



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

RE: 0826-020 - ADAM PASTERNAK

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: ADAM PASTERNAK Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: COLUMBIA COUNTY State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 10 individual, Truss Design Drawings and 0 Additional Drawings.

With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

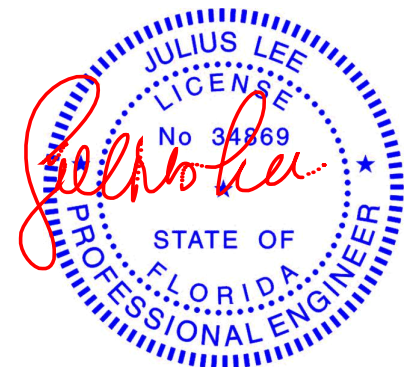
No.	Seal#	Truss Name	Date
1	T42215260	A01	8/17/26
2	T42215261	A02	8/17/26
3	T42215262	A03	8/17/26
4	T42215263	A04	8/17/26
5	T42215264	B01	8/17/26
6	T42215265	B02	8/17/26
7	T42215266	B03	8/17/26
8	T42215267	M01	8/17/26
9	T42215268	PB01	8/17/26
10	T42215269	PB02	8/17/26

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Lee, Julius

My license renewal date for the state of Florida is February 28, 2027.

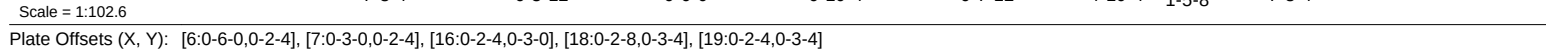
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 18, 2026

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Mon Aug 17 12:00:57 Page: 1
ID:RXBbtABIGITZh2tlPnu9UKyoK1j-RfC?PsB70Hg3NSgPqnL8w3ulTXbGKWRCdoi7J4zJC?f



LUMBER		2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=48ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 3-3-10, Zone1 3-3-10 to 20-6-0, Zone3 20-6-0 to 27-6-0, Zone2 27-6-0 to 34-3-7, Zone1 34-3-7 to 49-6-0 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
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.1 *Except* 18-16,19-18:2x4 SP No.2	3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
WEBS	2x4 SP No.2	4) Provide adequate drainage to prevent water ponding.
BRACING		5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-5-13 max.): 6-7.	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, with BCDL = 10.0psf.
BOT CHORD	Rigid ceiling directly applied.	7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 2, 88 lb uplift at joint 15 and 141 lb uplift at joint 12.
WEBS	1 Row at midpt 6-17, 4-19, 5-18	8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
REACTIONS	(size) 2=0-3-8, 12=0-3-8, 15=0-3-8 Max Horiz 2=184 (LC 11) Max Uplift 2=-32 (LC 12), 12=-141 (LC 26), 15=-88 (LC 12) Max Grav 2=1748 (LC 20), 12=158 (LC 27), 15=2694 (LC 2)	9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
FORCES	(lb) - Maximum Compression/Maximum Tension	LOAD CASE(S) Standard
TOP CHORD	1-2=0/28, 2-3=-4462/385, 3-4=-4205/339, 4-5=-2828/309, 5-6=-1868/330, 6-7=-1172/310, 7-8=-1417/296, 8-9=-840/145, 9-10=-146/1443, 10-11=-89/1286, 11-12=-3/963, 12-13=0/28	
BOT CHORD	2-20=-282/4350, 17-20=-211/4083, 15-17=-1215/685, 14-15=-1196/153, 12-14=-861/22	
WEBS	4-20=0/332, 6-18=-30/1142, 6-17=-717/93, 7-17=0/360, 8-17=-22/730, 8-16=-1073/209, 9-16=-237/2280, 9-15=-2525/306, 10-15=-199/139, 10-14=-162/380, 4-19=-1726/140, 5-18=-1207/158, 5-19=0/934, 3-20=-272/79, 11-14=-431/171	

August 18, 2026

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DS-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-IIS.com

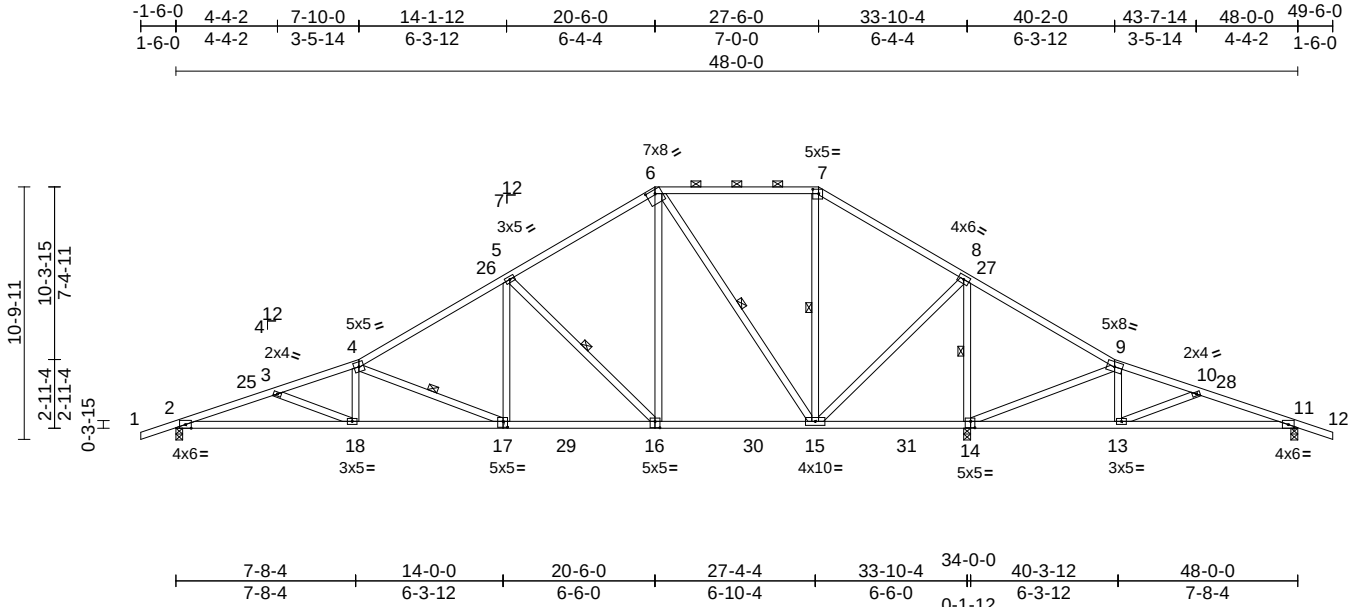
Job	Truss	Truss Type	Qty	Ply	ADAM PASTERNAK	T42215261
0826-020	A02	Piggyback Base	9	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Mon Aug 17 12:00:59

