

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

RE: 4703108 - JSJ, Smith Prime Plan (12-19-24)

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Project Customer: JSJ Builders Project Name:

Lot/Block: 104 Subdivision: DUCKS LANDING

Address:

City: Lillington State: NC

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

Name: License #:

Address:

City, County: State:

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

Design Code: IRC2015/TPl2014 Design Program: MiTek 20/20 8.8

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

Wind Speed: 130 mph

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

This package includes 16 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Job ID#	Truss Name	Date
1	174964167	4703108	A01	7/17/25
2	174964168 174964169	4703108 4703108	A02 A03	7/17/25 7/17/25
4	174964170	4703108	A04	7/17/25
5	174964171	4703108	4.00	7/17/25
6 7	174964172 174964173	4703108 4703108	A06 A07	7/17/25
8	174964173	4703108	A07 A08	7/17/25 7/17/25
ğ	174964175	4703108	A09	7/17/25
10	174964176	4703108	B01	7/17/25
11 12	174964177 174964178	4703108 4703108	B02	7/17/25
13	174964176	4703108	B03	7/17/25 7/17/25
14	174964180	4703108	B05	7/17/25
40	174964181	4703108	PB01	7/17/25
16	174964182	4703108	PB02	7/17/25

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Sumter,SC.

Truss Design Engineer's Name: Gilbert, Eric

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

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



July 17,2025

Gilbert, Eric



RE: \$JOBNAME - \$JOBDESC

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

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

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



RE: \$JOBNAME - \$JOBDESC

Trenco 818 Soundside Rd Edenton, NC 27932

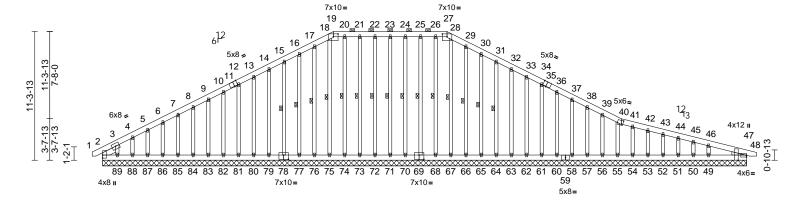
Site Information:

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

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

Job	Truss	Truss Type	Qty	Ply	JSJ, Smith Prime Plan (12-19-24)	
4703108	A01	Piggyback Base Supported Gable	1	1	Job Reference (optional)	174964167
Builders FirstSource (Su	mter, SC), Sumter, SC - 29153,	Run: 8.83 S Jun 11	Page: 1			
ID:rXx7qFxcR9Qpgha4WwwB0Uylhb0-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f						





56-7-8 Scale = 1:101.3

[2:Edge,0-0-0], [11:0-3-10,Edge], [19:0-5-0,0-3-0], [27:0-5-0,0-3-0], [35:0-3-10,Edge], [40:0-1-9,0-3-12], [47:Edge,0-1-13], [47:0-5-2,Edge], [69:0-5-0,0-4-8], Plate Offsets (X, Y): [78:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	47	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 651 lb	FT = 20%

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

SLIDER Left 2x6 SP No.2 -- 1-4-7

BRACING

LUMBER

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

2-0-0 oc purlins (6-0-0 max.): 19-27.

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

bracing.

WEBS 1 Row at midpt 23-71, 24-70, 25-69, 26-68, 28-67, 29-66,

30-65, 31-64, 22-72, 21-73, 20-74, 18-75,

17-76, 16-77, 15-78

REACTIONS (size)

2=56-7-8, 47=56-7-8, 49=56-7-8, 50=56-7-8, 51=56-7-8, 52=56-7-8, 53=56-7-8, 54=56-7-8, 55=56-7-8, 56=56-7-8, 57=56-7-8, 58=56-7-8, 60=56-7-8, 61=56-7-8, 62=56-7-8, 63=56-7-8, 64=56-7-8, 65=56-7-8, 66=56-7-8, 67=56-7-8, 68=56-7-8, 69=56-7-8, 70=56-7-8, 71=56-7-8, 72=56-7-8, 73=56-7-8, 74=56-7-8,

75=56-7-8, 76=56-7-8, 77=56-7-8, 78=56-7-8, 79=56-7-8, 80=56-7-8, 81=56-7-8, 82=56-7-8, 83=56-7-8, 84=56-7-8. 85=56-7-8. 86=56-7-8.

87=56-7-8, 88=56-7-8, 89=56-7-8

Max Horiz 2=-240 (LC 13)

Continued on page 2

Max Uplift 2=-74 (LC 17), 47=-48 (LC 9), 49=-154 (LC 13), 50=-9 (LC 9), 51=-50 (LC 13), 52=-41 (LC 9), 53=-46 (LC 13), 54=-32 (LC 9), 55=-50 (LC 13), 56=-57 (LC 13), 57=-57 (LC 13), 58=-55 (LC 13), 60=-55 (LC 13), 61=-55 (LC 13), 62=-55 (LC 13), 63=-55 (LC 13), 64=-58 (LC 13), 65=-62 (LC 13), 66=-35 (LC 13), 69=-36 (LC 9), 70=-42 (LC 9), 71=-39 (LC 8), 72=-41 (LC 8), 73=-36 (LC 8), 74=-2 (LC 9), 76=-41 (LC 12), 77=-60 (LC 12), 78=-57 (LC 12), 79=-56 (LC 12), 80=-55 (LC 12), 81=-55 (LC 12), 82=-55 (LC 12), 83=-55 (LC 12), 84=-55 (LC 12), 85=-55 (LC 12), 86=-54 (LC 12), 87=-56 (LC 12), 88=-53 (LC 12), 89=-217 (LC 12)

Max Grav 2=256 (LC 12), 47=157 (LC 1), 49=256 (LC 24), 50=44 (LC 1), 51=118 (LC 24), 52=105 (LC 1), 53=107 (LC 24), 54=97 (LC 1), 55=104 (LC 1), 56=120 (LC 1) 57=106 (LC 24), 58=106 (LC 24), 60=107 (LC 1), 61=107 (LC 1), 62=107 (LC 24), 63=107 (LC 1), 64=107 (LC 1), 65=107 (LC 1), 66=106 (LC 24), 67=106 (LC 22) 68=107 (LC 22), 69=108 (LC 23), 70=106 (LC 23), 71=107 (LC 24), 72=108 (LC 24), 73=108 (LC 24), 74=109 (LC 22), 75=125 (LC 22), 76=106 (LC 23), 77=108 (LC 1), 78=107 (LC 1), 79=106 (LC 23), 80=107 (LC 23), 81=107 (LC 1), 82=107 (LC 1), 83=107 (LC 23), 84=107 (LC 1), 85=107 (LC 23), 86=106 (LC 1), 87=108 (LC 1), 88=103 (LC 23), 89=126 (LC 19)



July 17,2025



Job Truss Truss Type Qtv Ply JSJ. Smith Prime Plan (12-19-24) 174964167 4703108 A01 Piggyback Base Supported Gable Job Reference (optional)

