



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

RE: 260310-04KM - Mitch Brown

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: Mitch Brown Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: 22980 S. US Hwy. 441, .
City: High Spring State: Fl.

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

Name: License #:
Address: State:
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 8.7
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 34.0 psf Floor Load: N/A psf

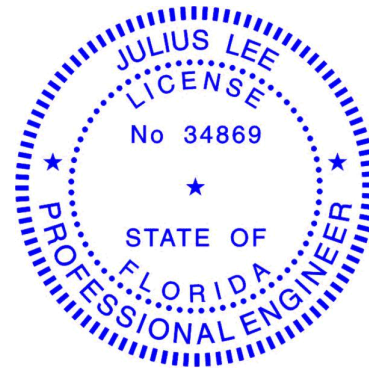
This package includes 30 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T40429698	M01	3/12/26	15	T40429712	H05	3/12/26
2	T40429699	H12	3/12/26	16	T40429713	H04	3/12/26
3	T40429700	H11	3/12/26	17	T40429714	H03	3/12/26
4	T40429701	H10	3/12/26	18	T40429715	H02	3/12/26
5	T40429702	H09	3/12/26	19	T40429716	T06	3/12/26
6	T40429703	H08	3/12/26	20	T40429717	H06	3/12/26
7	T40429704	H07	3/12/26	21	T40429718	J03	3/12/26
8	T40429705	T07	3/12/26	22	T40429719	H01	3/12/26
9	T40429706	J06	3/12/26	23	T40429720	J08	3/12/26
10	T40429707	J05	3/12/26	24	T40429721	J07	3/12/26
11	T40429708	J04	3/12/26	25	T40429722	T05	3/12/26
12	T40429709	J02	3/12/26	26	T40429723	T03	3/12/26
13	T40429710	J01	3/12/26	27	T40429724	GE02	3/12/26
14	T40429711	CJ01	3/12/26	28	T40429725	T02	3/12/26

This item has been digitally signed and sealed by Lee, Julius, PE on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

Truss Design Engineer's Name: Lee, Julius
My license renewal date for the state of Florida is February 28, 2027.



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

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.

March 12, 2026



RE: 260310-04KM - Mitch Brown

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: Mitch Brown Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: 22980 S. US Hwy. 441, .
City: High Spring State: Fl.

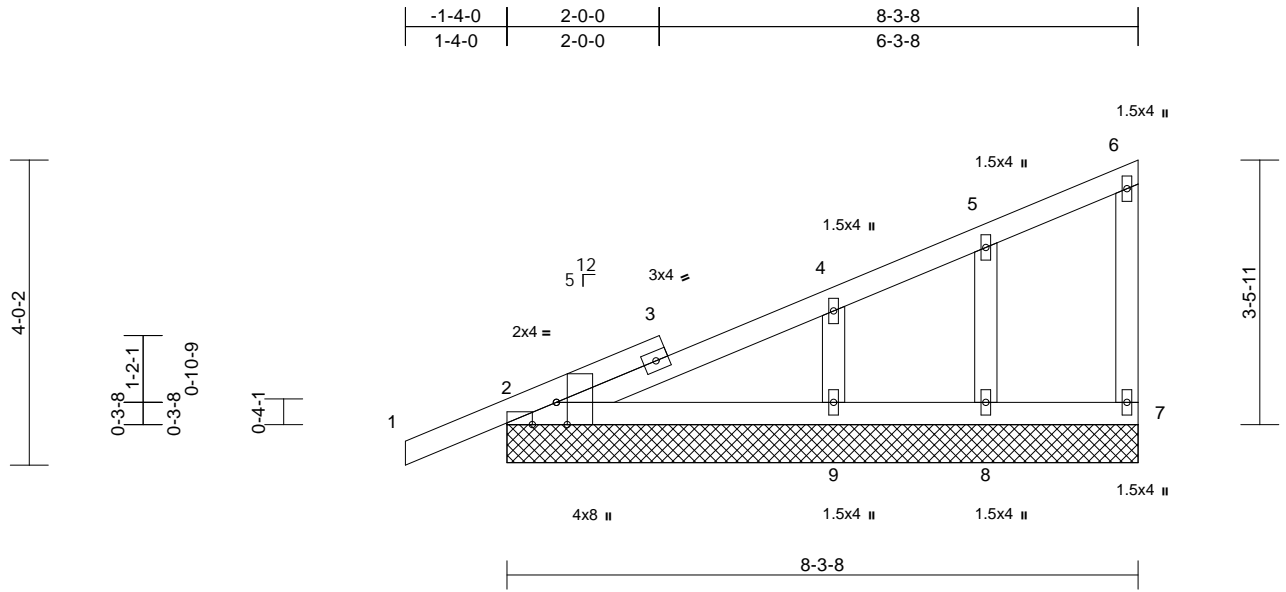
No.	Seal#	Truss Name	Date
29	T40429726	T01	3/12/26
30	T40429727	GE01	3/12/26

Job 260310-04KM	Truss M01	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T40429698
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:44
ID:p5wFE34ZCiw_tIjZq0DQTdzxQcK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?F

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	7	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 39 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 or 6-0-0 oc purlins, except end verticals.
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=8-3-8, 7=8-3-8, 8=8-3-8, 9=8-3-8
Max Horiz 2=155 (LC 11)
Max Uplift 2=-100 (LC 12), 7=-24 (LC 9),
8=-46 (LC 12), 9=-80 (LC 12)
Max Grav 2=207 (LC 1), 7=62 (LC 17), 8=93 (LC 1), 9=267 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-4=-311/166, 4-5=-177/114,
5-6=-93/94, 6-7=-70/108
BOT CHORD 2-9=-72/96, 8-9=-72/96, 7-8=-72/96
WEBS 5-8=-86/201, 4-9=-186/322


- 4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) 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.
8) All bearings are assumed to be SP No.2 .
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 2, 24 lb uplift at joint 7, 46 lb uplift at joint 8, 80 lb uplift at joint 9 and 100 lb uplift at joint 2.
- LOAD CASE(S)** Standard

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=18ft;
B=50ft; L=30ft; eave=2ft; Cat. II; Exp C; 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
 - 2) 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.
 - 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.

This item has been digitally signed and sealed by Lee, Julius, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

March 12,2026

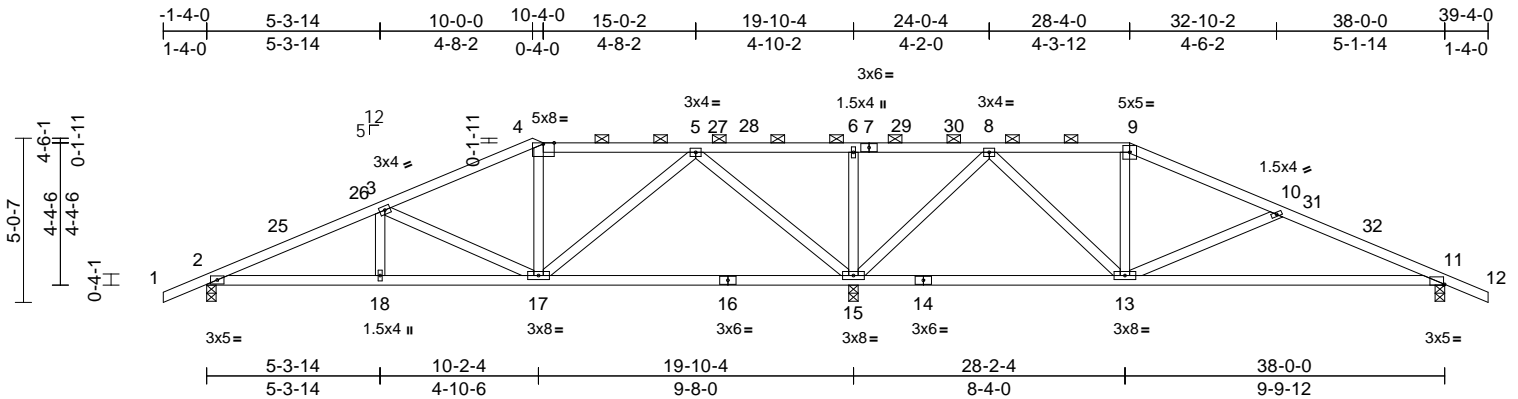
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 260310-04KM	Truss H12	Truss Type Roof Special	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T40429699
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:43
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Page: 1



Scale = 1:70.7

Plate Offsets (X, Y): [11:0-0-6,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	0.47	Vert(LL)	-0.17	15-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.30	13-24	>730	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.02	11	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 189 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 or 5-8-10 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-9.
BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 11=0-3-8, 15=0-3-8
Max Horiz 2=111 (LC 11)
Max Uplift 2=-218 (LC 12), 11=-197 (LC 12), 15=-474 (LC 12)
Max Grav 2=605 (LC 23), 11=537 (LC 24), 15=1646 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-3=-980/406, 3-4=-567/237, 4-5=-482/263, 5-6=-240/786, 6-8=-240/786, 8-9=-337/192, 9-10=-425/177, 10-11=-780/359, 11-12=0/28
BOT CHORD 2-18=-289/877, 17-18=-289/877, 15-17=-78/115, 13-15=-145/167, 11-13=-265/703
WEBS 3-18=0/132, 6-15=-245/132, 9-13=-105/102, 10-13=-398/301, 4-17=-63/79, 3-17=-446/282, 8-15=-896/420, 8-13=-213/561, 5-17=-198/562, 5-15=-1003/477

NOTES

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

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=38ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 2-5-10, Zone1 2-5-10 to 10-4-0, Zone2 10-4-0 to 15-8-8, Zone1 15-8-8 to 28-4-0, Zone2 28-4-0 to 33-8-8, Zone1 33-8-8 to 39-4-0 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.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at joint 2, 474 lb uplift at joint 15 and 197 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

This item has been digitally signed and sealed by Lee, Julius, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

