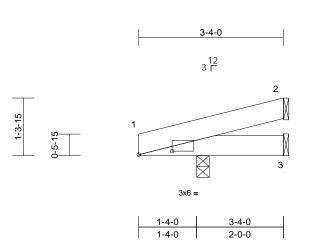
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Job	Truss	Truss Type	Qty	Ply	Jane SC 1646	
2504375-28480	J1	Jack-Open	6	1	Job Reference (optional)	175344350

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:53 ID:GFNsiLRW1qjMrl05DLxghOysGk2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:26.5

Plate Offsets (X, Y): [1:0-9-3,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	0.00	4	>999	240	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	4	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 16 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-4-0 oc purlins.

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

bracing.

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

Max Horiz 1=30 (LC 12)

Max Uplift 1=-45 (LC 12), 2=-18 (LC 12) Max Grav 1=221 (LC 2), 2=32 (LC 2), 3=22

(LC 7)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=-44/52 1-3=-28/0 BOT CHORD

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * 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 45 lb uplift at joint 1 and 18 lb uplift at joint 2.

LOAD CASE(S) Standard

August 4,2025

Page: 1

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818 Soundside Road Edenton, NC 27932

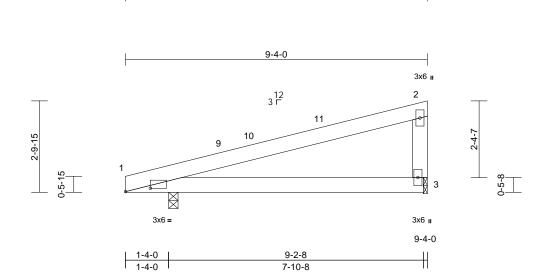
Job)	Truss	Truss Type	Qty	Ply	Jane SC 1646	
250	04375-28480	M1	Monopitch	20	1	Job Reference (optional)	175344351

9-4-0

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:53

0-1-8



Scale = 1:35.6

Plate Offsets (X, Y): [1:0-9-3,0-1-4]

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	0.30	Vert(LL)	-0.03	3-8	>999	240	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.06	3-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 49 lb	FT = 20%

LUMBER

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

BRACING

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

bracing.

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

Max Horiz 1=83 (LC 12)

Max Uplift 1=-87 (LC 12), 3=-83 (LC 12) Max Grav 1=427 (LC 2), 3=302 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-179/52, 2-3=-198/149

BOT CHORD 1-3=-153/124

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 9-1-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 3 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) 3.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 1 and 83 lb uplift at joint 3.

LOAD CASE(S) Standard



August 4,2025

Page: 1

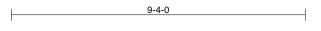
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

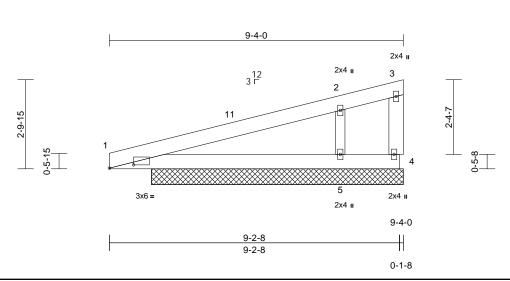
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Jane SC 1646	
2504375-28480	M1E	Monopitch Supported Gable	1	1	Job Reference (optional)	175344352

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:53 ID:kGWWd738ooH_4I?5GGstoMysGjE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:36.6

Plate Offsets (X, Y): [1:0-9-3,0-1-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	1	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 51 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

REACTIONS (size) 1=8-0-0, 4=8-0-0, 5=8-0-0

Max Horiz 1=83 (LC 12)

Max Uplift 1=-56 (LC 12), 4=-70 (LC 2),

5=-136 (LC 12)

1=317 (LC 2), 4=22 (LC 12), 5=482

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-126/69, 2-3=-36/14, 3-4=-40/38

BOT CHORD 1-5=-127/30, 4-5=-5/2

WEBS 2-5=-331/361

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 9-1-4 zone; cantilever 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 1, 70 lb uplift at joint 4, 136 lb uplift at joint 5 and 56 lb uplift at joint 1.
- 11) Non Standard bearing condition. Review required.

LOAD CASE(S) Standard



August 4,2025

Page: 1

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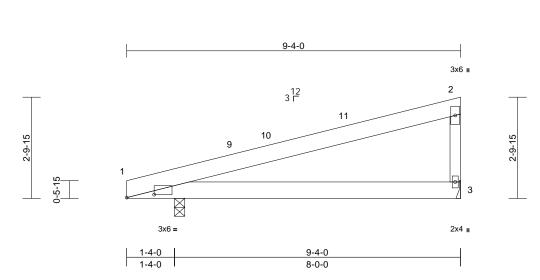


Job	Truss	Truss Type	Qty	Ply	Jane SC 1646	
2504375-28480	M2	Monopitch	18	1	Job Reference (optional)	175344353

9-4-0

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:54 ID:Lmy5GMrvUnTmOkTaZPX6w3ysGiD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:32.2

Plate Offsets (X, Y): [1:0-9-3,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.03	3-8	>999	240	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.07	3-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 47 lb	FT = 20%

LUMBER

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

BRACING

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

bracing.