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

Run: 8.83 S Jun 11 2025 Print: 8.830 S Jun 11 2025 MiTek Industries, Inc. Wed Jul 16 15:57:20 ID:rXx7qFxcR9Qpgha4WwwB0Uylhb0-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/20, 2-3=-141/54, 3-4=-276/117, 4-5=-232/127, 5-6=-195/138, 6-7=-160/149, 7-8=-132/170, 8-9=-104/192, 9-10=-77/214, 10-12=-70/236, 12-13=-85/258, 13-14=-100/280, 14-15=-115/303, 15-16=-131/348, 16-17=-147/394, 17-18=-157/426, 18-19=-150/400, 19-20=-148/414. 20-21=-148/414. 21-22=-148/414, 22-23=-148/414, 23-24=-148/414, 24-25=-148/414, 25-26=-149/414, 26-27=-149/414, 27-28=-150/401, 28-29=-157/427, 29-30=-147/394, 30-31=-131/349, 31-32=-116/304, 32-33=-101/261, 33-34=-86/219, 34-36=-71/176, 36-37=-56/133, 37-38=-41/108, 38-39=-33/96, 39-40=-52/85, 40-41=-63/70, 41-42=-76/60, 42-43=-94/47, 43-44=-113/34, 44-45=-131/33, 45-46=-144/34,

BOT CHORD

46-47=-178/57, 47-48=0/8 2-89=-63/208 88-89=-63/208 87-88=-63/208, 86-87=-63/208, 85-86=-63/208, 84-85=-63/208, 83-84=-63/208, 82-83=-63/208, 81-82=-63/208, 80-81=-63/208, 79-80=-63/208, 77-79=-63/208, 76-77=-62/208. 75-76=-62/208. 74-75=-62/208, 73-74=-62/208, 72-73=-62/208, 71-72=-62/208, 70-71=-62/208, 68-70=-62/208, 67-68=-62/207, 66-67=-62/207 65-66=-62/207, 64-65=-62/207, 63-64=-62/207, 62-63=-62/207 61-62=-62/207, 60-61=-62/207, 58-60=-62/207, 57-58=-62/207, 56-57=-62/207, 55-56=-62/207,

54-55=-56/201, 53-54=-56/201, 52-53=-56/201, 51-52=-56/201, 50-51=-56/201, 49-50=-56/201,

47-49=-56/201

WEBS

26-68=-78/15, 28-67=-80/0, 29-66=-80/56. 30-65=-80/87, 31-64=-80/84, 32-63=-80/80, 33-62=-80/80, 34-61=-80/80, 36-60=-80/80, 37-58=-79/80, 38-57=-79/81, 39-56=-94/86, 40-55=-78/79, 41-54=-71/48, 42-53=-80/68, 43-52=-81/67, 44-51=-81/67, 45-50=-55/44, 46-49=-155/132, 22-72=-81/61 21-73=-81/52, 20-74=-82/18, 18-75=-98/0, 17-76=-80/57, 16-77=-80/87, 15-78=-80/83, 14-79=-80/80, 13-80=-80/80, 12-81=-80/80, 10-82=-80/80, 9-83=-80/80, 8-84=-80/80, 7-85=-80/80, 6-86=-80/80, 5-87=-80/78, 4-88=-80/87, 3-89=-77/174

23-71=-80/59, 24-70=-81/60, 25-69=-81/52,

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20 Opsf 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 74 lb uplift at joint 2, 48 lb uplift at joint 47, 39 lb uplift at joint 71, 42 lb uplift at joint 70, 36 lb uplift at joint 69, 35 lb uplift at joint 66, 62 lb uplift at joint 65, 58 lb uplift at joint 64, 55 lb uplift at joint 63, 55 lb uplift at joint 62, 55 lb uplift at joint 61, 55 lb uplift at joint 60, 55 lb uplift at joint 58, 57 lb uplift at joint 57, 57 lb uplift at joint 56, 50 lb uplift at joint 55, 32 Ib uplift at joint 54, 46 lb uplift at joint 53, 41 lb uplift at joint 52, 50 lb uplift at joint 51, 9 lb uplift at joint 50, 154 Ib uplift at joint 49, 41 lb uplift at joint 72, 36 lb uplift at joint 73, 2 lb uplift at joint 74, 41 lb uplift at joint 76, 60 lb uplift at joint 77, 57 lb uplift at joint 78, 56 lb uplift at joint 79, 55 lb uplift at joint 80, 55 lb uplift at joint 81, 55 lb uplift at joint 82, 55 lb uplift at joint 83, 55 lb uplift at joint 84, 55 lb uplift at joint 85, 54 lb uplift at joint 86, 56 lb uplift at joint 87, 53 lb uplift at joint 88, 217 lb uplift at joint 89, 74 lb uplift at joint 2 and 48 lb uplift at joint 47.
- 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



July 17,2025

Page: 2

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

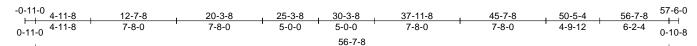
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	JSJ, Smith Prime Plan (12-19-24)	
4703108	A02	Piggyback Base	6	1	Job Reference (optional)	174964168

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Page: 1



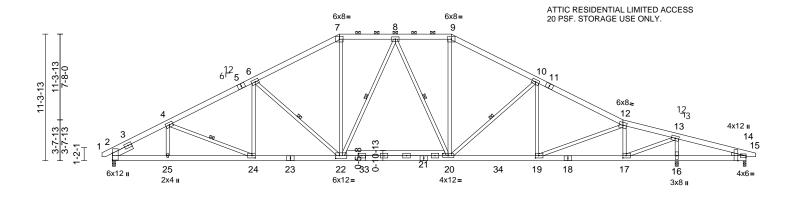


Plate Offsets (X, Y): [2:0-7-3,0-0-4], [14:Edge,0-1-13], [14:0-5-2,Edge], [17:0-3-8,0-2-8], [19:0-3-8,0-2-8], [20:0-5-12,0-2-0], [22:0-4-0,0-3-0], [24:0-3-8,0-2-8]

20-5-4

4-6-4

15-11-0

3-3-8

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	0.78	Vert(LL)	-0.18	20-22	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.35	20-22	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.09	16	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.15	20-22	>999	240	Weight: 464 lb	FT = 20%

27-10-0

7-4-12

30-1-12

2-3-12

37-11-8

7-9-12

40-8-8

2-9-0

45-9-4

5-0-12

50-5-4

4-8-0

56-7-8

6-2-4

LUMBER

Scale = 1:102.9

TOP CHORD 2x6 SP No.2

2x6 SP No.2 *Except* 2-23,18-14:2x6 SP BOT CHORD

2400F 2.0E or 2x6 SP DSS

4-11-8

4-11-8

12-7-8

7-8-0

WFBS 2x4 SP No.3 *Except* 13-17:2x4 SP No.2

WEDGE Right: 2x4 SP No.3

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

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-11-6 oc purlins, except

2-0-0 oc purlins (4-11-2 max.): 7-9. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WFBS 1 Row at midpt 4-24, 6-22, 10-20, 8-22,

8-20

2=0-3-8, 14=0-3-0, 16=0-3-8 REACTIONS (size)

Max Horiz 2=-240 (LC 13)

Max Uplift 2=-496 (LC 12), 14=-321 (LC 20),

16=-676 (LC 13)