March 12,2026

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

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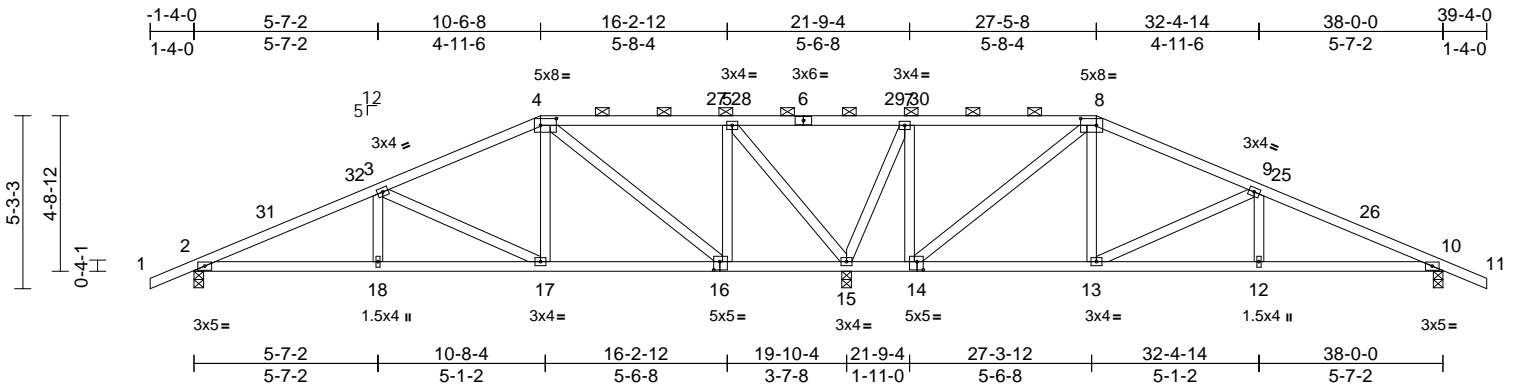
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260310-04KM	Truss H11	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T40429700
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

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Page: 1



Scale = 1:70.1

Plate Offsets (X, Y): [4:0-5-12,0-2-8], [8:0-5-12,0-2-8], [14:0-2-4,0-3-0], [16:0-2-4,0-3-0]

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	0.49	Vert(LL)	-0.04	18-21	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.07	18-21	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.02	10	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 201 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 or 5-8-4 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 4-8.
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16,14-15.

REACTIONS

(size) 2=0-3-8, 10=0-3-8, 15=0-3-8
Max Horiz 2=-118 (LC 10)
Max Uplift 2=-216 (LC 12), 10=-195 (LC 12), 15=-478 (LC 12)
Max Grav 2=605 (LC 23), 10=535 (LC 24), 15=1655 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 8-9=-329/133, 9-10=-801/268, 10-11=0/28, 4-5=0/131, 5-7=-190/786, 7-8=-52/399, 1-2=0/28, 2-3=-978/338, 3-4=-510/202
BOT CHORD 2-18=-232/863, 17-18=-232/863, 15-17=-171/427, 13-15=-426/262, 12-13=-178/700, 10-12=-178/700
WEBS 9-12=0/189, 9-13=-498/247, 8-13=-57/328, 4-17=-58/325, 3-17=-495/245, 3-18=0/188, 5-16=-101/454, 4-16=-623/231, 7-14=-132/513, 8-14=-740/273, 5-15=-997/371, 7-15=-908/344

NOTES

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

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft; B=50ft; L=38ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 2-5-10, Zone1 2-5-10 to 10-6-8, Zone2 10-6-8 to 15-11-0, Zone1 15-11-0 to 27-5-8, Zone2 27-5-8 to 32-10-0, Zone1 32-10-0 to 39-4-0 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 2, 195 lb uplift at joint 10 and 478 lb uplift at joint 15.
- 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

This item has been digitally signed and sealed by Lee, Julius, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

March 12,2026

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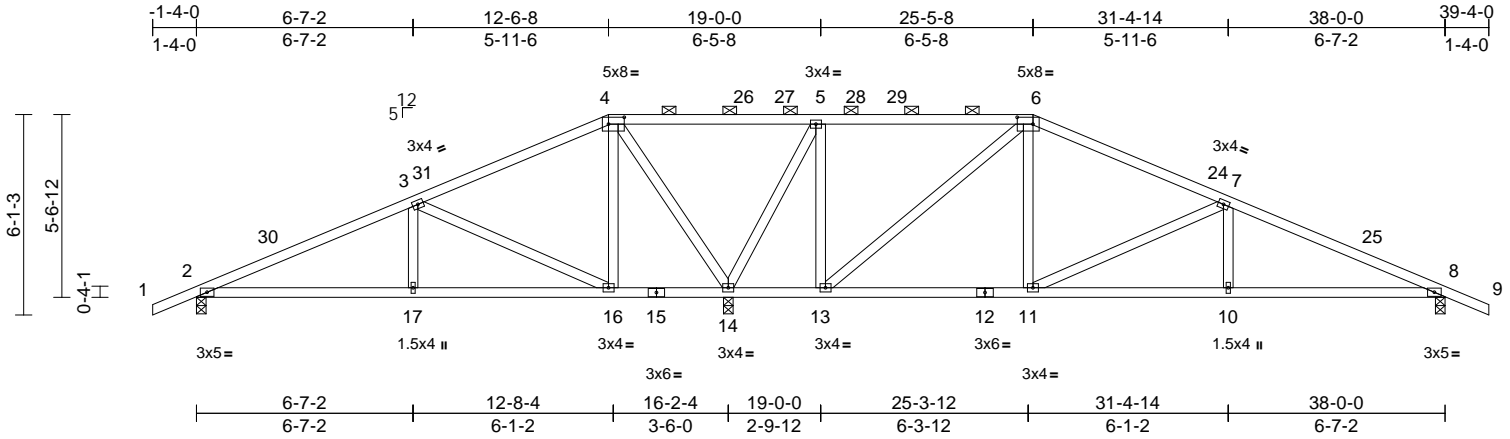
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260310-04KM	Truss H10	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T40429701
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:43
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Page: 1



Scale = 1:70.1

Plate Offsets (X, Y): [4:0-5-12,0-2-8], [6:0-5-12,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.06	10-23	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.11	10-23	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.02	8	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 198 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 or 5-2-7 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 4-6.
 BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 8=0-3-8, 14=0-3-8
 Max Horiz 2=-138 (LC 10)
 Max Uplift 2=-163 (LC 12), 8=-236 (LC 12), 14=-491 (LC 12)
 Max Grav 2=440 (LC 23), 8=676 (LC 24), 14=1706 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 6-7=-535/212, 7-8=-1111/374, 8-9=0/28, 4-5=-155/753, 5-6=0/252, 1-2=0/28, 2-3=-500/147, 3-4=-39/345
 BOT CHORD 2-17=-86/426, 16-17=-86/426, 14-16=-285/217, 13-14=-248/210, 11-13=-6/439, 10-11=-267/978, 8-10=-267/978
 WEBS 7-10=0/225, 7-11=-605/290, 6-11=-65/389, 6-13=-767/266, 5-13=-120/548, 4-16=-69/349, 3-16=-620/292, 3-17=0/239, 4-14=-867/316, 5-14=-1072/403

NOTES

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=38ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 2-5-10, Zone1 2-5-10 to 12-6-8, Zone2 12-6-8 to 17-11-0, Zone1 17-11-0 to 25-5-8, Zone2 25-5-8 to 30-10-0, Zone1 30-10-0 to 39-4-0 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
- 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.
- 7) All bearings are assumed to be SP No.2 .
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 2, 236 lb uplift at joint 8 and 491 lb uplift at joint 14.
- 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

This item has been digitally signed and sealed by Lee, Julius, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

March 12,2026

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

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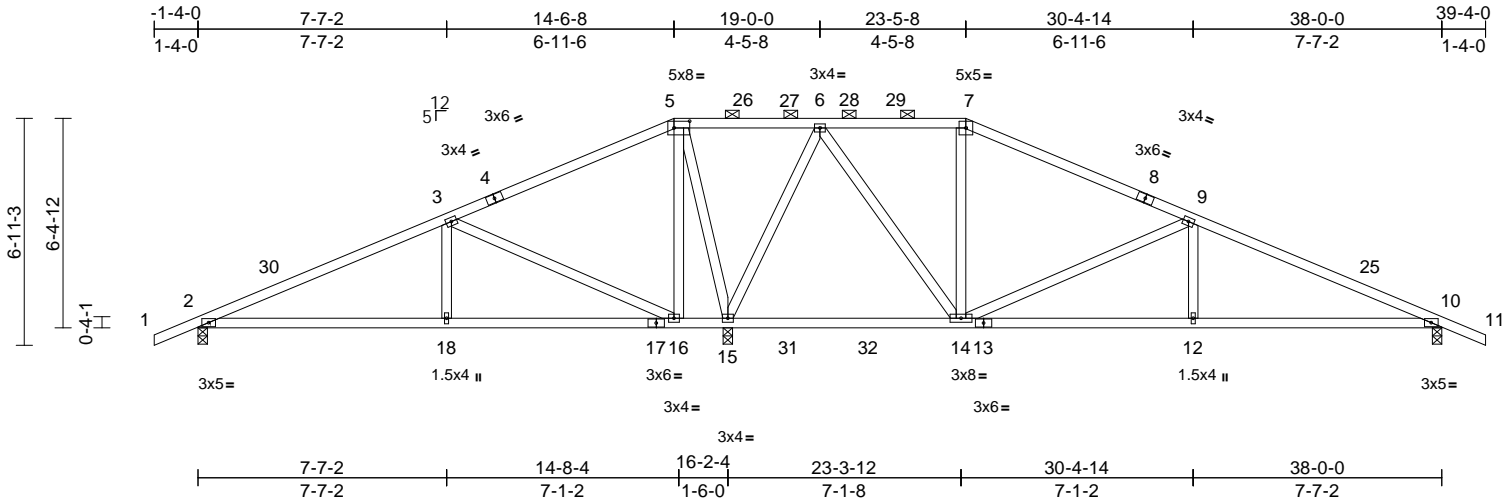
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 260310-04KM	Truss H09	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T40429702
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:43
ID:KvMt0k3xR0n7F88NGJbWQzXqL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:70.4