Page: 1

ID:PFs3Tj6lus_zinYcTGQG5AyoKDR-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f



Scale = 1:98.6

Plate Offsets (X, Y): [6:0-4-8,0-2-0], [7:0-3-0,0-2-4], [14:0-2-4,0-3-4], [16:0-2-8,0-3-4], [17:0-2-4,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.20	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.37	17-18	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.08	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 283 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-17, 5-16, 6-15, 7-15, 8-14

REACTIONS

(size) 2=0-3-8, 11=0-3-8, 14=0-3-8
Max Horiz 2=184 (LC 11)
Max Uplift 2=-22 (LC 12), 11=-126 (LC 12), 14=-161 (LC 12)
Max Grav 2=1437 (LC 20), 11=318 (LC 27), 14=2846 (LC 2)

FORCES

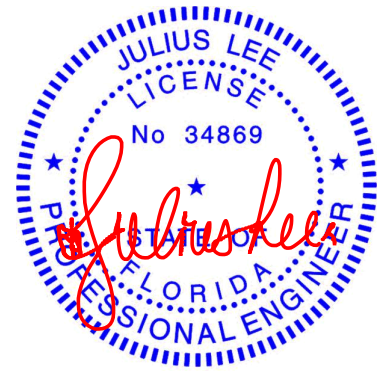
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-3=-3517/257, 3-4=-3240/208, 4-5=-2018/199, 5-6=-1131/230, 6-7=-326/193, 7-8=-452/164, 8-9=-157/1341, 9-10=0/849, 10-11=-170/580, 11-12=0/28
BOT CHORD 2-18=-160/3457, 15-18=-87/3166, 13-15=-1028/265, 11-13=-526/151
WEBS 4-18=0/345, 4-17=-1490/108, 5-17=0/839, 5-16=-1119/148, 6-16=-25/1081, 6-15=-1097/136, 7-15=-277/145, 8-15=-155/1869, 8-14=-2404/387, 9-14=-546/257, 9-13=-133/383, 3-18=-293/82, 10-13=-384/145

NOTES

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

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=48ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 3-3-10, Zone1 3-3-10 to 20-6-0, Zone3 20-6-0 to 27-6-0, Zone2 27-6-0 to 34-3-7, Zone1 34-3-7 to 49-6-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 2, 161 lb uplift at joint 14 and 126 lb uplift at joint 11.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingle Ridge Rd. Chesterfield, MO 63017
Date:

August 18,2026

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.sbcsccomponents.com)

MiTek®

16023 Swingle Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

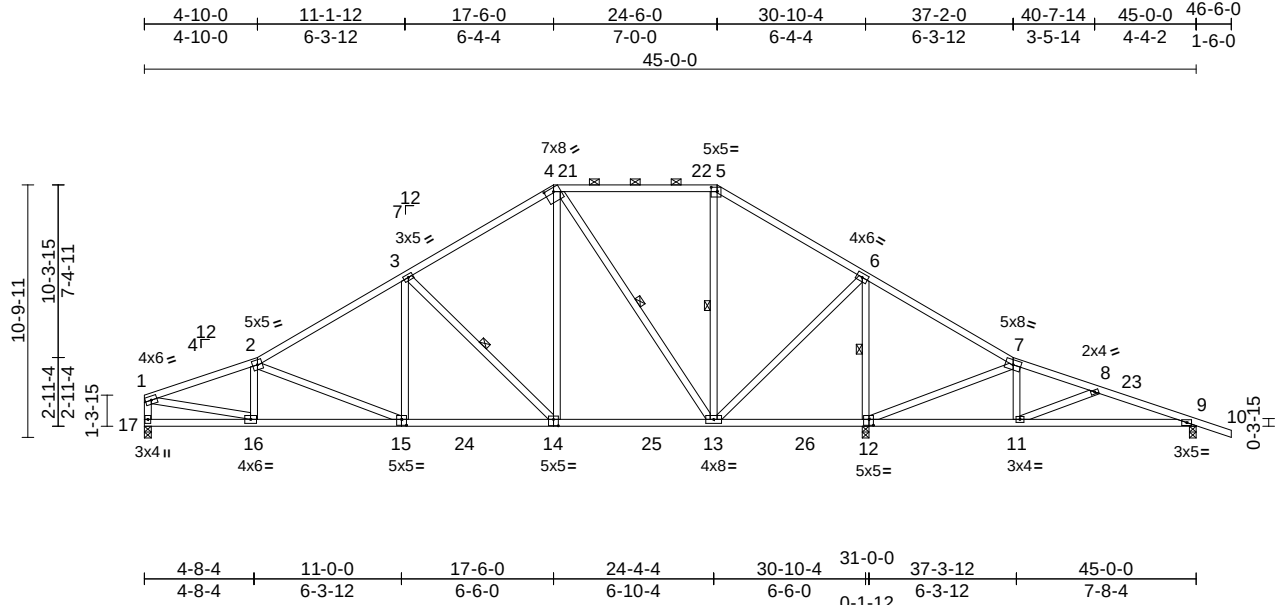
Job	Truss	Truss Type	Qty	Ply	ADAM PASTERNAK	T42215262
0826-020	A03	Piggyback Base	4	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Mon Aug 17 12:00:59