Max Grav 2=2006 (LC 1), 14=53 (LC 12),

16=2789 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-4=-3118/1308, 4-6=-3070/1349,

> 6-7=-2540/1230, 7-8=-2180/1182, 8-9=-2130/1161, 9-10=-2482/1208 10-12=-2808/1248, 12-13=-1983/867

13-14=-351/1189, 14-15=0/8

BOT CHORD 2-25=-1038/2680, 24-25=-1038/2680,

22-24=-926/2694, 20-22=-606/2210, 19-20=-839/2457, 17-19=-724/1934

16-17=-1103/385, 14-16=-1103/385

WEBS 4-25=-131/178, 4-24=-84/192, 6-24=0/338,

6-22=-728/477, 7-22=-279/793,

9-20=-270/763, 10-20=-510/388, 10-19=-62/151, 12-19=-124/624,

12-17=-1249/614, 8-22=-294/213,

8-20=-395/208, 13-16=-2452/1057, 13-17=-1169/3229

NOTES

DOL=1.60

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right
- exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Provide adequate drainage to prevent water ponding.
- All plates are 5x8 (=) MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 496 lb uplift at joint 2, 321 lb uplift at joint 14 and 676 lb uplift at joint 16.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



July 17,2025

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

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



Job	Truss	Truss Type	Qty	Ply	JSJ, Smith Prime Plan (12-19-24)	
4703108	A03	Piggyback Base	2	1	Job Reference (optional)	174964169

56-7-8

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

-0-11-0 <u>4-11-8</u>

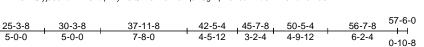
0-11-0

4-11-8

12-7-8

7-8-0

Run: 8.83 S. Jun 11 2025 Print: 8.830 S. Jun 11 2025 MiTek Industries. Inc. Wed Jul 16 15:57:22 ID:GYiQkyjJCsDul?NwSxbqZmyIvOQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Page: 1

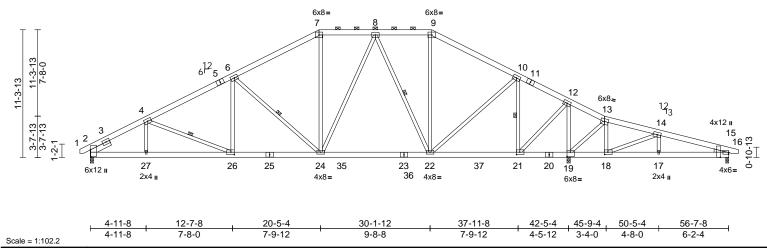


Plate Offsets (X, Y): [2:0-7-3,0-0-8], [15:Edge,0-1-13], [15:0-5-2,Edge], [18:0-3-8,0-2-8], [19:0-3-8,0-4-8], [21:0-3-8,0-2-8], [26:0-3-8,0-2-8]

20-3-8

7-8-0

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	0.58	Vert(LL)	-0.15	22-24	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.27	22-24	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.06	19	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.12	26-27	>999	240	Weight: 452 lb	FT = 20%

LUMBER TOP CHORD

2x6 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.3 WEBS WEDGE Right: 2x4 SP No.3

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-6-10 oc purlins, except

2-0-0 oc purlins (5-9-12 max.): 7-9. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt 4-26, 6-24, 10-21, 8-22

REACTIONS (size)

2=0-3-8, 15=0-3-0, 19=0-3-8 Max Horiz 2=-240 (LC 13)

Max Uplift 2=-448 (LC 12), 15=-315 (LC 9),

19=-595 (LC 13) Max Grav 2=1670 (LC 1), 15=418 (LC 24),

19=2556 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20 2-4=-2554/1034 4-6=-2395/1024

> 6-7=-1862/888, 7-8=-1581/874, 8-9=-1238/709, 9-10=-1472/698

10-12=-771/287, 12-13=-420/725, 13-14=-78/343, 14-15=-547/614, 15-16=0/8

BOT CHORD 2-27=-797/2184, 26-27=-797/2184, 24-26=-634/2097, 22-24=-224/1462

21-22=-5/708, 19-21=-611/583, 18-19=-332/176, 17-18=-533/509,

15-17=-533/509

WEBS 4-27=-55/146, 4-26=-128/196, 6-26=0/363,

6-24=-754/497, 7-24=-127/499, 9-22=-47/366, 13-19=-478/574, 13-18=-413/344, 14-18=-749/746, 14-17=-189/226, 10-22=-212/775, 10-21=-1215/653, 12-21=-762/1802, 12-19=-2104/996, 8-24=-162/372,

8-22=-662/302

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II: Exp C: Enclosed: MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 5x8 (=) MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 448 lb uplift at joint 2, 595 lb uplift at joint 19 and 315 lb uplift at joint 15.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or hottom chord

LOAD CASE(S) Standard



July 17,2025

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)



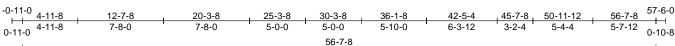
Job Truss Truss Type Qtv Ply JSJ, Smith Prime Plan (12-19-24) 174964170 4703108 A04 Piggyback Base Girder 2 Job Reference (optional)

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

Run: 8.83 S Jun 11 2025 Print: 8.830 S Jun 11 2025 MiTek Industries. Inc. Wed Jul 16 15:57:22 ID:GYiQkyjJCsDul?NwSxbqZmyIvOQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Page: 1



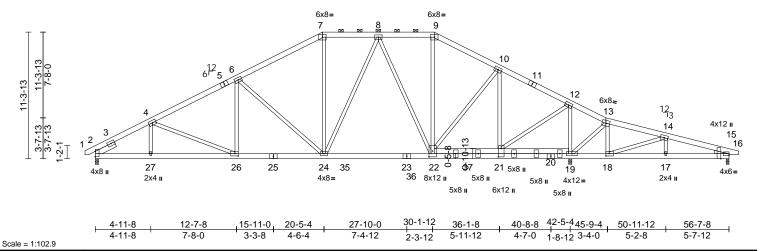


Plate Offsets (X, Y): [2:Edge,0-0-0], [15:Edge,0-1-13], [15:0-5-2,Edge], [18:0-3-8,0-2-8], [21:0-9-0,0-3-0], [22:0-6-4,0-4-0], [26:0-3-8,0-2-8]

		ı		1	_							
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.07	22-24	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.14	26-27	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.05	19	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.06	26-27	>999	240	Weight: 963 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

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

bracing.

REACTIONS (size) 2=0-3-8, 15=0-3-0, 19=0-3-8

Max Horiz 2=-240 (LC 9)

Max Uplift 2=-263 (LC 8), 15=-352 (LC 5) 2=2028 (LC 1), 15=269 (LC 20), Max Grav

19=5104 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-4=-3159/354, 4-6=-3118/265, 6-7=-2576/135, 7-8=-2204/189, 8-9=-2195/0,

9-10=-2540/0, 10-12=-2864/0, 12-13=-100/1171, 13-14=0/873 14-15=-163/591, 15-16=0/8

BOT CHORD 2-27=-459/2703, 26-27=-459/2703, 24-26=-216/2740, 22-24=0/2268,

21-22=0/2483, 19-21=-1020/249 18-19=-824/0, 17-18=-515/144,

15-17=-515/144

4-27=-111/98, 4-26=-44/263, 6-26=-10/350,

6-24=-736/453, 7-24=0/788, 9-22=0/828, 13-19=-280/416, 13-18=-271/307,

14-18=-897/485, 14-17=-45/241, 8-24=-390/68, 8-22=-226/487, 10-22=-696/0,

10-21=-69/817, 12-21=0/4286,

12-19=-4558/0

2-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 0-7-0 oc.