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.12	12-24	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.21	12-24	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.02	10	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 198 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 or 5-1-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 10=0-3-8, 15=0-3-8
Max Horiz 2=-158 (LC 10)
Max Uplift 2=-161 (LC 12), 10=-234 (LC 12), 15=-494 (LC 12)
Max Grav 2=437 (LC 23), 10=735 (LC 18), 15=1938 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 7-9=-352/161, 9-10=-1111/351, 10-11=0/28, 5-6=-105/752, 6-7=-244/195, 1-2=0/28, 2-3=-438/162, 3-5=-99/629
BOT CHORD 2-18=-137/364, 16-18=-137/364, 15-16=-567/297, 14-15=-332/222, 12-14=-238/982, 10-12=-238/982
WEBS 9-12=0/266, 9-14=-875/337, 7-14=-217/125, 5-16=-86/404, 3-16=-902/338, 3-18=0/282, 5-15=-908/312, 6-15=-1028/384, 6-14=-241/888

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=38ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 2-5-10, Zone1 2-5-10 to 14-6-8, Zone2 14-6-8 to 19-11-0, Zone1 19-11-0 to 23-5-8, Zone2 23-5-8 to 28-10-0, Zone1 28-10-0 to 39-4-0 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
- 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 = 7.0psf.
- 7) All bearings are assumed to be SP No.2.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at joint 2, 234 lb uplift at joint 10 and 494 lb uplift at joint 15.
- 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

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

March 12,2026

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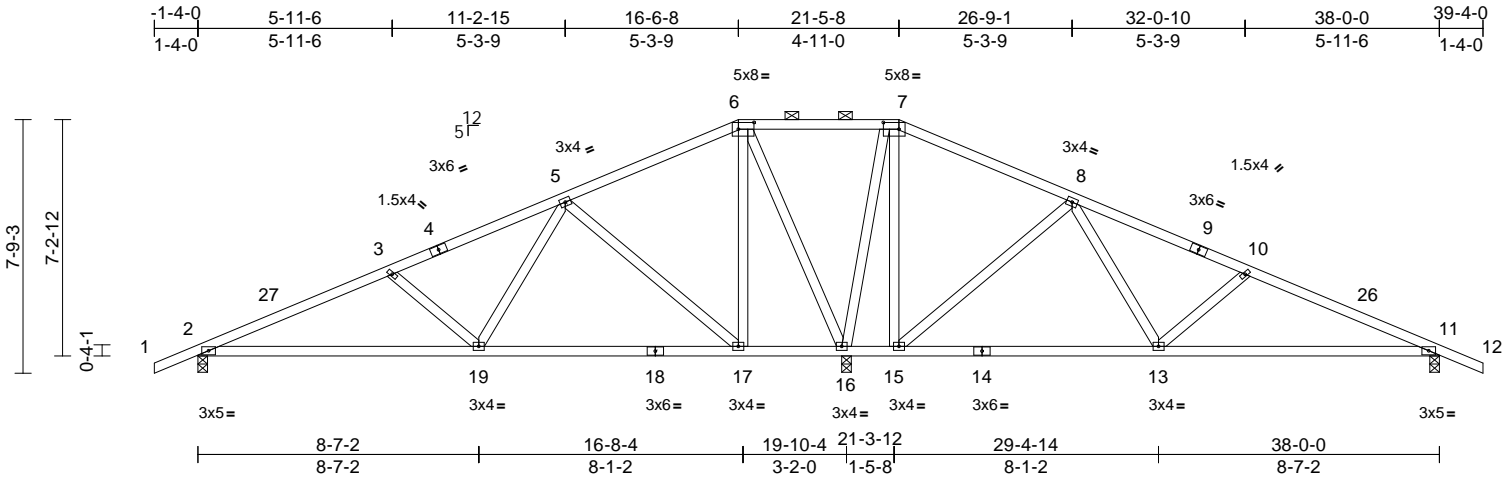
Job 260310-04KM	Truss H08	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T40429703
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:43

Page: 1

ID:sjoVpO2Jg4fGd?ZAibByOCzqCm-RfC?PsB70Hq3NSgPqL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:70.5

Plate Offsets (X, Y): [6:0-5-12,0-2-8], [7:0-5-12,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.10	19-22	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.18	19-22	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.01	16	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 209 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 or 5-11-5 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 6-7.
 BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 2-19.

REACTIONS

(size) 2=0-3-8, 11=0-3-8, 16=0-3-8
 Max Horiz 2=-178 (LC 10)
 Max Uplift 2=-196 (LC 12), 11=-174 (LC 12), 16=-519 (LC 12)
 Max Grav 2=576 (LC 23), 11=509 (LC 24), 16=1790 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 7-8=-80/579, 8-10=-433/119, 10-11=-675/184, 11-12=0/28, 6-7=-90/691, 1-2=0/28, 2-3=-845/260, 3-5=-604/190, 5-6=-13/377
 BOT CHORD 2-19=-155/752, 17-19=-130/305, 16-17=-310/261, 15-16=-478/333, 13-15=-210/145, 11-13=-96/595
 WEBS 10-13=-334/204, 8-13=-80/445, 8-15=-588/296, 7-15=-102/477, 6-17=-124/461, 5-17=-588/295, 5-19=-79/445, 3-19=-332/204, 6-16=-933/339, 7-16=-932/323

NOTES

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft; B=50ft; L=38ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 2-5-10, Zone1 2-5-10 to 16-6-8, Zone3 16-6-8 to 21-5-8, Zone2 21-5-8 to 26-9-1, Zone1 26-9-1 to 39-4-0 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
- 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.
- 7) All bearings are assumed to be SP No.2.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 2, 174 lb uplift at joint 11 and 519 lb uplift at joint 16.
- 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

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

March 12,2026

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

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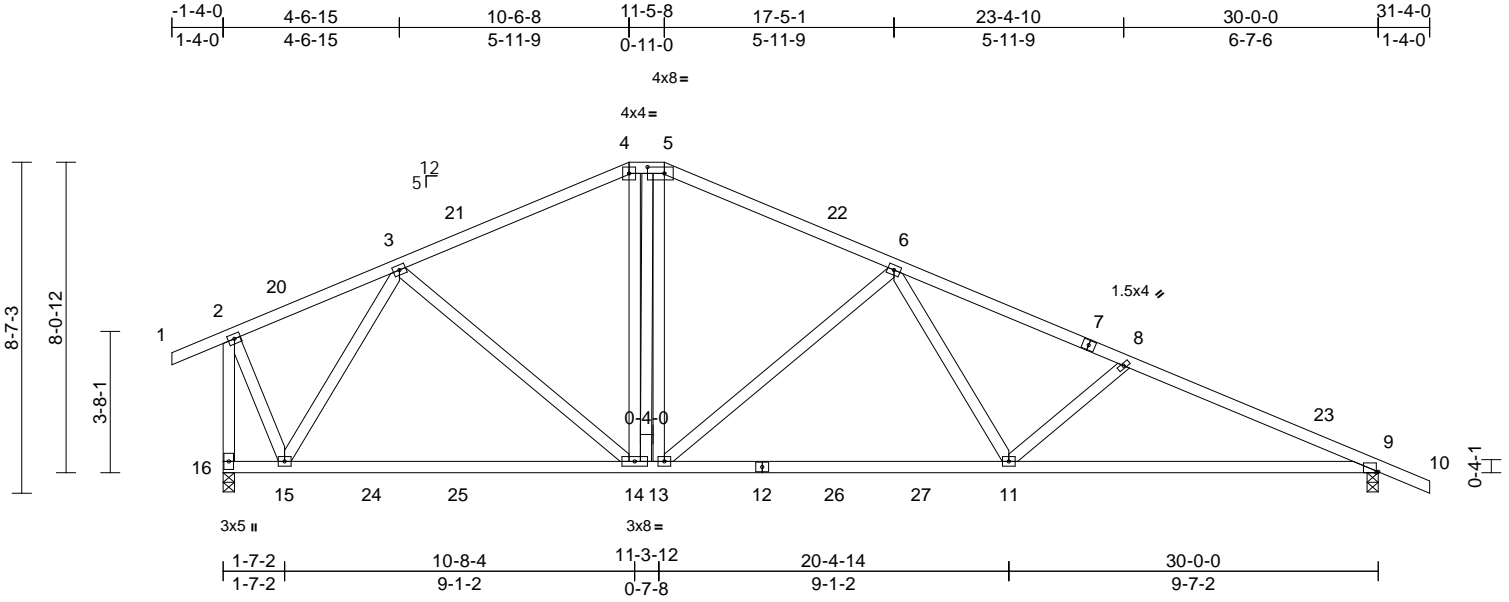
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 260310-04KM	Truss H07	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T40429704
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:43
ID:sjoVpO2Jg4fGd?ZAibByOCzxCqM-RfC?PsB70Hq3NSgPqnL8w3uITxGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:59.8
Plate Offsets (X, Y): [5:0-5-4,0-2-0], [9:0-0-10,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	0.53	Vert(LL)	-0.23	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.36	11-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.06	9	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 187 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 or 3-2-5 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-14 max.): 4-5.
BOT CHORD Structural wood sheathing directly applied or 2-2-0 oc bracing.

REACTIONS
(size) 9=0-3-8, 16=0-3-8
Max Horiz 16=267 (LC 10)
Max Uplift 9=-365 (LC 12), 16=-368 (LC 12)
Max Grav 9=1229 (LC 18), 16=1206 (LC 19)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-524/236, 3-4=-1165/464, 4-5=-1031/474, 5-6=-1183/478, 6-8=-2134/658, 8-9=-2384/735, 9-10=0/28, 2-16=-1312/405
BOT CHORD 15-16=-155/210, 14-15=-163/925, 13-14=-139/1086, 11-13=-364/1574, 9-11=-571/2168
WEBS 3-15=-814/353, 3-14=-23/350, 4-14=-70/337, 5-14=-294/102, 5-13=-145/533, 6-13=-783/319, 6-11=-85/646, 8-11=-368/223, 2-15=-223/1089

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 6-8-0 to 9-8-0, Zone1 9-8-0 to 18-6-8, Zone3 18-6-8 to 19-5-8, Zone2 19-5-8 to 23-8-7, Zone1 23-8-7 to 39-4-0 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.
- All plates are 3x4 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 = 7.0psf.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 16 and 365 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.