Page: 1

ID:PR9vgQudlpZwxJrcz7OS1MyoK_E-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:98.6

Plate Offsets (X, Y): [4:0-4-8,0-2-0], [5:0-3-0,0-2-4], [12:0-2-4,0-3-0], [14:0-2-8,0-3-4], [15:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	0.06	11-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.19	15-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.04	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 274 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 3-14, 4-13, 5-13, 6-12

REACTIONS (size) 9=0-3-8, 12=0-3-8, 17=0-3-8
Max Horiz 17=-198 (LC 10)
Max Uplift 9=-122 (LC 12), 12=-169 (LC 12)
Max Grav 9=418 (LC 27), 12=2447 (LC 2), 17=1293 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-2110/173, 2-3=-1758/156, 3-4=-1131/180, 4-5=-454/159, 5-6=-616/130, 6-7=-130/835, 7-8=-138/195, 8-9=-473/207, 9-10=0/28, 1-17=-1212/159

BOT CHORD 16-17=-115/281, 13-16=-78/2108, 11-13=-601/241, 9-11=-124/438

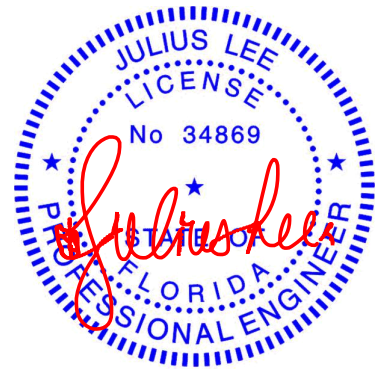
WEBS 2-16=-272/91, 2-15=-585/137, 3-15=0/494, 3-14=-812/131, 4-14=-14/861, 4-13=-831/118, 5-13=-236/108, 6-13=-106/1431, 6-12=-1946/301, 7-12=-652/260, 7-11=-128/375, 1-16=-80/1863, 8-11=-368/133

NOTES

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 4-10-0, Zone1 4-10-0 to 17-6-0, Zone2 17-6-0 to 23-10-6, Zone1 23-10-6 to 24-6-0, Zone2 24-6-0 to 30-10-4, Zone1 30-10-4 to 46-6-0 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 169 lb uplift at joint 12 and 122 lb uplift at joint 9.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 18,2026

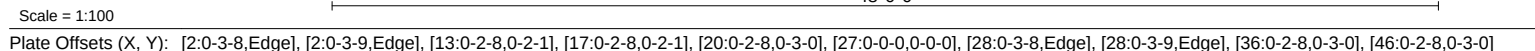
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 the 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.tpinet.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Mon Aug 17 12:01:00 Page: 1
ID:fvaXZqEphBiQ?AcTYSMQOvoJck-Rfc?PsB70Hg3NSqPanL8w3ulTXbgKwKRCdoi7J4zJC?f



LUMBER		Max Grav	2=244 (LC 23), 28=244 (LC 24),	WEBS	15-41=-130/93, 14-42=-90/13, 12-44=-97/56,
TOP CHORD	2x4 SP No.2		30=286 (LC 24), 31=111 (LC 1),		11-45=-126/121, 10-46=-121/108,
BOT CHORD	2x4 SP No.2		32=164 (LC 24), 33=165 (LC 18),		9-47=-122/111, 8-48=-120/109,
OTHERS	2x4 SP No.2		34=161 (LC 18), 35=160 (LC 18),		7-49=-126/116, 6-50=-118/86, 5-51=-97/85,
BRACING			36=160 (LC 18), 37=169 (LC 18),		4-52=-185/100, 16-40=-90/13, 18-38=-94/56,
TOP CHORD	Structural wood sheathing directly applied, except		38=129 (LC 1), 39=62 (LC 1),		19-37=-128/122, 20-36=-120/108,
	2-0-0 oc purlins (10-0-0 max.): 13-17.		40=122 (LC 23), 41=173 (LC 23),		21-35=-120/109, 22-34=-120/109,
			42=122 (LC 24), 43=68 (LC 17),		23-33=-126/116, 24-32=-118/86,
BOT CHORD	Rigid ceiling directly applied.		44=133 (LC 17), 45=167 (LC 17),		25-31=-97/84, 26-30=-185/99,
WEBS	1=Dowelright, 15=41, 14=42, 13=44,		46=160 (LC 17), 47=162 (LC 17).		17-39=-102/18, 13-43=-102/18