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

unless otherwise indicated.

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 5x8 (=) MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 263 lb uplift at joint 2 and 352 lb uplift at joint 15.
- 10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2750 lb down at 36-1-8 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-7=-60, 7-9=-60, 9-13=-60, 13-16=-60, 28-32=-20 Concentrated Loads (lb)

Vert: 21=-2750 (B)



July 17,2025

NOTES

WEBS

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July 17,2025

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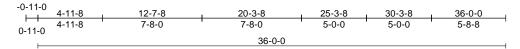
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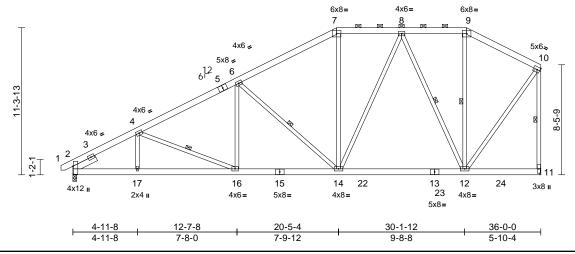


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	JSJ, Smith Prime Plan (12-19-24)	
4703108	A05	Piggyback Base	3	1	Job Reference (optional)	174964171

Run: 8.83 S. Jun 11 2025 Print: 8.830 S. Jun 11 2025 MiTek Industries. Inc. Wed Jul 16 15:57:23 ID:y?R42VnRJnRMSUUlao5NeQylvJB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:88.6

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

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	0.49	Vert(LL)	-0.12	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.21	12-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.10	16-17	>999	240	Weight: 314 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* 11-10:2x4 SP No.2 WEBS

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-0-10 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 7-9. Rigid ceiling directly applied or 6-11-9 oc

BOT CHORD bracing.

WFBS 1 Row at midpt 4-16, 6-14, 9-12, 10-11,

8-12

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

Max Horiz 2=464 (LC 12)

Max Uplift 2=-390 (LC 12), 11=-293 (LC 12) Max Grav 2=1480 (LC 1), 11=1503 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-4=-2229/852, 4-6=-2013/815,

6-7=-1448/671. 7-8=-1208/679. 8-9=-682/418, 9-10=-808/388,

10-11=-1426/642

BOT CHORD 2-17=-1088/1904, 16-17=-1088/1904,

14-16=-893/1746, 12-14=-430/1001,

11-12=-3/5

WEBS 4-17=-28/146, 4-16=-184/214, 6-16=0/377,

6-14=-766/506, 7-14=-33/335, 9-12=-55/145,

10-12=-439/1171, 8-14=-223/548,

8-12=-843/426

NOTES

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 390 lb uplift at joint 2 and 293 lb uplift at joint 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



July 17,2025



Job	Truss	Truss Type	Qty	Ply	JSJ, Smith Prime Plan (12-19-24)	
4703108	A06	Piggyback Base	1	1	Job Reference (optional)	I74964172

36-3-8

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

-0-11-0

 \vdash

0-11-0

4-11-8

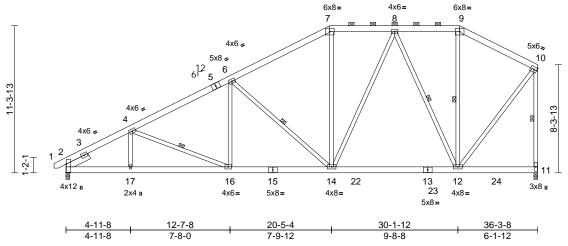
4-11-8

12-7-8

7-8-0

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Scale = 1:88.6 Plate Offsets (X, Y): [2:0-7-7,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.12	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.21	12-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.10	16-17	>999	240	Weight: 315 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* 11-10:2x4 SP No.2 WEBS

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

BRACING

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

2-0-0 oc purlins (6-0-0 max.): 7-9.

Rigid ceiling directly applied or 6-11-8 oc

BOT CHORD

bracing.

WFBS 1 Row at midpt 4-16, 6-14, 9-12, 10-11,

8-12

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

Max Horiz 2=460 (LC 12)

Max Uplift 2=-393 (LC 12), 11=-292 (LC 12) Max Grav 2=1492 (LC 1), 11=1515 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-4=-2249/864, 4-6=-2036/829,

> 6-7=-1472/685, 7-8=-1231/692, 8-9=-716/438, 9-10=-848/406,

10-11=-1431/647

BOT CHORD 2-17=-1090/1921, 16-17=-1090/1921,

14-16=-897/1768, 12-14=-437/1028,

11-12=-4/5

4-17=-30/144, 4-16=-181/213, 6-16=0/376, **WEBS**

6-14=-765/505, 7-14=-39/343, 9-12=-52/156,

10-12=-438/1175, 8-14=-220/538,

8-12=-831/416

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 393 lb uplift at joint 2 and 292 lb uplift at joint 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or

LOAD CASE(S) Standard



July 17,2025

Page: 1

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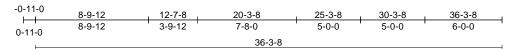
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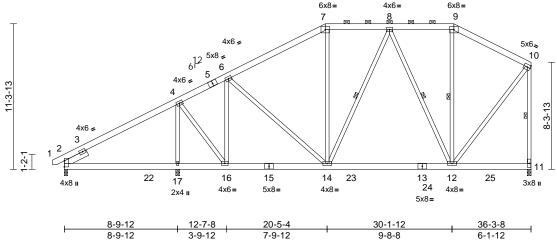


Job	Truss	Truss Type Qty Ply JSJ, Smith Prime Plan (12-19-24)		JSJ, Smith Prime Plan (12-19-24)		
4703108	A07	Piggyback Base	2	1	Job Reference (optional)	174964173

Run: 8.83 S. Jun 11 2025 Print: 8.830 S. Jun 11 2025 MiTek Industries. Inc. Wed Jul 16 15:57:23 ID:71VW405hkHFS6kdLkKa0qOylvK4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:89.6 Plate Offsets (X, Y): [2:Edge,0-0-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.10	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.16	12-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.67	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.09	17-20	>999	240	Weight: 315 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* 11-10:2x4 SP No.2 WEBS

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

BRACING TOP CHORD

BOT 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.): 7-9. Rigid ceiling directly applied or 8-1-14 oc

bracing.

WFBS 1 Row at midpt 9-12, 10-11, 8-14, 8-12

REACTIONS (size) 2=0-3-0, 11=0-3-8, 17=0-3-8

Max Horiz 2=460 (LC 12)

Max Uplift 2=-208 (LC 9), 11=-229 (LC 12),

17=-258 (LC 12)

Max Grav 2=598 (LC 23), 11=1223 (LC 2), 17=1254 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/20, 2-4=-576/491, 4-6=-907/595, TOP CHORD

6-7=-998/559. 7-8=-813/587. 8-9=-554/396.