LOAD CASE(S) Standard

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

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

March 12,2026

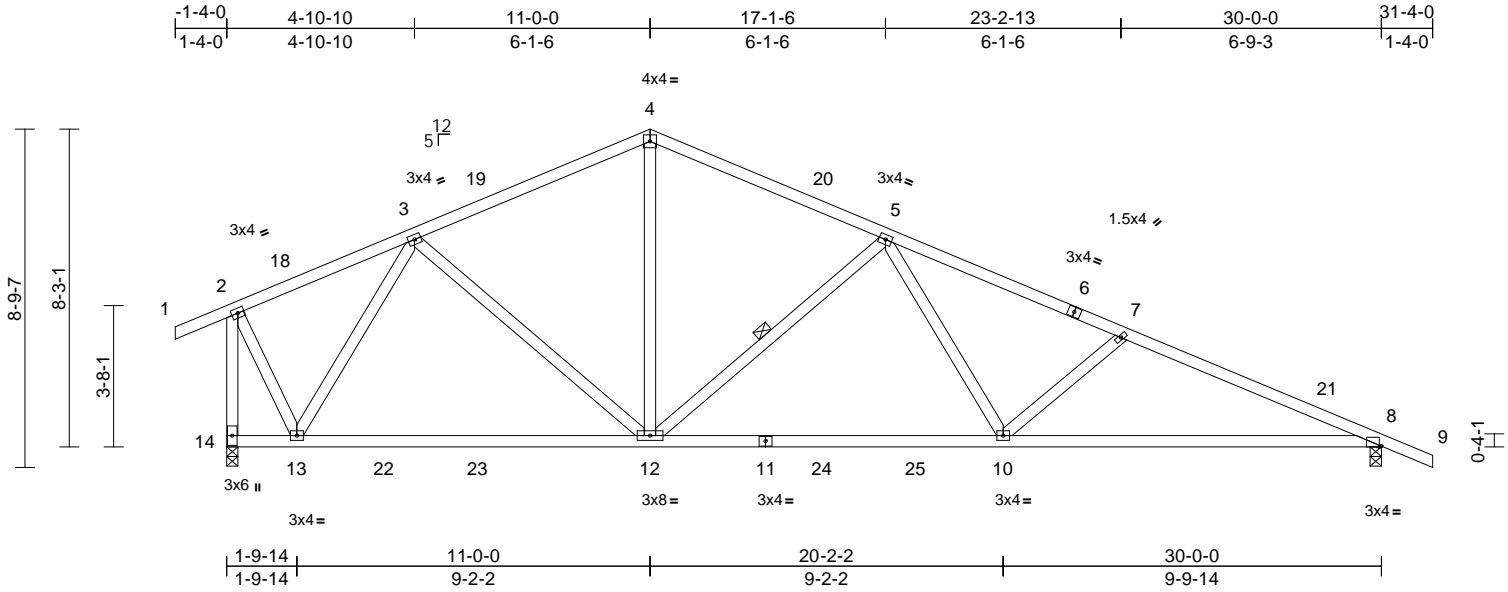
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 260310-04KM	Truss T07	Truss Type Common	Qty 4	Ply 1	Mitch Brown Job Reference (optional)	T40429705
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:45
ID:IU20ff5qkJAi6csyxRFuY2zxQcl-RfC?PsB70Hq3NSgPqnL8w3uITXhGKWRcDoi7J4zJC?f

Page: 1



Loading		Spacing		CSI		DEFL				PLATES		GRIP	
(psf)		2-0-0				in	(loc)	l/defl	L/d				
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.22	10-17	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.39	10-17	>908	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.06	8	n/a	n/a			
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 166 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 or 3-1-5 oc purlins, except end verticals.
BOT CHORD Structural wood sheathing directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-12

REACTIONS (size) 8=0-3-8, 14=0-3-8
Max Horiz 14=271 (LC 10)
Max Uplift 8=365 (LC 12), 14=368 (LC 12)
Max Grav 8=1230 (LC 18), 14=1210 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-574/258, 3-4=-1166/483,
4-5=-1166/502, 5-7=-2112/684,
7-8=-2370/766, 8-9=0/28, 2-14=-1302/480
BOT CHORD 13-14=-159/214, 12-13=-179/953,
10-12=-377/1553, 8-10=-589/2155
WEBS 4-12=-160/604, 5-12=-785/338,
5-10=-89/651, 7-10=-381/232, 3-12=-21/320,
3-13=-774/346, 2-13=-236/1075

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 3x4 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 = 7.0psf.
 - All bearings are assumed to be SP No.2 .
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 14 and 365 lb uplift at joint 8.
- LOAD CASE(S)** Standard


NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft;
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Zone3 6-8-0 to 9-8-0,
Zone1 9-8-0 to 19-0-0, Zone2 19-0-0 to 23-2-15, Zone1
23-2-15 to 39-4-0 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

This item has been digitally signed and sealed by Lee, Julius, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

March 12,2026

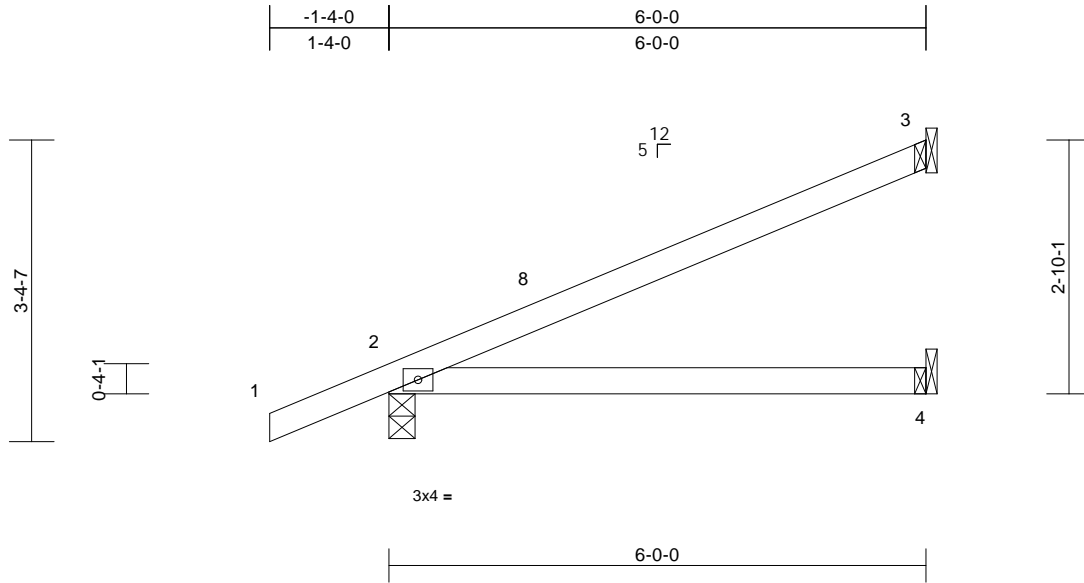
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 260310-04KM	Truss J06	Truss Type Jack-Open	Qty 2	Ply 1	Mitch Brown Job Reference (optional)	T40429706
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:44
ID:p5wFE34ZCiw_tjZq0DQTDzxQcK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	Vert(LL)	0.09	4-7	>836	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	Vert(CT)	-0.10	4-7	>714	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.00	3	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP						Weight: 21 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=122 (LC 12)
Max Uplift 2=-112 (LC 12), 3=-78 (LC 12)
Max Grav 2=282 (LC 1), 3=136 (LC 1), 4=91 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-3=-122/50
BOT CHORD 2-4=-63/101

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 3 and 112 lb uplift at joint 2.
LOAD CASE(S) Standard

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 5-11-4 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
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Bearings are assumed to be: , Joint 2 SP No.2 .
 - 6) Refer to girder(s) for truss to truss connections.

This item has been digitally signed and sealed by Lee, Julius, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

March 12,2026

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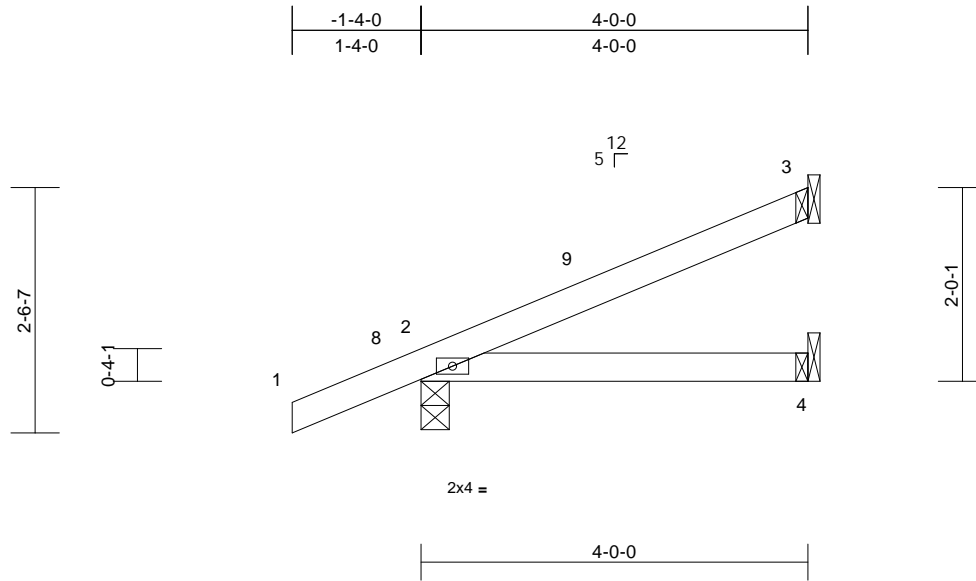
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T40429707
260310-04KM	J05	Jack-Open	2	1	Job Reference (optional)	

Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:44
 ID:p5wFE34ZCiw_tIjZq0DQTDzxQcK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:23.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	-0.02	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 15 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
 BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 3= Mechanical, 4= Mechanical
 Max Horiz 2=92 (LC 12)
 Max Uplift 2=-103 (LC 12), 3=-47 (LC 12)
 Max Grav 2=218 (LC 1), 3=85 (LC 1), 4=59 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/28, 2-3=-112/33
 BOT CHORD 2-4=-31/64

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 3-11-4 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
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 3 and 103 lb uplift at joint 2.