REACTIONS (size)	2=48-0-0, 28=48-0-0, 30=48-0-0, 31=48-0-0, 32=48-0-0, 33=48-0-0, 34=48-0-0, 35=48-0-0, 36=48-0-0, 37=48-0-0, 38=48-0-0, 39=48-0-0, 40=48-0-0, 41=48-0-0, 42=48-0-0, 43=48-0-0, 44=48-0-0, 45=48-0-0, 46=48-0-0, 47=48-0-0, 48=48-0-0, 49=48-0-0, 50=48-0-0, 51=48-0-0, 52=48-0-0	FORCES	(lb) - Maximum Compression/Maximum Tension	this design. 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=48ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for member end forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
	2=-185 (LC 20) Max Horiz Max Uplift		1-2=0/28, 2-4=-132/146, 4-5=-126/132, 5-6=-115/131, 6-7=-122/139, 7-8=-111/124, 8-9=-99/135, 9-10=-88/203, 10-11=-87/270, 11-12=-112/342, 12-13=-121/378, 13-14=-110/350, 14-15=-110/350, 15-16=-110/350, 16-17=-110/350, 17-18=-121/378, 18-19=-112/342, 19-21=-87/269, 21-22=-44/136, 22-23=-33/69, 23-24=-41/62, 24-25=-59/53, 25-26=-93/53, 26-28=-131/72, 28-29=0/28	
	2=-32 (LC 12), 28=-32 (LC 12), 31=-13 (LC 12), 32=-3 (LC 12), 33=-19 (LC 12), 34=-16 (LC 12), 35=-16 (LC 12), 36=-15 (LC 12), 37=-21 (LC 12), 41=-5 (LC 12), 45=-20 (LC 12), 46=-15 (LC 12), 47=-16 (LC 12), 48=-15 (LC 12), 49=-19 (LC 12), 50=-3 (LC 12), 51=-13 (LC 12)	BOT CHORD	2-52=-61/182, 51-52=-61/182, 50-51=-61/182, 49-50=-62/184, 48-49=-62/184, 47-48=-62/184, 45-47=-62/184, 44-45=-62/184, 43-44=-62/184, 42-43=-62/182, 41-42=-62/182, 40-41=-62/182, 39-40=-62/182, 38-39=-62/184, 37-38=-62/184, 35-37=-62/184, 34-35=-62/183, 33-34=-62/183, 32-33=-62/183, 31-32=-61/182, 30-31=-61/182, 28-30=-61/182	

As shown: Lumber DOL 160 plate grip
60



The image shows a circular blue seal for a Professional Engineer in the State of Florida. The outer ring contains the text "JULIUS REE" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside the ring, the word "LICENSE" is at the top, "No 34869" is in the center, and "STATE OF FLORIDA" is at the bottom, also flanked by two stars. A red cursive signature, "J. Subasree", is written across the seal.

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 18, 2026

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	ADAM PASTERNAK
0826-020	A04	Piggyback Base Supported Gable	1	1	T42215263
					Job Reference (optional)

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 (I) MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) 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 32 lb uplift at joint 2, 32 lb uplift at joint 28, 5 lb uplift at joint 41, 20 lb uplift at joint 45, 15 lb uplift at joint 46, 16 lb uplift at joint 47, 15 lb uplift at joint 48, 19 lb uplift at joint 49, 3 lb uplift at joint 50, 13 lb uplift at joint 51, 21 lb uplift at joint 37, 15 lb uplift at joint 36, 16 lb uplift at joint 35, 16 lb uplift at joint 34, 19 lb uplift at joint 33, 3 lb uplift at joint 32, 13 lb uplift at joint 31, 32 lb uplift at joint 2 and 32 lb uplift at joint 28.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 13) 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

 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.sbcsccomponents.com)



16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

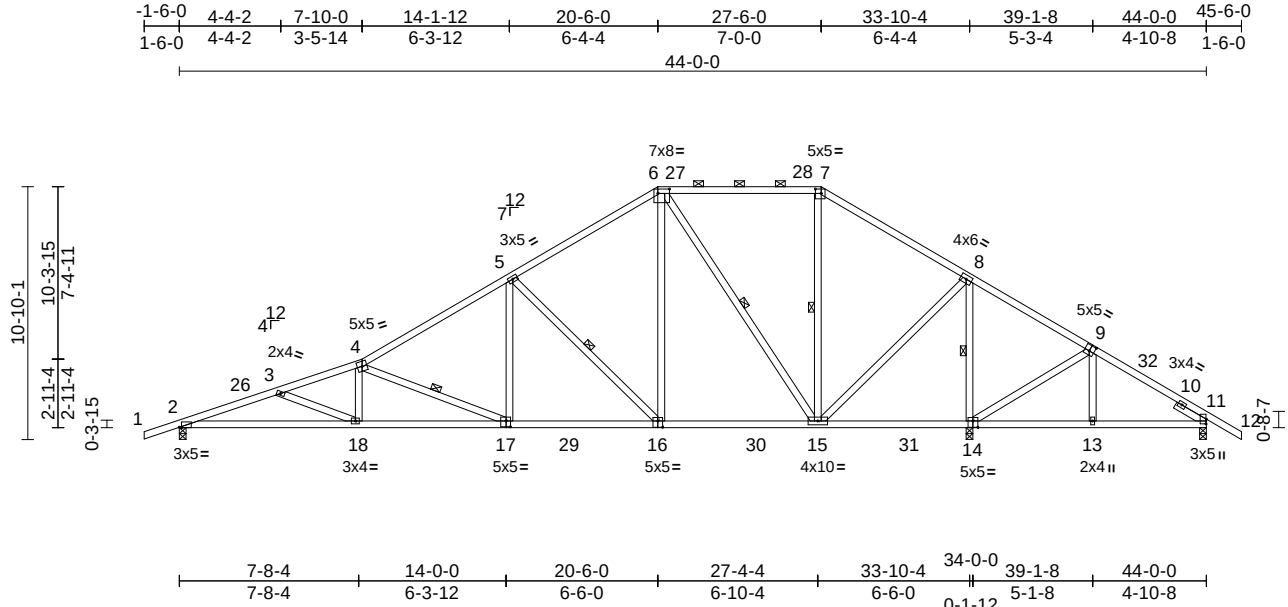
Job	Truss	Truss Type	Qty	Ply	ADAM PASTERNAK	T42215264
0826-020	B01	Piggyback Base	7	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Mon Aug 17 12:01:00

Page: 1

ID:sl3rZwVUkmqJyux7ltQTHyOJUS-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f