9-10=-668/360, 10-11=-1138/572 2-17=-711/438, 16-17=-711/438,

BOT CHORD 14-16=-619/758, 12-14=-363/738, 11-12=-4/5

4-17=-993/271, 4-16=0/603, 6-16=-381/50, WEBS

6-14=-42/271, 7-14=0/167, 9-12=-105/119,

10-12=-370/909, 8-14=-156/246,

8-12=-526/335

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint 2, 258 lb uplift at joint 17 and 229 lb uplift at joint 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



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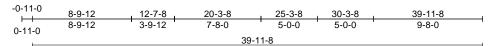
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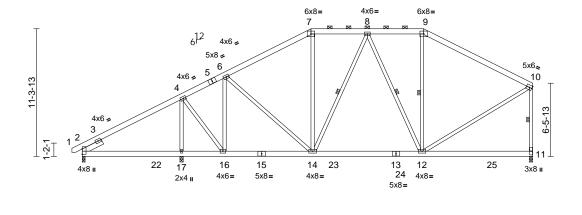


Job	Truss	Truss Type	Qty Ply		JSJ, Smith Prime Plan (12-19-24)	
4703108	A08	Piggyback Base	4	1	Job Reference (optional)	174964174

Run: 8.83 S. Jun 11 2025 Print: 8.830 S Jun 11 2025 MiTek Industries, Inc. Wed Jul 16 15:57:24 ID:uudG?6cYQ5AjG6UHihynzsylvR9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:102.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.10	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.15	12-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.08	17-20	>999	240	Weight: 333 lb	FT = 20%

30-1-12

9-8-8

39-11-8

9-9-12

20-5-4

7-9-12

LUMBER

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

2x4 SP No.3 *Except* 11-10:2x4 SP No.2 WEBS

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

BRACING

Structural wood sheathing directly applied or TOP CHORD 4-8-11 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 7-9.

BOT CHORD Rigid ceiling directly applied or 8-7-10 oc

bracing.

WFBS 1 Row at midpt 9-12, 10-11, 8-14, 8-12

REACTIONS (size) 2=0-3-0, 11=0-3-8, 17=0-3-8

Max Horiz 2=406 (LC 12)

Max Uplift 2=-215 (LC 9), 11=-270 (LC 13),

17=-283 (LC 12)

Max Grav 2=597 (LC 23), 11=1342 (LC 2),

8-9-12

8-9-12

12-7-8

3-9-12

17=1405 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/20, 2-4=-575/528, 4-6=-1002/678, TOP CHORD

> 6-7=-1176/687, 7-8=-973/702, 8-9=-866/601, 9-10=-1048/539, 10-11=-1212/628

BOT CHORD 2-17=-637/437, 16-17=-637/437

14-16=-588/842, 12-14=-406/965

11-12=-18/27

WEBS 4-17=-1144/323, 4-16=0/738, 6-16=-489/106,

6-14=-34/314, 7-14=-6/222, 9-12=-112/197,

8-14=-155/146, 8-12=-371/230,

10-12=-365/993

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 215 lb uplift at joint 2, 283 lb uplift at joint 17 and 270 lb uplift at joint 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



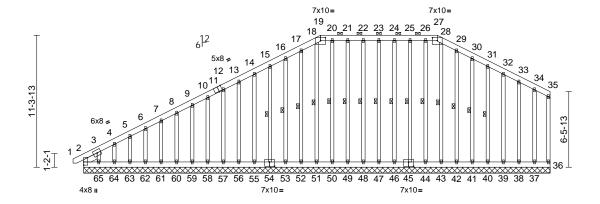
July 17,2025



Job	Truss	Truss Type	Qty	Ply	JSJ, Smith Prime Plan (12-19-24)	
4703108	A09	Piggyback Base Supported Gable	1	1	Job Reference (optional)	I74964175

Run: 8.83 S Jun 11 2025 Print: 8.830 S Jun 11 2025 MiTek Industries. Inc. Wed Jul 16 15:57:24 ID:e2DrlxJxV4_8Zf_YRNwwQcylhXz-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





39-11-8 Scale = 1:98.7

Plate Offsets (X, Y):	[2:Edge,0-0-0], [11:0-3-10,Edge],	, [19:0-5-0,0-3-0], [27:0-5-0,0-3	-0], [45:0-5-0,0-4-8], [54:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 529 lb	FT = 20%

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 1-4-7

BRACING TOP CHORD

WEBS

LUMBER

Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 19-27

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

bracing, Except: 10-0-0 oc bracing:

44-45,43-44,42-43,41-42,40-41,39-40,38-39,

37-38.36-37.

1 Row at midpt 23-47, 24-46, 25-45, 26-44, 28-43, 29-42,

30-41, 31-40, 22-48, 21-49, 20-50, 18-51,

17-52, 16-53, 15-54 2=39-11-8. 36=39-11-8.

REACTIONS (size)

37=39-11-8, 38=39-11-8, 39=39-11-8, 40=39-11-8, 41=39-11-8, 42=39-11-8, 43=39-11-8, 44=39-11-8, 45=39-11-8, 46=39-11-8, 47=39-11-8, 48=39-11-8, 49=39-11-8, 50=39-11-8, 51=39-11-8, 52=39-11-8, 53=39-11-8, 54=39-11-8,

55=39-11-8, 56=39-11-8,

57=39-11-8, 58=39-11-8,

59=39-11-8, 60=39-11-8, 61=39-11-8, 62=39-11-8, 63=39-11-8, 64=39-11-8, 65=39-11-8

Max Horiz 2=406 (LC 12)

Max Uplift 2=-45 (LC 10), 36=-20 (LC 13), 37=-53 (LC 13), 38=-57 (LC 13), 39=-56 (LC 13), 40=-57 (LC 13), 41=-60 (LC 13), 42=-40 (LC 13), 44=-18 (LC 9), 45=-37 (LC 9), 46=-41 (LC 9), 47=-39 (LC 8), 48=-41 (LC 8), 49=-37 (LC 9), 50=-22 (LC 9), 51=-6 (LC 9), 52=-47 (LC 12), 53=-59 (LC 12), 54=-56 (LC 12), 55=-56 (LC 12), 56=-55 (LC 12), 57=-55 (LC 12), 58=-55 (LC 12), 59=-55 (LC 12), 60=-55 (LC 12), 61=-55 (LC 12), 62=-54 (LC 12), 63=-55 (LC 12), 64=-54 (LC 12), 65=-268 (LC 12) Max Grav 2=356 (LC 12), 36=43 (LC 1),

37=102 (LC 24), 38=109 (LC 1), 39=107 (LC 24), 40=107 (LC 1) 41=107 (LC 24), 42=107 (LC 24), 43=106 (LC 24), 44=109 (LC 1), 45=108 (LC 23), 46=106 (LC 23), 47=107 (LC 24), 48=108 (LC 24), 49=108 (LC 24), 50=107 (LC 23),