LOAD CASE(S) Standard

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

March 12,2026

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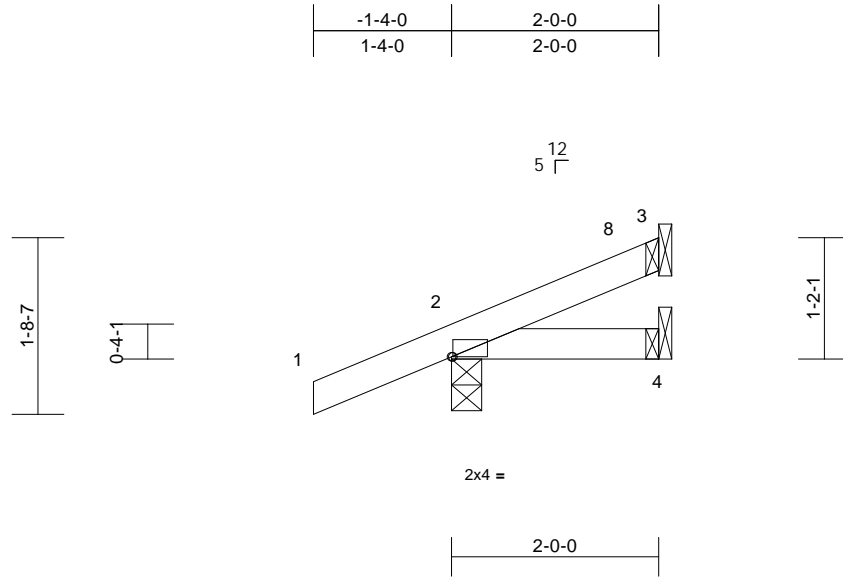
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T40429708
260310-04KM	J04	Jack-Open	2	1	Job Reference (optional)	

Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:44
 ID:p5wFE34ZCiw_tIjZq0DQTdzxQcK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:22.2

Plate Offsets (X, Y): [2:0-0-2,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)	0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 9 lb	FT = 20%

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
 BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
 Max Horiz 2=62 (LC 12)
 Max Uplift 2=-102 (LC 12), 3=-13 (LC 12)
 Max Grav 2=164 (LC 1), 3=33 (LC 17), 4=26 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/28, 2-3=-102/26
 BOT CHORD 2-4=-27/83


7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 2 and 13 lb uplift at joint 3.
LOAD CASE(S) Standard

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 1-11-14 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
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Bearings are assumed to be: , Joint 2 SP No.2 .
 - 6) Refer to girder(s) for truss to truss connections.

This item has been digitally signed and sealed by Lee, Julius, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

March 12,2026

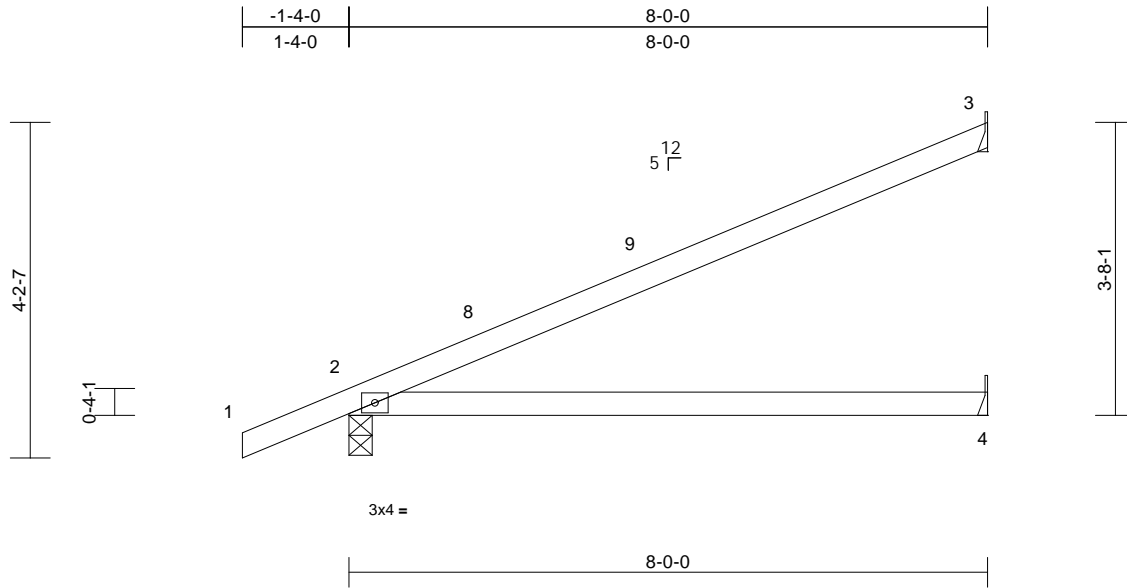
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 260310-04KM	Truss J02	Truss Type Jack-Partial	Qty 5	Ply 1	Mitch Brown Job Reference (optional)	T40429709
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:44
ID:p5wFE34ZCiw_tIjZq0DQTDzxQcK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?F

Page: 1



Scale = 1:28.9

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	0.83	Vert(LL)	0.22	4-7	>429	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.33	4-7	>290	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 27 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.

BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

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

Max Horiz 2=153 (LC 12)

Max Uplift 2=-124 (LC 12), 3=-109 (LC 12)

Max Grav 2=348 (LC 1), 3=185 (LC 1), 4=123 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/28, 2-3=-131/61

BOT CHORD 2-4=-82/131

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft;
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0,
Zone1 1-8-0 to 7-11-4 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
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 109 lb uplift at joint
3 and 124 lb uplift at joint 2.

LOAD CASE(S) Standard

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digitally signed and
sealed by Lee, Julius, PE
on the date indicated here.
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signature must be verified
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Julius Lee PE No.34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 12,2026

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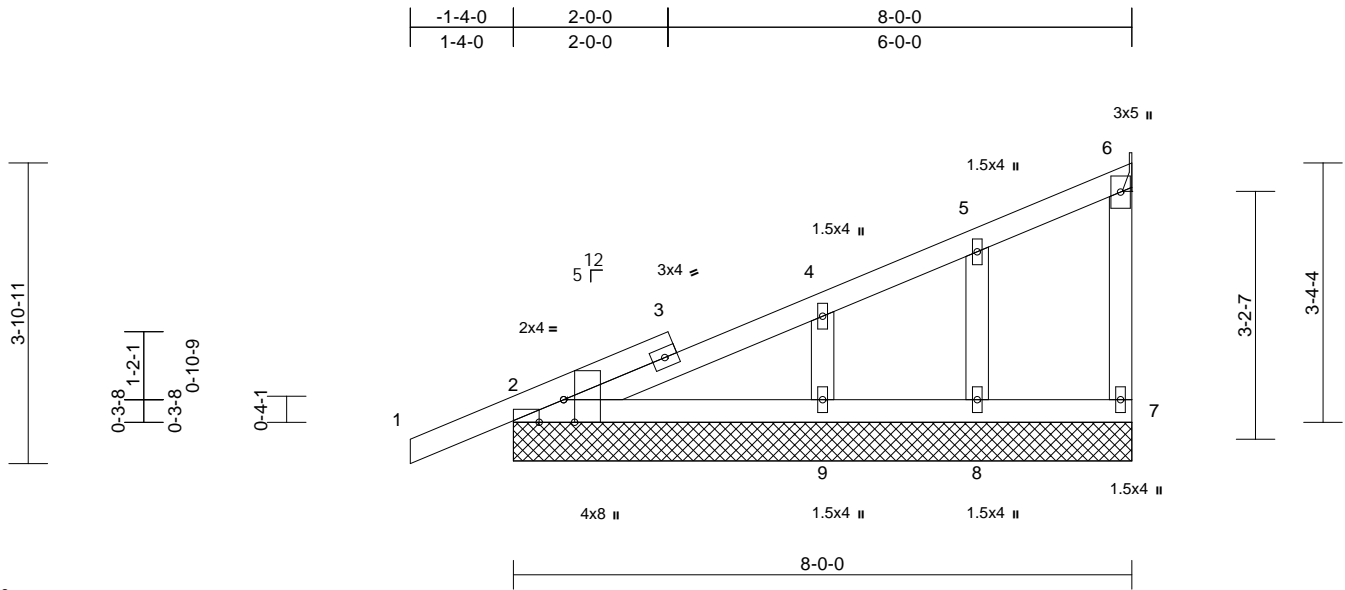
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260310-04KM	Truss J01	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T40429710
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 E Mar 19 2025 Print: 8.730 E Mar 19 2025 MiTek Industries, Inc. Thu Mar 12 11:54:15
ID:p5wFE34ZCiw_tjZq0DQTdzxQcK-8ztVflm1poOVz6k2hOGxy_4cTM_742AdPrI0ptzbrq8

Page: 1



Scale = 1:29.8

Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-3-13,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	0.20	Vert(LL)	0.01	9-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.01	9-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 38 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 or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

REACTIONS

All bearings 8-0-0. except 6= Mechanical
 (lb) - Max Horiz 2=149 (LC 11)
 Max Uplift All uplift 100 (lb) or less at joint(s)
 2, 6, 8, 9
 Max Grav All reactions 250 (lb) or less at joint
 (s) 2, 6, 7, 8, 9

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250
 (lb) or less except when shown.
 TOP CHORD 2-3=-304/147, 3-4=-300/161
 WEBS 4-9=-171/300

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
 Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft;
 B=50ft; L=30ft; eave=2ft; Cat. II; Exp C; 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
- 2) 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.
- 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) Gable studs spaced at 2-0-0 oc.

- 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.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to
 bearing plate capable of withstanding 100 lb uplift at joint
 (s) 2, 8, 9, 6, 2.
 - 9) Gap between inside of top chord bearing and first
 diagonal or vertical web shall not exceed 0.500in.
- LOAD CASE(S)** Standard

This item has been
 digitally signed and
 sealed by Lee, Julius, PE
 on the date indicated here.
 Printed copies of this
 document are not considered
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 on any electronic copies.