Scale = 1:98.7

Plate Offsets (X, Y): [2:0-1-2,Edge], [6:0-6-0,0-2-4], [7:0-3-0,0-2-4], [9:0-2-8,0-3-0], [11:0-2-6,0-0-3], [14:0-2-8,0-3-4], [16:0-2-8,0-3-4], [17:0-2-4,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.20	17-18	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.38	17-18	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.08	14	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
Weight: 268 lb FT = 20%											

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Right 2x4 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-17, 5-16, 6-15, 7-15, 8-14

REACTIONS

(size) 2=0-3-8, 11=0-3-8, 14=0-3-8
Max Horiz 2=192 (LC 11)
Max Uplift 2=-38 (LC 12), 11=-320 (LC 23)
Max Grav 2=1434 (LC 17), 11=141 (LC 24), 14=2842 (LC 17)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-3=-3511/221, 3-4=-3236/199, 4-5=-2017/214, 5-6=-1131/237, 6-7=-369/208, 7-8=-494/203, 8-11=-159/1295, 11-12=0/45
BOT CHORD 2-18=-136/3453, 15-18=-97/3164, 13-15=-975/158, 11-13=-668/95
WEBS 4-18=0/344, 4-17=-1487/95, 5-17=0/837, 5-16=-1117/148, 6-16=-23/1079, 6-15=-1092/90, 7-15=-235/82, 8-15=-36/1876, 3-18=-290/69, 8-14=-2353/209, 9-14=-541/80, 9-13=0/221

NOTES

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

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 2-10-13,
Zone1 2-10-13 to 20-6-0, Zone2 20-6-0 to 26-8-11,
Zone1 26-8-11 to 27-6-0, Zone2 27-6-0 to 33-10-4,
Zone1 33-10-4 to 45-6-0 zone; cantilever left and right
exposed ; end vertical left and right exposed;C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for
verifying applied roof live load shown 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 38 lb uplift at joint
2 and 320 lb uplift at joint 11.
- This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.
- 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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 18,2026

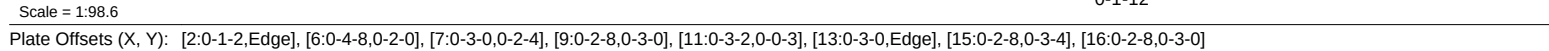
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.sbcsccomponents.com)

MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Mon Aug 17 12:01:00 Page: 1
ID:JTl4_OSzww33_rADmjt1yoJPM-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwCDOI7J4zJC?f



LUMBER		2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
TOP CHORD	2x4 SP No.2	Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
BOT CHORD	2x4 SP No.2 *Except* 15-13:2x4 SP 2850F	B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed;
WEBS	2x4 SP No.2	MWFRS (directional) and C-C Zone3 -1-6-0 to 2-10-13,
SLIDER	Right 2x4 SP No.2 -- 1-6-0	Zone1 2-10-13 to 20-6-0, Zone2 20-6-0 to 26-8-11,
BRACING		Zone1 26-8-11 to 27-6-0, Zone2 27-6-0 to 33-10-4,
TOP CHORD	Structural wood sheathing directly applied, except	Zone1 33-10-4 to 44-0-0 zone; cantilever left and right
BOT CHORD	2-0-0 oc purlins (6-0-0 max.): 6-7.	exposed ; end vertical left and right exposed;C-C for
WEBS	Rigid ceiling directly applied.	members and forces & MWFRS for reactions shown;
	1 Row at midpt 4-16, 5-15, 6-14, 7-14, 8-13	Lumber DOL=1.60 plate grip DOL=1.60
REACTIONS (size)	2=0-3-8, 11=10-3-8, 12=10-3-8, 13=10-3-8	3) Building Designer / Project engineer responsible for
Max Horiz	2=187 (LC 11)	verifying applied roof live load shown covers rain loading
Max Uplift	2=-34 (LC 12), 11=-108 (LC 23), 12=-800 (LC 25), 13=-25 (LC 12)	requirements specific to the use of this truss component.
Max Grav	2=1392 (LC 17), 11=147 (LC 24), 12=46 (LC 12), 13=3419 (LC 17)	4) Provide adequate drainage to prevent water ponding.
FORCES (lb) - Maximum Compression/Maximum Tension		5) This truss has been designed for a 10.0 psf bottom
TOP CHORD	1-2=0/28, 2-3=-3385/199, 3-4=-3107/179, 4-5=-1908/198, 5-6=-1032/222, 6-7=-276/189, 7-8=-406/183, 8-11=-111/1559	chord live load nonconcurrent with any other live loads.
BOT CHORD	2-17=-150/3325, 14-17=-111/3032, 12-14=-1205/160, 11-12=-286/9	6) * This truss has been designed for a live load of 20.0psf
WEBS	4-17=0/345, 4-16=-1455/89, 5-16=0/825, 5-15=-1106/146, 6-15=-2210/70, 6-14=-1143/98, 7-14=-286/93, 8-14=-61/2027, 8-13=-2531/238, 9-13=-1187/263, 9-12=-101/988, 3-17=-294/70	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.
		7) Provide mechanical connection (by others) of truss to
		bearing plate capable of withstanding 34 lb uplift at joint
		2, 25 lb uplift at joint 13, 800 lb uplift at joint 12, 108 lb
		uplift at joint 11 and 108 lb uplift at joint 11.
		8) This truss design requires that a minimum of 7/16"
		structural wood sheathing be applied directly to the top
		chord and 1/2" gypsum sheetrock be applied directly to
		the bottom chord.
		9) Graphical purlin representation does not depict the size
		or the orientation of the purlin along the top and/or
		bottom chord.
		LOAD CASE(S) Standard

August 18, 2026

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.sbcscomponents.com)