51=115 (LC 22), 52=107 (LC 23), 53=107 (LC 1), 54=107 (LC 1), 55=106 (LC 23), 56=107 (LC 23), 57=107 (LC 1), 58=107 (LC 1), 59=107 (LC 1), 60=107 (LC 1), 61=107 (LC 23), 62=106 (LC 1), 63=108 (LC 1), 64=103 (LC 23),

65=122 (LC 19) (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=0/20, 2-3=-190/55, 3-4=-386/107, 4-5=-341/91, 5-6=-304/92, 6-7=-265/92, 7-8=-226/98, 8-9=-187/109, 9-10=-148/119,

10-12=-116/132, 12-13=-88/154, 13-14=-64/176, 14-15=-56/198, 15-16=-71/221, 16-17=-87/244, 17-18=-100/273, 18-19=-99/268,

Page: 1

19-20=-95/275, 20-21=-95/275, 21-22=-95/275, 22-23=-95/275, 23-24=-95/275, 24-25=-95/275, 25-26=-96/275, 26-27=-96/275,

27-28=-100/268, 28-29=-100/274, 29-30=-88/237, 30-31=-72/193, 31-32=-57/149, 32-33=-42/106, 33-34=-26/61, 34-35=-12/22, 35-36=-34/32

ORTH

July 17,2025

Continued on page 2

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

FORCES

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



Job	Truss	Truss Type	Qty	Ply	JSJ, Smith Prime Plan (12-19-24)	
4703108	A09	Piggyback Base Supported Gable	1	1	Job Reference (optional)	I74964175

Run: 8.83 S. Jun 11 2025 Print: 8.830 S. Jun 11 2025 MiTek Industries. Inc. Wed. Jul 16 15:57:24 ID:e2DrlxJxV4_8Zf_YRNwwQcylhXz-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

BOT CHORD 2-65=-1/1 64-65=-1/1 63-64=-1/1 62-63=-1/1, 61-62=-1/1, 60-61=-1/1, 59-60=-1/1, 58-59=-1/1, 57-58=-1/1, 56-57=-1/1 55-56=-1/1 53-55=-1/1 52-53=-1/1, 51-52=-1/1, 50-51=-1/1, 49-50=-1/1, 48-49=-1/1, 47-48=-1/1, 46-47=-1/1, 44-46=-1/1, 43-44=0/1, 42-43=0/1, 41-42=0/1, 40-41=0/1, 39-40=0/1, 38-39=0/1, 37-38=0/1, 36-37=0/1 WEBS 23-47=-80/58, 24-46=-81/58, 25-45=-81/53, 26-44=-80/35, 28-43=-80/4, 29-42=-80/64, 30-41=-80/85, 31-40=-80/82, 32-39=-81/81, 33-38=-83/83, 34-37=-75/75, 22-48=-81/59, 21-49=-82/53, 20-50=-80/38, 18-51=-88/22, 17-52=-80/64, 16-53=-80/85, 15-54=-80/82, 14-55=-80/80, 13-56=-80/80, 12-57=-80/80, 10-58=-80/80, 9-59=-80/80, 8-60=-80/80,

NOTES

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

4-64=-81/92, 3-65=-94/213

7-61=-80/80, 6-62=-80/80, 5-63=-80/77,

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 36, 45 lb uplift at joint 2, 39 lb uplift at joint 47, 41 lb uplift at joint 46, 37 lb uplift at joint 45, 18 lb uplift at joint 44, 40 lb uplift at joint 42, 60 lb uplift at joint 41, 57 lb uplift at joint 40, 56 lb uplift at joint 39, 57 lb uplift at joint 38, 53 Ib uplift at joint 37, 41 lb uplift at joint 48, 37 lb uplift at joint 49, 22 lb uplift at joint 50, 6 lb uplift at joint 51, 47 lb uplift at joint 52, 59 lb uplift at joint 53, 56 lb uplift at joint 54, 56 lb uplift at joint 55, 55 lb uplift at joint 56, 55 lb uplift at joint 57, 55 lb uplift at joint 58, 55 lb uplift at joint 59, 55 lb uplift at joint 60, 55 lb uplift at joint 61, 54 lb uplift at joint 62, 55 lb uplift at joint 63, 54 lb uplift at joint 64, 268 lb uplift at joint 65 and 45 lb uplift at joint 2.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



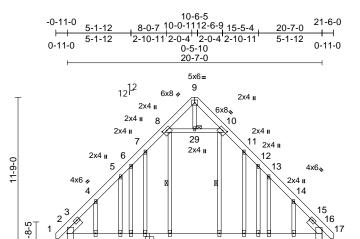
Page: 2



Job	Truss	Truss Type	Qty Ply		JSJ, Smith Prime Plan (12-19-24)	
4703108	B01	Attic Supported Gable	1	1	Job Reference (optional)	174964176

Run: 8.83 S. Jun 11 2025 Print: 8.830 S. Jun 11 2025 MiTek Industries. Inc. Wed Jul 16.15:57:25 ID:VjRfOY2J2qaxlXqAEYU96UylhUQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



5-1-12 15-5-4 20-7-0 5-1-12 10-3-8 5-1-12

21 2019

18

6x12 II

Scale = 1:93.1

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
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	16	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 256 lb	FT = 20%

2726 25

24 6x8=

6x12 | 28

LUMBER	
TOP CHORD	2x6 SP No.2

2x10 SP 2400F 2.0E or 2x10 SP DSS **BOT CHORD** 2x4 SP No.2 *Except* 9-29:2x4 SP No.3 WEBS OTHERS 2x4 SP No 3 Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2

SLIDER

-- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins. **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc

bracing. WEBS 1 Row at midpt

8-23, 10-22 **JOINTS** 1 Brace at Jt(s): 29

REACTIONS (size)

2=20-7-0. 16=20-7-0. 18=20-7-0. 19=20-7-0, 20=20-7-0, 21=20-7-0, 22=20-7-0, 23=20-7-0, 25=20-7-0,

26=20-7-0. 27=20-7-0, 28=20-7-0

Max Horiz 2=-366 (LC 10)

Max Uplift 2=-183 (LC 8), 16=-143 (LC 9), 18=-355 (LC 13), 19=-41 (LC 12), 20=-124 (LC 13), 21=-64 (LC 13),

23=-2 (LC 9), 25=-66 (LC 12), 26=-125 (LC 12), 27=-46 (LC 13),

28=-368 (LC 12)

Max Grav 2=353 (LC 21), 16=322 (LC 20), 18=291 (LC 11), 19=114 (LC 1),

20=129 (LC 21), 21=98 (LC 1), 22=318 (LC 22), 23=333 (LC 20), 25=98 (LC 1), 26=131 (LC 20), 27=114 (LC 1), 28=310 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/34, 2-4=-291/237, 4-5=-224/183, 5-6=-193/228, 6-7=-239/276, 7-8=-287/307,

8-9=-147/100, 9-10=-147/100, 10-11=-287/302, 11-12=-239/249, 12-13=-173/201, 13-14=-196/147,

14-16=-251/195, 16-17=0/34 2-28=-155/248, 27-28=-155/248,

26-27=-155/248, 25-26=-155/249, 23-25=-155/249, 22-23=-153/244, 21-22=-149/245, 20-21=-149/244,