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

March 12,2026

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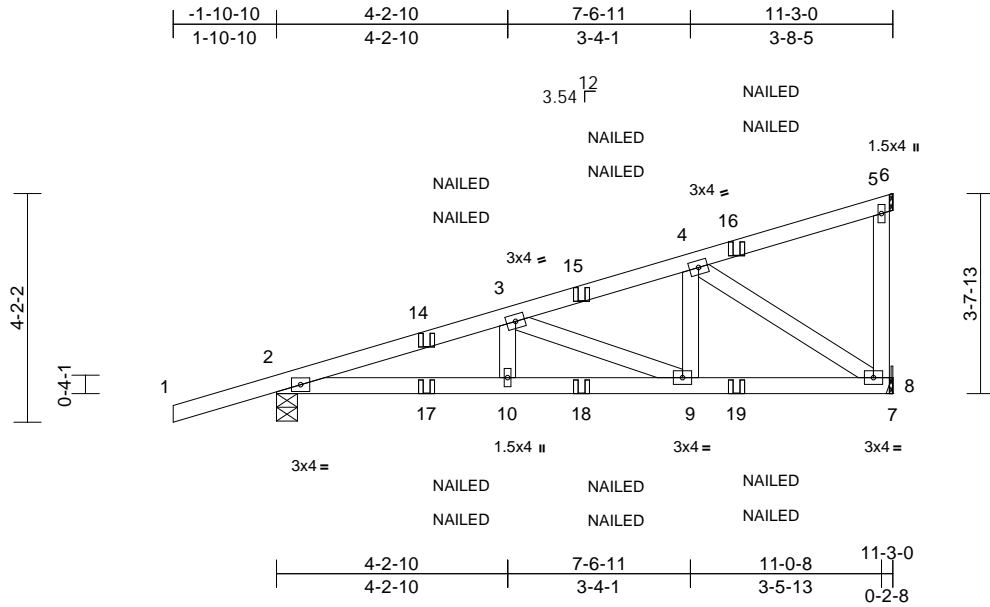
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 260310-04KM	Truss CJ01	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T40429711
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:40
ID:DgcOs56SVdlZkmR8V8m75GzxQcH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDOI7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	-0.03	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.05	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.01	8	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 57 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 or 5-6-0 oc purlins, except end verticals.
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-4-9, 8= Mechanical
Max Horiz 2=157 (LC 7)
Max Uplift 2=-221 (LC 8), 8=-150 (LC 8)
Max Grav 2=558 (LC 1), 8=547 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/29, 2-3=-1108/236, 3-4=-731/193,
4-5=-126/75, 5-6=-1/0, 5-8=-104/55
BOT CHORD 2-10=-274/1001, 9-10=-274/1001,
8-9=-206/646, 7-8=0/0
WEBS 3-10=0/123, 4-9=0/320, 3-9=-381/86,
4-8=-735/215

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 2 and 150 lb uplift at joint 8.
 - "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-5=-54, 5-6=-14, 7-11=-14
Concentrated Loads (lb)
Vert: 15=-18 (F=-9, B=-9), 16=-119 (F=-59, B=-59),
17=-1 (F=0, B=0), 18=-33 (F=-17, B=-17), 19=-76 (F=-38, B=-38)

- NOTES**
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft;
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional); cantilever left and right exposed;
end vertical left and right exposed; 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.
 - 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.
 - Bearings are assumed to be: Joint 2 SP No.2 .
 - Refer to girder(s) for truss to truss connections.

This item has been digitally signed and sealed by Lee, Julius, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

March 12,2026

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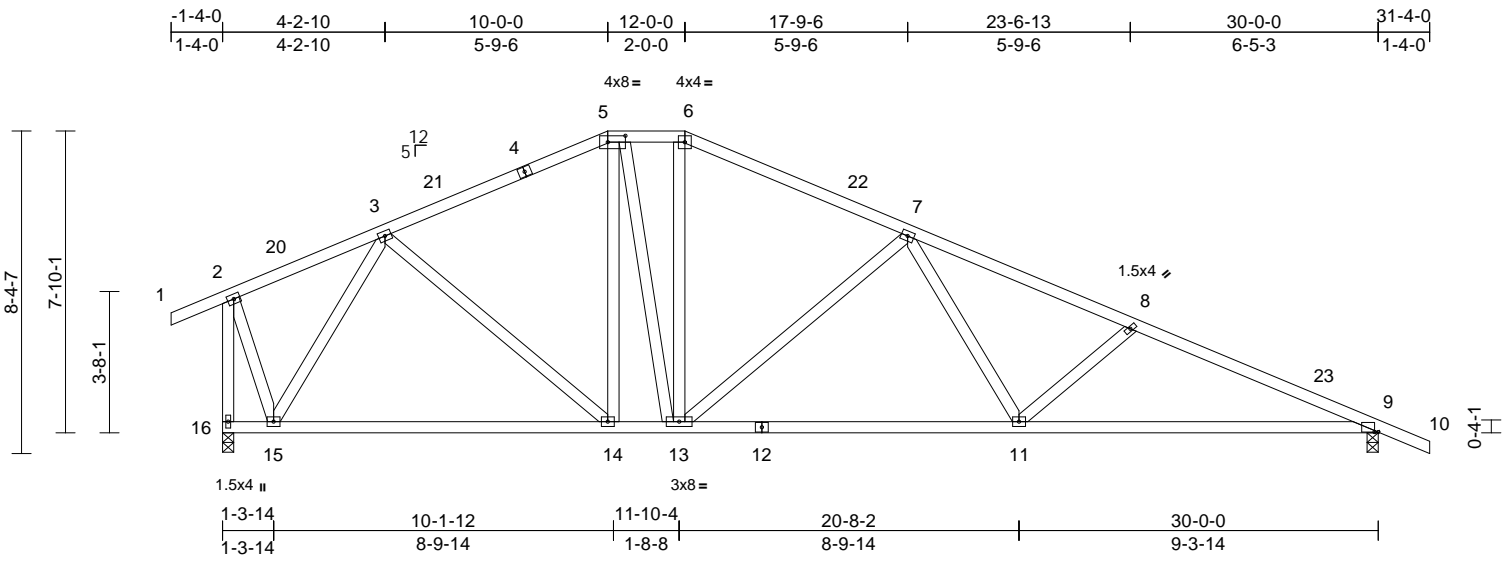
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260310-04KM	Truss H05	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T40429712
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 E Mar 19 2025 Print: 8.730 E Mar 19 2025 MiTek Industries, Inc. Thu Mar 12 11:58:01
ID:OWE7c22hvnXQOr_9ufjr?zxQcN-TqfiViX27r68K89s2GMPB4WXoHdV0cBrJW4pfzbrma

Page: 1



Scale = 1:59.8

Plate Offsets (X, Y): [5'-0"-5'-8"-0"-2'-0"], [9'-0"-1'-2",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	0.40	Vert(LL)	-0.15	11-19	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.30	11-19	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.06	9	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 184 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 or 3-7-2 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-6 max.): 5-6.
BOT CHORD Structural wood sheathing directly applied or 7-7-15 oc bracing.

REACTIONS

(lb/size) 9=1087/0-3-8, 16=1095/0-3-8
Max Horiz 16=262 (LC 10)
Max Uplift 9=365 (LC 12), 16=368 (LC 12)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD

2-20=-354/208, 3-20=-303/220,
3-21=-1043/456, 4-21=-977/462,
4-5=-968/470, 5-6=-965/492,
6-22=-1041/496, 7-22=-1109/479,
7-8=-1858/668, 8-23=-2081/743,
9-23=-2117/726, 2-16=-1140/395

BOT CHORD

14-15=-160/718, 13-14=-146/901,
12-13=-381/1447, 11-12=-381/1447,
9-11=-581/1921

WEBS

3-15=-834/372, 3-14=-44/308,
7-13=-643/310, 7-11=-79/474, 8-11=-351/215,
2-15=-222/897, 5-13=-124/360

NOTES

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 6-8-0 to 9-8-0, Zone1 9-8-0 to 18-0-0, Zone3 18-0-0 to 20-0-0, Zone2 20-0-0 to 24-2-15, Zone1 24-2-15 to 39-4-0 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
- 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) All plates are 3x4 MT20 unless otherwise indicated.
- 6) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 16 and 365 lb uplift at joint 9.
- 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

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

March 12,2026

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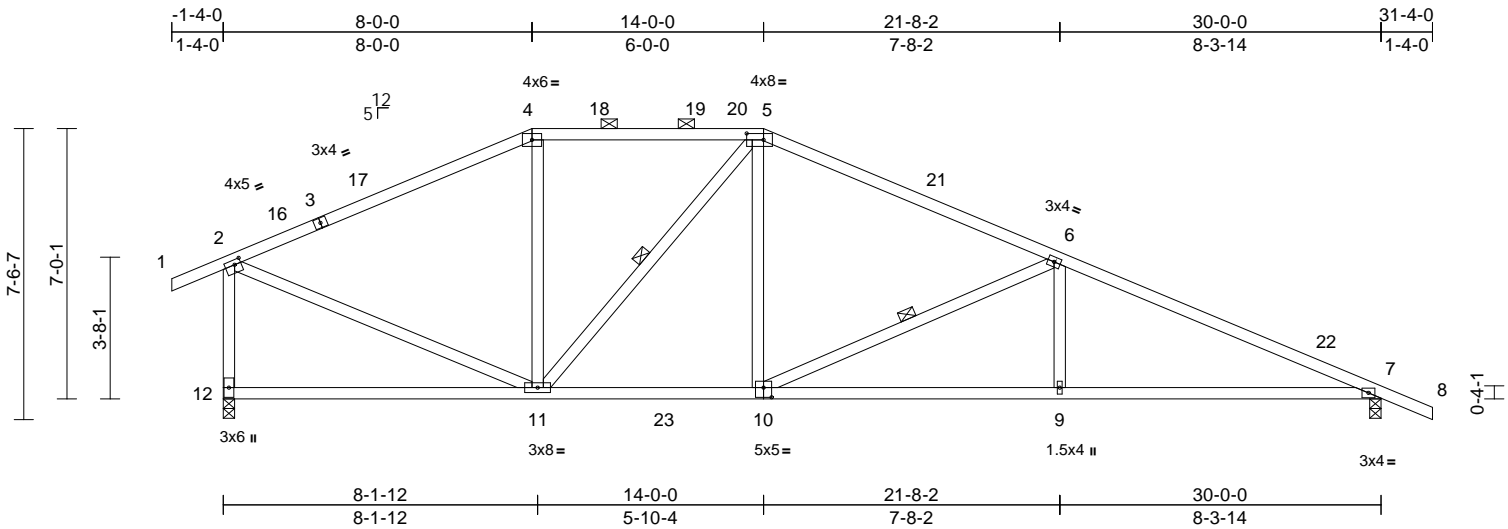
Job 260310-04KM	Truss H04	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T40429713
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:42

Page: 1

ID:OWE7c22hvnXQOr_9ufjr?zxQcN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWwCDoi7J4zJC?f



Scale = 1:59.7

Plate Offsets (X, Y): [2:0-2-0,0-1-8], [5:0-5-4,0-2-0], [10:0-2-8,0-3-0]

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	0.77	Vert(LL)	-0.20	9-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.33	9-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.06	7	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 163 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 or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-5-14 max.): 4-5.
 BOT CHORD Structural wood sheathing directly applied or 7-8-2 oc bracing.