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

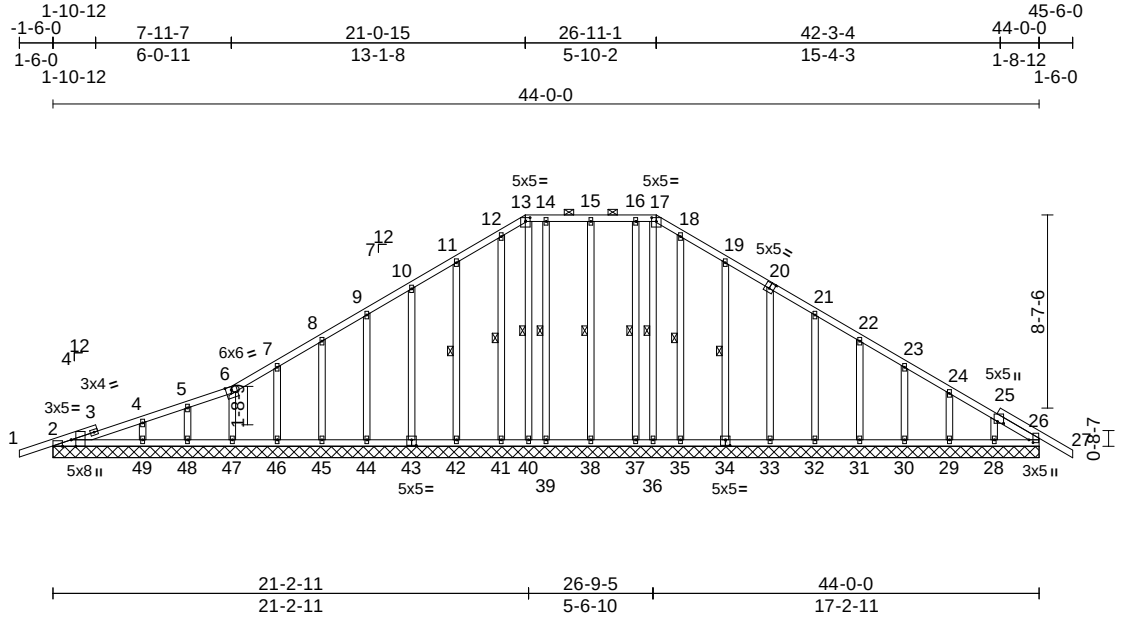
Job	Truss	Truss Type	Qty	Ply	ADAM PASTERNAK	T42215266
0826-020	B03	Piggyback Base Supported Gable	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Mon Aug 17 12:01:01

Page: 1

ID:Fnp?8AkjBdv0ummpDS1CpyoJkx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC?f



Scale = 1:102.8

Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-4-12,Edge], [13:0-2-8,0-2-1], [17:0-2-8,0-2-1], [20:0-2-8,0-3-0], [25:0-1-0,0-3-4], [26:0-1-8,0-2-3], [34:0-2-8,0-3-0], [43:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	26	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
Weight: 344 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied, except
	2-0-0 oc purlins (10-0-0 max.): 13-17.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt

REACTIONS

(size)	2=44-0-0, 26=44-0-0, 28=44-0-0, 29=44-0-0, 30=44-0-0, 31=44-0-0, 32=44-0-0, 33=44-0-0, 34=44-0-0, 35=44-0-0, 36=44-0-0, 37=44-0-0, 38=44-0-0, 39=44-0-0, 40=44-0-0, 41=44-0-0, 42=44-0-0, 43=44-0-0, 44=44-0-0, 45=44-0-0, 46=44-0-0, 47=44-0-0, 48=44-0-0, 49=44-0-0
Max Horiz	2=193 (LC 11)
Max Uplift	2=-31 (LC 12), 26=-12 (LC 12), 28=-11 (LC 8), 29=-13 (LC 12), 30=-16 (LC 12), 31=-16 (LC 12), 32=-16 (LC 12), 33=-15 (LC 12), 34=-21 (LC 12), 38=-6 (LC 12), 42=-20 (LC 12), 43=-15 (LC 12), 44=-16 (LC 12), 45=-15 (LC 12), 46=-19 (LC 12), 47=-3 (LC 12), 48=-13 (LC 12)

Max Grav	2=244 (LC 23), 26=193 (LC 24), 28=148 (LC 18), 29=165 (LC 24), 30=160 (LC 18), 31=161 (LC 18), 32=159 (LC 18), 33=159 (LC 18), 34=169 (LC 18), 35=129 (LC 1), 36=62 (LC 12), 37=122 (LC 23), 38=173 (LC 24), 39=122 (LC 24), 40=67 (LC 17), 41=132 (LC 17), 42=166 (LC 17), 43=160 (LC 17), 44=161 (LC 17), 45=160 (LC 17), 46=164 (LC 17), 47=165 (LC 23), 48=111 (LC 1), 49=286 (LC 23)
----------	---

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/28, 2-4=-137/141, 4-5=-130/128, 5-6=-119/127, 6-7=-126/135, 7-8=-115/120, 8-9=-103/129, 9-10=-92/197, 10-11=-87/264, 11-12=-111/336, 12-13=-121/373, 13-14=-109/345, 14-15=-109/345, 15-16=-109/345, 16-17=-109/345, 17-18=-121/373, 18-19=-111/336, 19-21=-87/263, 21-22=-43/130, 22-23=-36/62, 23-24=-45/55, 24-25=-81/61, 25-26=-136/69, 26-27=0/45
BOT CHORD	2-49=-63/193, 48-49=-63/193, 47-48=-63/193, 46-47=-64/195, 45-46=-64/195, 44-45=-64/195, 42-44=-64/195, 41-42=-64/195, 40-41=-64/195, 39-40=-63/193, 38-39=-63/193, 37-38=-63/193, 36-37=-63/193, 35-36=-63/195, 33-35=-63/195, 32-33=-63/194, 31-32=-63/194, 30-31=-63/194, 29-30=-63/194, 28-29=-63/194, 26-28=-63/194