19-20=-149/244, 18-19=-148/244, 16-18=-148/243

WEBS 12-20=-110/102, 6-26=-110/101, 8-29=-209/268, 10-29=-209/268, 9-29=-50/39, 8-23=-181/45, 7-25=-102/83,

5-27=-140/121, 4-28=-229/242, 10-22=-166/21, 11-21=-99/80, 13-19=-140/122, 14-18=-230/238

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 3x6 (||) MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 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 183 lb uplift at joint 2, 143 lb uplift at joint 16, 124 lb uplift at joint 20, 125 lb uplift at joint 26, 2 lb uplift at joint 23, 66 lb uplift at joint 25, 46 lb uplift at joint 27, 368 lb uplift at joint 28, 64 lb uplift at joint 21, 41 lb uplift at joint 19 and 355 lb uplift at ioint 18.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 16.
- 11) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



July 17,2025



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)



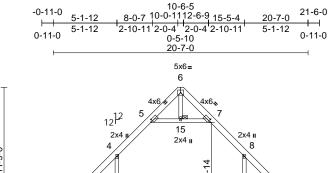
818 Soundside Road Edenton, NC 27932

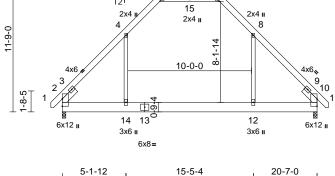
Job	Truss	Truss Type	Qty	Ply	JSJ, Smith Prime Plan (12-19-24)	
4703108	B02	Attic	1	1	Job Reference (optional)	I74964177

Run: 8.83 S. Jun 11 2025 Print: 8.830 S. Jun 11 2025 MiTek Industries. Inc. Wed Jul 16.15:57:25 ID:sOr8II3xMMnJ9nagn2?ExmylvHX-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

5-1-12

Page: 1





Scale = 1:93.1

Plate Offsets (X, Y): [5:0-1-13,0-2-0], [7:0-1-13,0-2-0]

	-								-			
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.18	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	вс	0.34	Vert(CT)	-0.30	12-14	>815	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.12	12-14	>999	240	Weight: 189 lb	FT = 20%

10-3-8

LUMBER

TOP CHORD 2x6 SP No.2

BOT CHORD 2x10 SP 2400F 2.0E or 2x10 SP DSS WEBS 2x4 SP No.2 *Except* 6-15:2x4 SP No.3 SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2

-- 1-6-0 **BRACING**

TOP CHORD Structural wood sheathing directly applied or

4-8-11 oc purlins.

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

bracing.

JOINTS 1 Brace at Jt(s): 15

REACTIONS (size) 2=0-3-8, 10=0-3-8

Max Horiz 2=-366 (LC 10) Max Uplift 2=-69 (LC 13), 10=-69 (LC 12)

Max Grav 2=1247 (LC 21), 10=1247 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/34, 2-4=-1452/262, 4-5=-806/265,

5-6=-50/204, 6-7=-50/204, 7-8=-805/265,

8-10=-1452/262, 10-11=0/34 BOT CHORD

2-14=-150/896, 12-14=0/897, 10-12=-23/895

WEBS 8-12=-70/684, 4-14=-71/684,

5-15=-1038/412, 7-15=-1038/412, 6-15=0/69

NOTES

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-15, 7-15; Wall dead load (5.0psf) on member(s).8-12, 4-14
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 2 and 69 lb uplift at joint 10.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

5-1-12



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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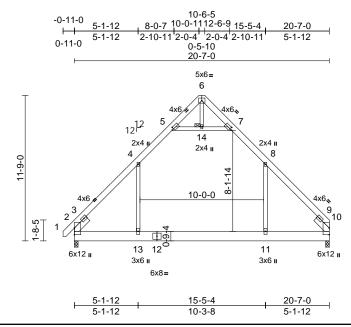
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	JSJ, Smith Prime Plan (12-19-24)	
4703108	B03	Attic	4	1	Job Reference (optional)	174964178

Run: 8.83 S. Jun 11 2025 Print: 8.830 S. Jun 11 2025 MiTek Industries. Inc. Wed. Jul 16 15:57:26 ID:L6F3uflB4ZlpouYLog_lxayIvE3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:93.1

Plate Offsets (X, Y): [5:0-1-13,0-2-0], [7:0-1-13,0-2-0]

-												•
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.18	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.30	11-13	>814	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horz(CT)	-0.03	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.12	11-13	>999	240	Weight: 187 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2

BOT CHORD 2x10 SP 2400F 2.0E or 2x10 SP DSS 2x4 SP No.2 *Except* 6-14:2x4 SP No.3 WEBS SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2

-- 1-6-0 **BRACING**

TOP CHORD Structural wood sheathing directly applied or

4-8-11 oc purlins.

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

bracing.

JOINTS 1 Brace at Jt(s): 14

REACTIONS (size) 2=0-3-8, 10=0-3-8

Max Horiz 2=357 (LC 9)

Max Uplift 2=-68 (LC 13), 10=-61 (LC 12) Max Grav 2=1248 (LC 21), 10=1219 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/34, 2-4=-1454/262, 4-5=-806/264

5-6=-49/205, 6-7=-49/205, 7-8=-806/264,

8-10=-1453/249

2-13=-166/884, 11-13=-4/885, 10-11=-33/883 BOT CHORD **WEBS**

8-11=-70/685, 4-13=-70/685, 5-14=-1039/411,

7-14=-1039/411, 6-14=0/69

NOTES

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-14, 7-14; Wall dead load (5.0psf) on member(s).8-11, 4-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 11-13
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 10 and 68 lb uplift at joint 2.
- Attic room checked for L/360 deflection.

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.

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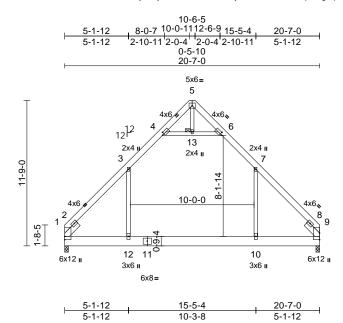
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	JSJ, Smith Prime Plan (12-19-24)	
4703108	B04	Attic	3	1	Job Reference (optional)	174964179

Run: 8.83 S Jun 11 2025 Print: 8.830 S Jun 11 2025 MiTek Industries, Inc. Wed Jul 16 15:57:26 ID:yL9Dy3KImJo0YGDZcmrZtiyIvDJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:93.1

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

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	0.86	Vert(LL)	-0.18	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.30	10-12	>814	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horz(CT)	-0.03	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.12	10-12	>999	240	Weight: 184 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2

BOT CHORD 2x10 SP 2400F 2.0E or 2x10 SP DSS WEBS 2x4 SP No.2 *Except* 5-13:2x4 SP No.3 SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2

-- 1-6-0 **BRACING**

TOP CHORD Structural wood sheathing directly applied or

4-8-7 oc purlins.