WEBS 1 Row at midpt 6-10, 5-11

REACTIONS (size) 7=0-3-8, 12=0-3-8
 Max Horiz 12=243 (LC 10)
 Max Uplift 7=365 (LC 12), 12=368 (LC 12)
 Max Grav 7=1227 (LC 18), 12=1185 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/31, 2-4=-1163/456, 4-5=-1012/477, 5-6=-1477/545, 6-7=-2335/718, 7-8=0/28, 2-12=-1077/497
 BOT CHORD 11-12=-123/225, 9-11=-555/2108, 7-9=-555/2108
 WEBS 4-11=-84/196, 5-10=-89/593, 6-10=-937/345, 6-9=0/299, 2-11=-307/1073, 5-11=-471/157

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=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 6-8-0 to 9-8-0, Zone1 9-8-0 to 16-0-0, Zone2 16-0-0 to 20-2-15, Zone1 20-2-15 to 22-0-0, Zone2 22-0-0 to 26-2-15, Zone1 26-2-15 to 39-4-0 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

- 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 = 7.0psf.
- 7) All bearings are assumed to be SP No.2.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 12 and 365 lb uplift at joint 7.
- 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

This item has been digitally signed and sealed by Lee, Julius, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

March 12,2026

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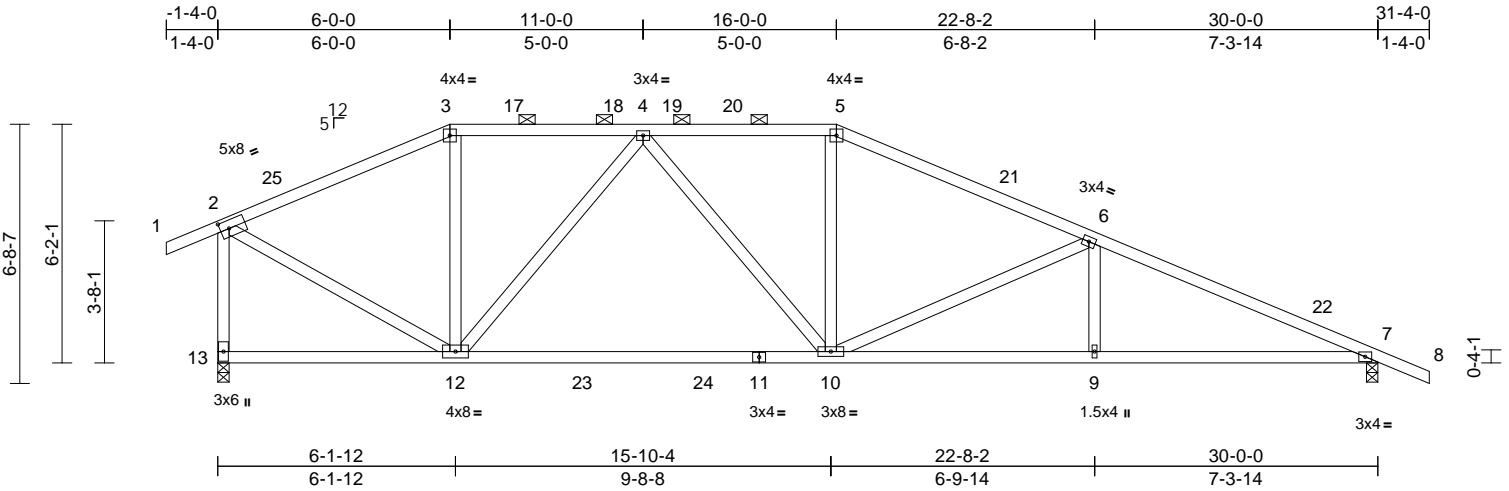
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 260310-04KM	Truss H03	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T40429714
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 E Mar 19 2025 Print: 8.730 E Mar 19 2025 MiTek Industries, Inc. Thu Mar 12 11:57:02
ID:OWE7c22hvnXQOr_9ufjr?zxQcN-hUbO7Xp10jgWl49W5NoZldaQqUuqAJAVHdkTEazbV

Page: 1



Scale = 1:59.6
Plate Offsets (X, Y): [2:0-2-12,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	-0.33	10-12	>999	240
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.51	10-12	>708	180
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.06	7	n/a	n/a
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS						
										Weight: 164 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 or 3-4-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-13 max.): 3-5.
BOT CHORD Structural wood sheathing directly applied or 7-7-5 oc bracing.

REACTIONS (lb/size) 7=1087/0-3-8, 13=1095/0-3-8
Max Horiz 13=225 (LC 10)
Max Uplift 7=365 (LC 12), 13=368 (LC 12)
Max Grav 7=1229 (LC 18), 13=1193 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-17=-975/428, 17-18=-975/428, 4-18=-975/428, 4-19=-1513/571, 19-20=-1513/571, 5-20=-1513/571, 5-21=-1621/577, 6-21=-1687/557, 6-22=-2361/734, 7-22=-2394/714, 2-13=-1142/482, 2-25=-1098/400, 3-25=-1045/417
BOT CHORD 12-23=-303/1349, 23-24=-303/1349, 11-24=-303/1349, 10-11=-303/1349, 9-10=-581/2169, 7-9=-581/2169
WEBS 4-12=-600/254, 4-10=-36/291, 5-10=-41/383, 6-10=-775/313, 2-12=-313/1114

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 6-8-0 to 9-8-0, Zone1 9-8-0 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 24-0-0, Zone2 24-0-0 to 28-2-15, Zone1 28-2-15 to 39-4-0 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
- 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 = 7.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 13 and 365 lb uplift at joint 7.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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

March 12,2026

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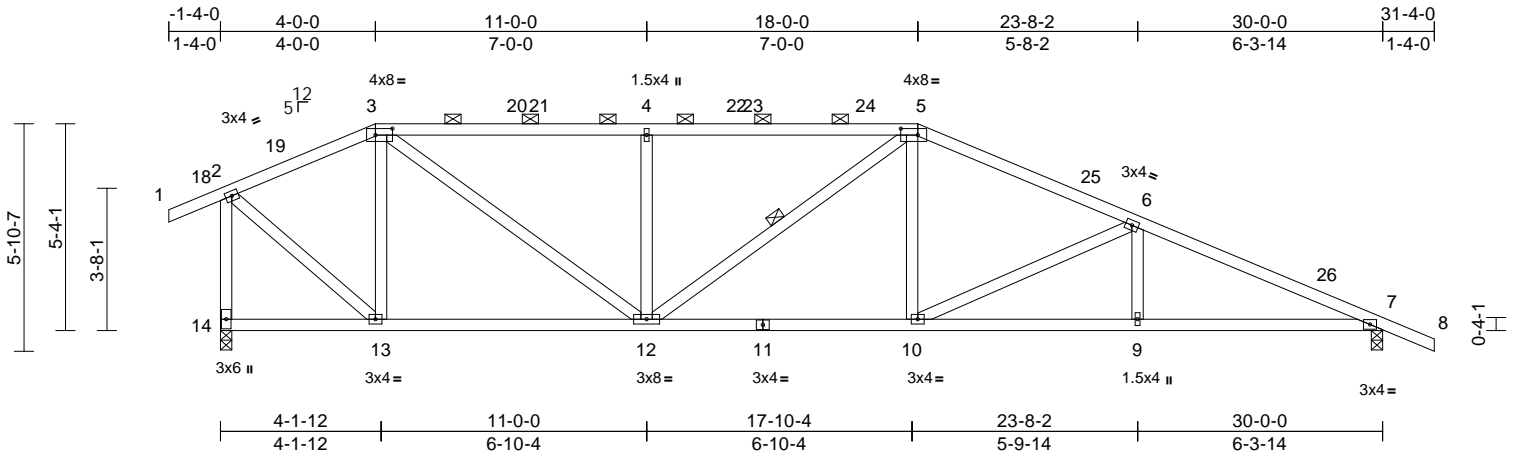
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260310-04KM	Truss H02	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T40429715
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:42
ID:wKggOi138TPZOHPobA8UJnzxQcO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:59.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.11	10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.20	10-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.06	7	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 166 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 or 3-8-5 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-4 max.): 3-5.
BOT CHORD Structural wood sheathing directly applied or 7-6-12 oc bracing.
WEBS 1 Row at midpt 5-12

REACTIONS

(size) 7=0-3-8, 14=0-3-8
Max Horiz 14=207 (LC 10)
Max Uplift 7=365 (LC 12), 14=368 (LC 12)
Max Grav 7=1087 (LC 1), 14=1095 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=803/366, 3-4=1444/616, 4-5=1444/616, 5-6=1639/623, 6-7=2165/741, 7-8=0/28, 2-14=1076/476
BOT CHORD 13-14=105/173, 12-13=127/690, 10-12=376/1462, 9-10=600/1951, 7-9=600/1951
WEBS 3-13=517/265, 3-12=346/947, 4-12=438/250, 5-12=72/148, 5-10=55/375, 6-10=549/258, 6-9=0/206, 2-13=325/923

NOTES

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 6-8-0 to 9-8-0, Zone1 9-8-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 26-0-0, Zone2 26-0-0 to 30-2-15, Zone1 30-2-15 to 39-4-0 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
- 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.
- 7) All bearings are assumed to be SP No.2.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 14 and 365 lb uplift at joint 7.
- 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

This item has been digitally signed and sealed by Lee, Julius, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