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

Max Horiz 1=84 (LC 12)

Max Uplift 1=-88 (LC 12), 3=-84 (LC 12) Max Grav 1=430 (LC 2), 3=305 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-143/69, 2-3=-202/149

BOT CHORD 1-3=-154/92

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 9-2-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 1 and 84 lb uplift at joint 3.

LOAD CASE(S) Standard



August 4,2025

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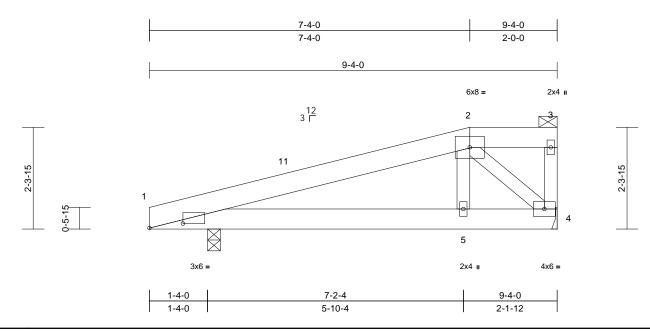


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Jane SC 1646	
2504375-28480	M3	Half Hip	2	1	Job Reference (optional)	175344354

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:54 ID:e6tkklxlqwLmjpVwTO9ljYysGi6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:26.4

Plate Offsets (X, Y): [1:0-9-3,0-1-4]

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	0.16	Vert(LL)	-0.01	6	>999	240	MT20	244/190
Snow (Pf/Pg)	12.7/10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	5-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 52 lb	FT = 20%

LUMBER

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

BRACING

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

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

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

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

Max Horiz 1=68 (LC 12)

Max Uplift 1=-92 (LC 12), 4=-79 (LC 12)

Max Grav 1=430 (LC 2), 4=305 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-356/151, 2-3=-4/1, 3-4=-44/20 **BOT CHORD** 1-5=-181/304, 4-5=-181/295

WEBS 2-5=-2/195, 2-4=-413/255

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 7-4-0, Exterior(2E) 7-4-0 to 9-2-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=12.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.

- 5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 1 and 79 lb uplift at joint 4.
- 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



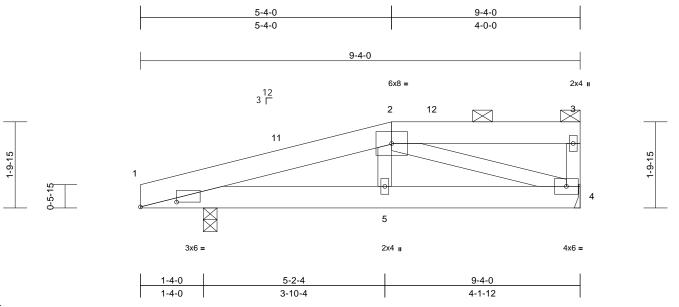
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Job	Truss	Truss Type	Qty	Ply	Jane SC 1646	
2504375-28480	M4	Half Hip	2	1	Job Reference (optional)	175344355

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:54 ID:_4gdnS?RfSz3qaNuGxlwPbysGi1-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:24.5

Plate Offsets (X, Y): [1:0-9-3,0-1-4]

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	0.10	Vert(LL)	0.01	5	>999	240	MT20	244/190
Snow (Pf/Pg)	12.7/10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS							1	
BCDL	10.0										Weight: 53 lb	FT = 20%

LUMBER

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

BRACING

BOT CHORD

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

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

Rigid ceiling directly applied or 10-0-0 oc

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

Max Horiz 1=49 (LC 12)

Max Uplift 1=-96 (LC 12), 4=-76 (LC 12)

Max Grav 1=430 (LC 2), 4=305 (LC 2) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-466/217, 2-3=-43/19, 3-4=-121/81

BOT CHORD 1-5=-233/422, 4-5=-237/418

WEBS 2-5=0/132, 2-4=-398/231

NOTES

FORCES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-4-0, Exterior(2E) 5-4-0 to 9-2-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=12.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.