WEBS

14-39=-89/15, 12-41=-96/58, 11-42=-125/122, 10-43=-120/108, 9-44=-121/111, 8-45=-120/109, 7-46=-126/116, 6-47=-118/85, 5-48=-97/85, 4-49=-185/99, 15-38=-130/94, 16-37=-89/15, 18-35=-93/58, 19-34=-128/123, 20-33=-120/108, 21-32=-119/109, 22-31=-121/110, 23-30=-120/111, 24-29=-122/102, 25-28=-112/110, 13-40=-104/20, 17-36=-104/20

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 18,2026

Continued on page 2

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

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.tpinet.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	ADAM PASTERNAK
0826-020	B03	Piggyback Base Supported Gable	1	1	T42215266
					Job Reference (optional)

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 (I) MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) 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 31 lb uplift at joint 2, 20 lb uplift at joint 42, 15 lb uplift at joint 43, 16 lb uplift at joint 44, 15 lb uplift at joint 45, 19 lb uplift at joint 46, 3 lb uplift at joint 47, 13 lb uplift at joint 48, 6 lb uplift at joint 38, 21 lb uplift at joint 34, 15 lb uplift at joint 33, 16 lb uplift at joint 32, 16 lb uplift at joint 31, 16 lb uplift at joint 30, 13 lb uplift at joint 29, 11 lb uplift at joint 28, 12 lb uplift at joint 26, 31 lb uplift at joint 2 and 12 lb uplift at joint 26.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 13) 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

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

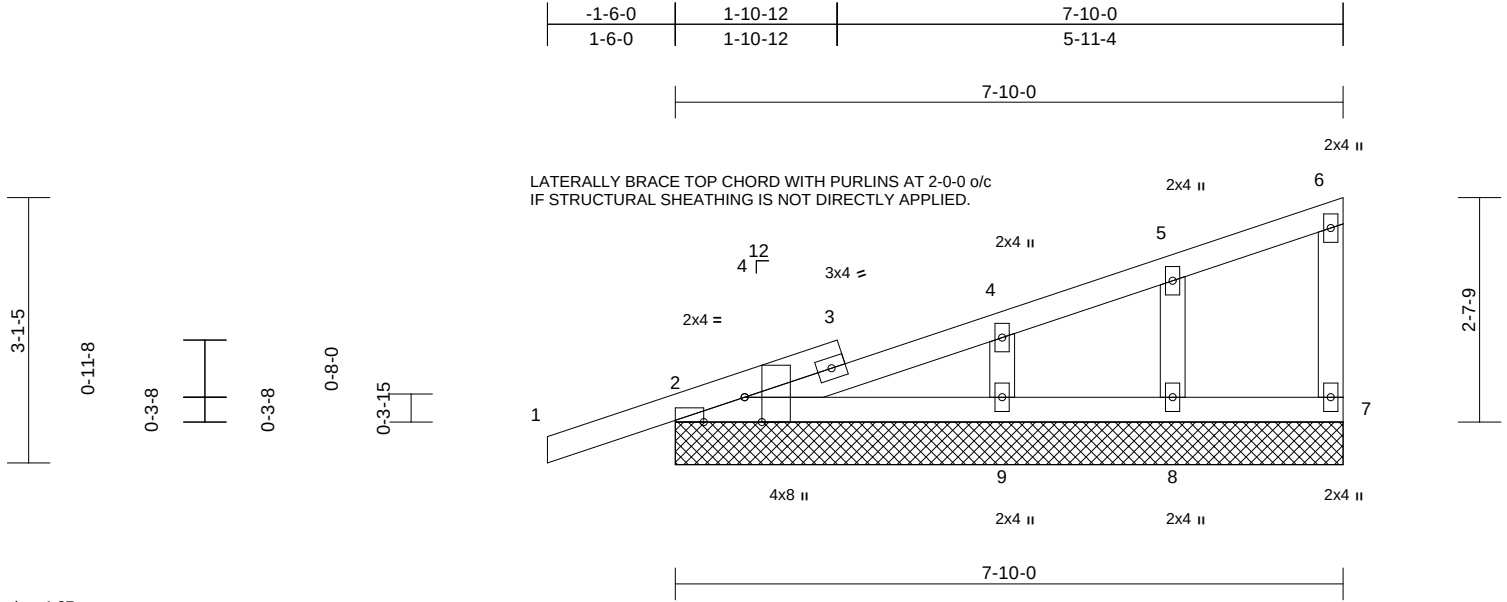
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

Job	Truss	Truss Type	Qty	Ply	ADAM PASTERNAK	T42215267
0826-020	M01	Monopitch Supported Gable	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Mon Aug 17 12:01:01
ID:94xc1yVvKPyOkZ3_cZxbR24yoJ9o-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	2	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
										Weight: 34 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS	(size)	2=7-10-0, 7=7-10-0, 8=7-10-0, 9=7-10-0
	Max Horiz	2=93 (LC 12)
	Max Uplift	2=-47 (LC 12), 7=-9 (LC 12), 8=-29 (LC 12), 9=-23 (LC 12)
	Max Grav	2=240 (LC 1), 7=66 (LC 17), 8=131 (LC 1), 9=273 (LC 17)

FORCES

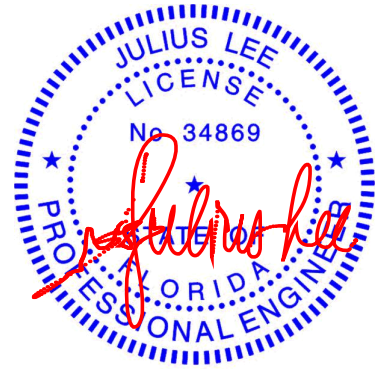
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/28, 2-4=-167/67, 4-5=-93/30, 5-6=-28/12, 6-7=-47/67
BOT CHORD	2-9=-5/18, 8-9=0/0, 7-8=0/0
WEBS	5-8=-109/181, 4-9=-176/209

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 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.