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

bracing. JOINTS

1 Brace at Jt(s): 13 REACTIONS (size) 1=0-3-8, 9=0-3-8

Max Horiz 1=340 (LC 9)

Max Uplift 1=-60 (LC 13), 9=-60 (LC 12) Max Grav 1=1220 (LC 21), 9=1220 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-3=-1456/249, 3-4=-807/264, 4-5=-49/205, TOP CHORD

5-6=-49/206, 6-7=-807/264, 7-9=-1455/249

BOT CHORD 1-12=-151/885, 10-12=-4/886, 9-10=-32/884 **WEBS** 7-10=-69/686, 3-12=-70/686

4-13=-1040/409, 6-13=-1040/409, 5-13=0/69

NOTES

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-13, 6-13; Wall dead load (5.0psf) on member(s).7-10, 3-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 10-12
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 1 and 60 lb uplift at joint 9.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



July 17,2025

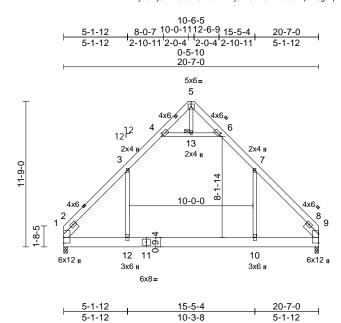
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Job	Truss	Truss Type	Qty	Ply	JSJ, Smith Prime Plan (12-19-24)	
4703108	B05	Attic	1	2	Job Reference (optional)	I74964180

Run: 8.83 S. Jun 11 2025 Print: 8.830 S. Jun 11 2025 MiTek Industries. Inc. Wed. Jul 16 15:57:26 ID:yL9Dy3KImJo0YGDZcmrZtiyIvDJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:93.1

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

Loading	(psf)	Spacing	2-6-0	CSI		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL (roof)	. ,	Plate Grip DOL	1.15	TC		Vert(LL)		10-12			MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.19	10-12	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.12	Horz(CT)	-0.02	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.07	10-12	>999	240	Weight: 368 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2

BOT CHORD 2x10 SP 2400F 2.0E or 2x10 SP DSS 2x4 SP No.2 *Except* 5-13:2x4 SP No.3 WEBS **SLIDER** Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

JOINTS 1 Brace at Jt(s): 13

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

Max Horiz 1=424 (LC 9) Max Uplift 1=-75 (LC 13), 9=-75 (LC 12)

Max Grav 1=1525 (LC 21), 9=1525 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-1818/237, 3-4=-1007/330, 4-5=-63/255,

5-6=-63/255, 6-7=-1007/330, 7-9=-1818/237

BOT CHORD 1-12=-181/1104, 10-12=-5/1105,

9-10=-36/1103

WEBS 7-10=-90/858, 3-12=-91/859

4-13=-1300/516, 6-13=-1300/516, 5-13=0/87

NOTES

- 1) 2-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: 2x10 - 2 rows staggered at 0-9-0 oc.
- Web connected as follows: 2x4 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-13, 6-13; Wall dead load (5.0psf) on member(s).7-10, 3-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 10-12
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 1 and 75 lb uplift at joint 9.
- 10) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



Page: 1

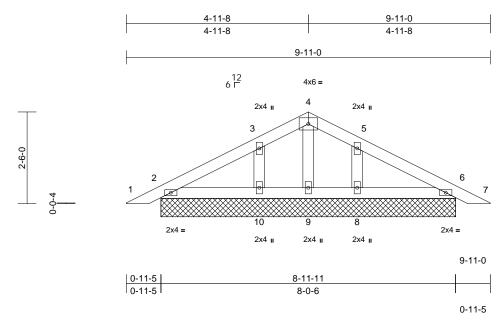
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Job	Truss	Truss Type	Qty	Ply	JSJ, Smith Prime Plan (12-19-24)	
4703108	PB01	Piggyback	2	1	Job Reference (optional)	174964181

Run: 8.83 S Jun 11 2025 Print: 8.830 S Jun 11 2025 MiTek Industries. Inc. Wed Jul 16 15:57:26 ID:oluU2EyA?oaoUSFCNBWQbhyIvUa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:31.4

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 34 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 2=8-0-6, 6=8-0-6, 8=8-0-6, 9=8-0-6,

10=8-0-6

Max Horiz 2=52 (LC 12)

Max Uplift 2=-42 (LC 12), 6=-52 (LC 13), 8=-108 (LC 13), 10=-109 (LC 12)

2=137 (LC 1), 6=137 (LC 1), 8=215

(LC 1), 9=58 (LC 13), 10=215 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-37/47, 3-4=-50/103, 4-5=-50/103, 5-6=-29/30, 6-7=0/17 **BOT CHORD**

2-10=-13/61, 9-10=-13/61, 8-9=-13/61,

WEBS 4-9=-44/10, 3-10=-141/153, 5-8=-141/154

NOTES

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

- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 2, 52 lb uplift at joint 6, 109 lb uplift at joint 10, 108 lb uplift at joint 8, 42 lb uplift at joint 2 and 52 lb uplift at ioint 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



July 17,2025

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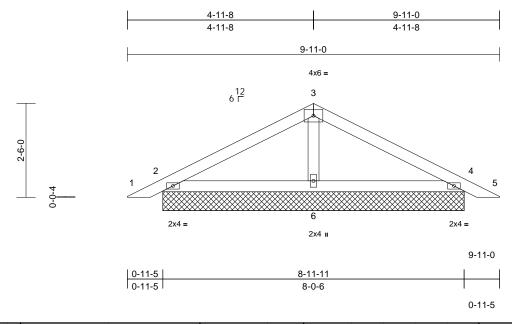
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Job	Truss	Truss Type	Qty	Ply	JSJ, Smith Prime Plan (12-19-24)	
4703108	PB02	Piggyback	19	1	Job Reference (optional)	174964182

Run: 8.83 S Jun 11 2025 Print: 8.830 S Jun 11 2025 MiTek Industries, Inc. Wed Jul 16 15:57:27 ID: hFcZJno03pyeQSli6ynNZxylvUn-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ffrom Properties and Properties and

Page: 1



Scale = 1:30.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 31 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 2=8-0-6, 4=8-0-6, 6=8-0-6

Max Horiz 2=-52 (LC 17)

2=-80 (LC 12), 4=-90 (LC 13), Max Uplift

6=-52 (LC 12)

2=201 (LC 1), 4=201 (LC 1), 6=318 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-95/104, 3-4=-95/105,

4-5=0/17

BOT CHORD 2-6=-26/62, 4-6=-19/62

3-6=-175/118 **WEBS**

NOTES

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

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 2, 90 lb uplift at joint 4, 52 lb uplift at joint 6, 80 lb uplift at joint 2 and 90 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



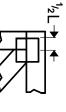
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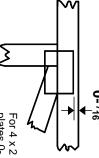


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

* Plate location details available in MiTek software or upon request

PLATE SIZE

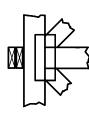
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



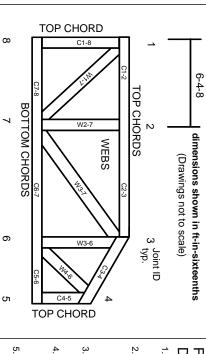
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

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

DSB-22: ANSI/TPI1:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

'n

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

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

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- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.