- 5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint 1 and 76 lb uplift at joint 4.
- 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



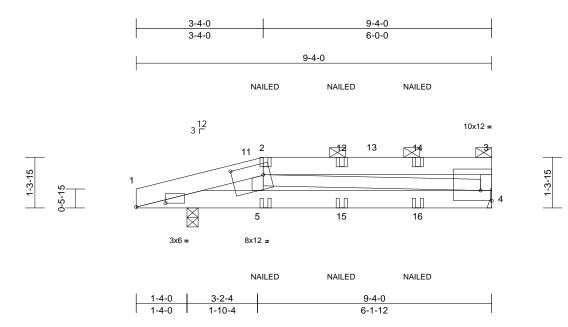
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Job	Truss	Truss Type	Qty	Ply	Jane SC 1646	
2504375-28480	M5	Half Hip	2	1	Job Reference (optional)	175344356

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:54 ID:eNP9IZ8zq8UMGQIBzSzkv7ysGhr-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:30.2

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

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	0.21	Vert(LL)	-0.01	4-5	>999	240	MT20	244/190
Snow (Pf/Pg)	12.7/10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.03	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 54 lb	FT = 20%

LUMBER

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

BRACING

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

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

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

bracing

REACTIONS (size) 1=0-3-8, 4= Mechanical Max Horiz 1=31 (LC 12)

Max Uplift 1=-99 (LC 12), 4=-73 (LC 12)

Max Grav 1=427 (LC 2), 4=302 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-507/235, 2-3=-173/92, 3-4=-183/123

BOT CHORD 1-5=-242/478, 4-5=-262/485

WEBS 2-5=-39/132, 2-4=-315/172

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 3-4-0, Exterior(2R) 3-4-0 to 7-6-15, Interior (1) 7-6-15 to 9-2-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=12.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.

- 5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 1 and 73 lb uplift at joint 4.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-35, 2-3=-45, 4-6=-20

Concentrated Loads (lb) Vert: 5=0 (F), 15=0 (F), 16=0 (F)



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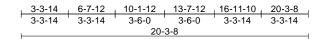
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

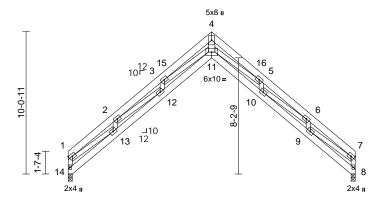
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication,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

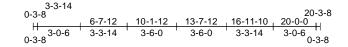


Job	Truss	Truss Type	Qty	Ply	Jane SC 1646	
2504375-28480	S1	Roof Special	18	1	Job Reference (optional)	175344357

Run: 8.83 S Jul 24 2025 Print: 8.830 S Jul 24 2025 MiTek Industries, Inc. Fri Aug 01 10:31:54 ID:v3AqmNNunCkJsvo?wKzQQyysGrs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1







Scale = 1:81.5

Plate Offsets (X, Y): [5:0-0-0,0-0-0], [6:0-0-0,0-0-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.28	11	>872	240	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.55	11	>437	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.97	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0			1							Weight: 171 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.2 *Except* 11-4:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-10 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 8-11-11 oc

bracing.

REACTIONS (size) 8=0-3-8, 14=0-3-8

Max Horiz 14=-196 (LC 10)

Max Uplift 8=-111 (LC 15), 14=-111 (LC 14) Max Grav 8=800 (LC 2), 14=800 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-14=-840/236, 1-2=-2403/583, TOP CHORD

2-3=-3658/707, 3-4=-3858/362,

4-5=-3897/391, 5-6=-3525/423,

6-7=-2317/313, 7-8=-805/135

13-14=-261/334, 12-13=-625/2297

11-12=-674/3616, 10-11=-297/3338,

9-10=-232/2037, 8-9=-19/115

WEBS 4-11=-395/4684, 3-11=-100/443,

2-13=-471/138, 1-13=-408/1861, 2-12=-51/1238, 3-12=-218/34,

5-11=-299/671, 5-10=-221/37,

6-10=-68/1258, 6-9=-450/78, 7-9=-209/1795

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 10-1-12, Exterior(2R) 10-1-12 to 13-1-12, Interior (1) 13-1-12 to 20-1-12 zone; cantilever 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- All plates are 4x6 (=) MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- N/A
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Bearing at joint(s) 14, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 14 and 111 lb uplift at joint 8.

LOAD CASE(S) Standard



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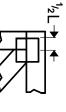
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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)

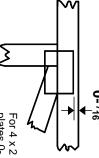


Symbols

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

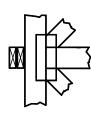
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

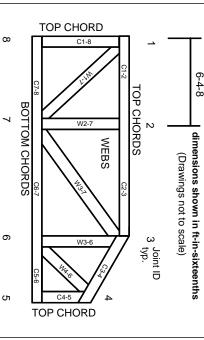
Industry Standards:

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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MiTek



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

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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