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 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 47 lb uplift at joint 2, 9 lb uplift at joint 7, 29 lb uplift at joint 8, 23 lb uplift at joint 9 and 47 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 18,2026

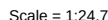
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.sbcsccomponents.com)

MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Mon Aug 17 12:01:02 Page: 1
ID:SskJ2152MFIGTTODMrOo0IvokDTRfC?PsB70Hg3NSqPnL8w3uITXbGKWcRDoi7J4zJC?f



LUMBER

- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4'-0" oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 2, 20 lb uplift at joint 4, 90 lb uplift at joint 1, 76 lb uplift at joint 5, 11 lb uplift at joint 2 and 20 lb uplift at joint 4.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
 Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
 B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional) and C-C Zone3 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 Cable End Details as applicable,
 or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for
 verifying applied roof live load shown covers rain loading
 requirements specific to the use of this truss component.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 18, 2026



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DS-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

MiTek®

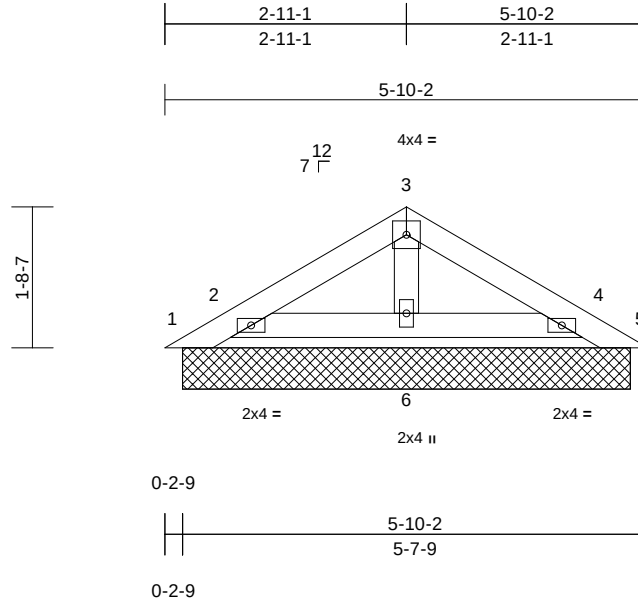
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-LLS.com

Job	Truss	Truss Type	Qty	Ply	ADAM PASTERNAK	T42215269
0826-020	PB02	Piggyback	2	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Mon Aug 17 12:01:02
ID:nbFdxrj5QJn9GcZGWwogbyoJky-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.06	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	4	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS						Weight: 18 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=5-4-15, 2=5-4-15, 4=5-4-15,
5=5-4-15, 6=5-4-15
Max Horiz 1=-27 (LC 10)
Max Uplift 1=-44 (LC 17), 2=-3 (LC 12), 4=-11 (LC 12), 5=-33 (LC 24)
Max Grav 1=8 (LC 9), 2=185 (LC 23), 4=171 (LC 24), 5=6 (LC 12), 6=146 (LC 1)

FORCES

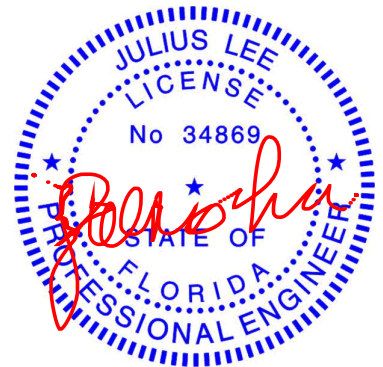
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-24/58, 2-3=-43/51, 3-4=-43/49, 4-5=-15/38
BOT CHORD 2-6=-7/37, 4-6=-7/37
WEBS 3-6=-73/31

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 2, 11 lb uplift at joint 4, 44 lb uplift at joint 1, 33 lb uplift at joint 5, 3 lb uplift at joint 2 and 11 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 18,2026

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

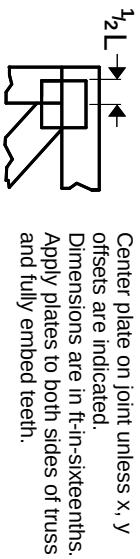
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.tpinet.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

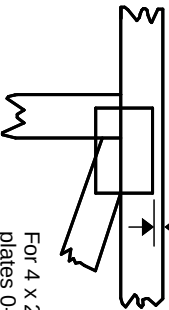
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Symbols

PLATE LOCATION AND ORIENTATION



0- $\frac{1}{16}$ "



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " 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 X 4

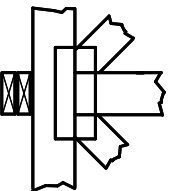
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

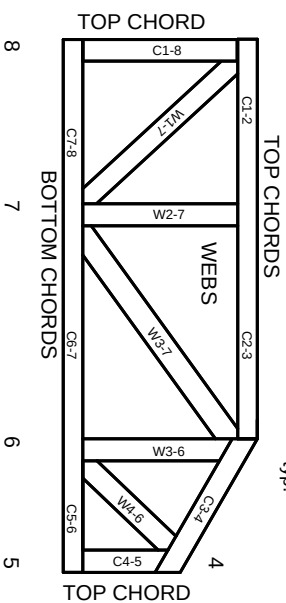
Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)

1 2 3 Joint ID typ.



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/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

© 2023 MITek® All Rights Reserved

MITek®

MITek Engineering Reference Sheet: MIL-7473 rev. 1/12/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. 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.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. 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.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.