March 12,2026

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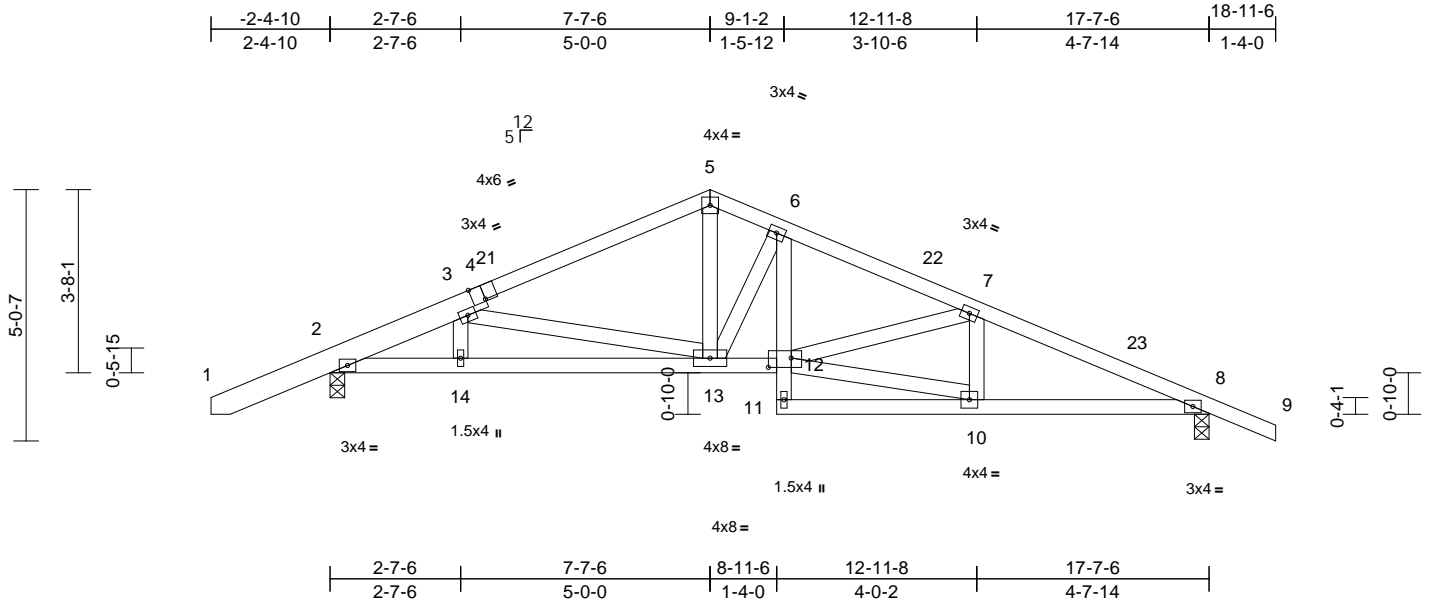
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260310-04KM	Truss T06	Truss Type Roof Special	Qty 4	Ply 1	Mitch Brown Job Reference (optional)	T40429716
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:45
ID:zSIVcaszuM?qjBKdyW_m6Rzc0HX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJc?f

Page: 1



Scale = 1:46.2
Plate Offsets (X, Y): [4:0-3-0,Edge], [12:0-5-8,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.04	12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.08	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.03	8	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 102 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 4-1:2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-4-2 oc purlins.
BOT CHORD Structural wood sheathing directly applied or 9-4-6 oc bracing.

REACTIONS (size) 2=0-3-8, 8=0-3-8
Max Horiz 2=100 (LC 11)
Max Uplift 2=-284 (LC 12), 8=-238 (LC 12)
Max Grav 2=722 (LC 1), 8=666 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-1156/533, 3-5=-887/401, 5-6=-851/431, 6-7=-1041/473, 7-8=-1174/506, 8-9=0/28
BOT CHORD 2-14=-386/1041, 13-14=-386/1041, 12-13=-273/920, 11-12=0/61, 6-12=-91/227, 10-11=-29/111, 8-10=-395/1050
WEBS 7-12=-179/122, 5-13=-191/459, 6-13=-333/205, 7-10=-146/115, 10-12=-375/961, 3-13=-318/224, 3-14=0/122

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 .
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 284 lb uplift at joint 2 and 238 lb uplift at joint 8.
- LOAD CASE(S)** Standard


NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-2-5 to 3-1-0, Zone1 3-1-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 21-4-0 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

This item has been digitally signed and sealed by Lee, Julius, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

March 12,2026

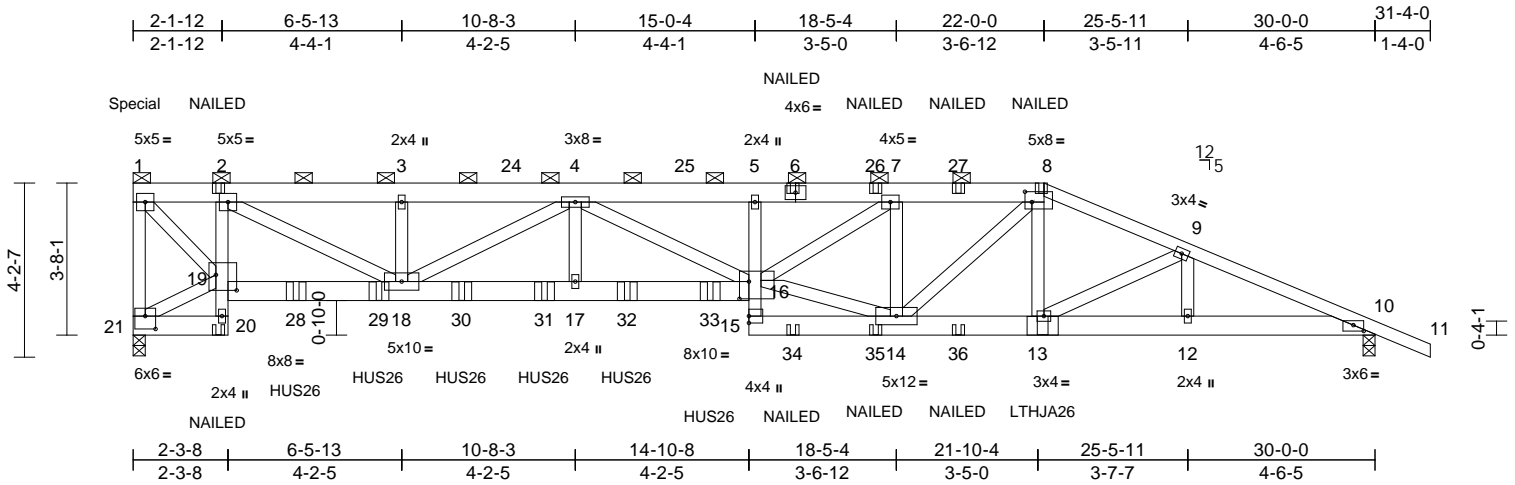
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 260310-04KM	Truss H06	Truss Type Roof Special Girder	Qty 1	Ply 2	Mitch Brown Job Reference (optional)	T40429717
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:42
ID:ZS06G5qSW1UHd4EVrsOvauzxQ3n-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:55.7

Plate Offsets (X, Y): [8:0-2-0,0-3-0], [10:0-3-0,0-1-11], [16:0-2-12,0-5-0], [19:0-6-0,0-4-8], [21:0-3-0,0-3-12]

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	0.36	Vert(LL)	-0.33	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.56	16-17	>637	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.18	10	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS								Weight: 427 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* 8-11:2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 20-2,5-15:2x4 SP No.2, 19-16:2x6 SP No.1
WEBS 2x4 SP No.2
BRACING
TOP CHORD Structural wood sheathing directly applied or 4-7-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-12 max.): 1-8.
BOT CHORD Structural wood sheathing directly applied or 9-7-12 oc bracing.
REACTIONS
(size) 10=0-3-8, 21=0-3-8
Max Horiz 21=-162 (LC 6)
Max Uplift 10=-880 (LC 8), 21=-1104 (LC 4)
Max Grav 10=2836 (LC 1), 21=3704 (LC 1)
FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-21=-3667/1054, 1-2=-3450/1019, 2-3=-8292/2457, 3-4=-8292/2457, 4-5=-11209/3321, 5-7=-11024/3270, 7-8=-7644/2299, 8-9=-6604/1970, 9-10=-6801/1992, 10-11=0/28
BOT CHORD 20-21=-6/35, 19-20=0/110, 2-19=-2872/956, 18-19=-931/3674, 17-18=-3128/11067, 16-17=-3128/11067, 15-16=-9/205, 5-16=-227/147, 14-15=-302/1077, 13-14=-1695/6115, 12-13=-1761/6253, 10-12=-1761/6253
WEBS 19-21=-47/153, 1-19=-1388/4940, 2-18=-1578/5306, 3-18=-171/152, 4-18=-3190/945, 4-17=-317/1251, 4-16=-67/189, 7-14=-3014/1000, 8-14=-612/2129, 8-13=-180/888, 9-13=-200/192, 9-12=-26/89, 14-16=-1897/6754, 7-16=-1187/4125

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1104 lb uplift at joint 21 and 880 lb uplift at joint 10.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 3-11-4 from the left end to 13-11-4 to connect truss(es) to front face of bottom chord.
 - Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 2 ply, Right Hand Hip) or equivalent at 21-11-10 from the left end to connect truss(es) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 43 lb down and 31 lb up at 0-1-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-8=-54, 8-11=-54, 20-21=-14, 16-19=-14, 10-15=-14
Concentrated Loads (lb)

This item has been digitally signed and sealed by Lee, Julius, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

March 12, 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 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.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 260310-04KM	Truss H06	Truss Type Roof Special Girder	Qty 1	Ply 2	Mitch Brown Job Reference (optional)	T40429717
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:42
ID:ZS06G5qSW1UHd4EVrsOvauzxQ3n-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

Vert: 1=-19 (F), 6=-131 (F), 8=-131 (F), 20=-64 (F),
2=-131 (F), 13=-592 (F), 26=-131 (F), 27=-131 (F),
28=-485 (F), 29=-485 (F), 30=-485 (F), 31=-485 (F),
32=-485 (F), 33=-485 (F), 34=-64 (F), 35=-64 (F),
36=-64 (F)

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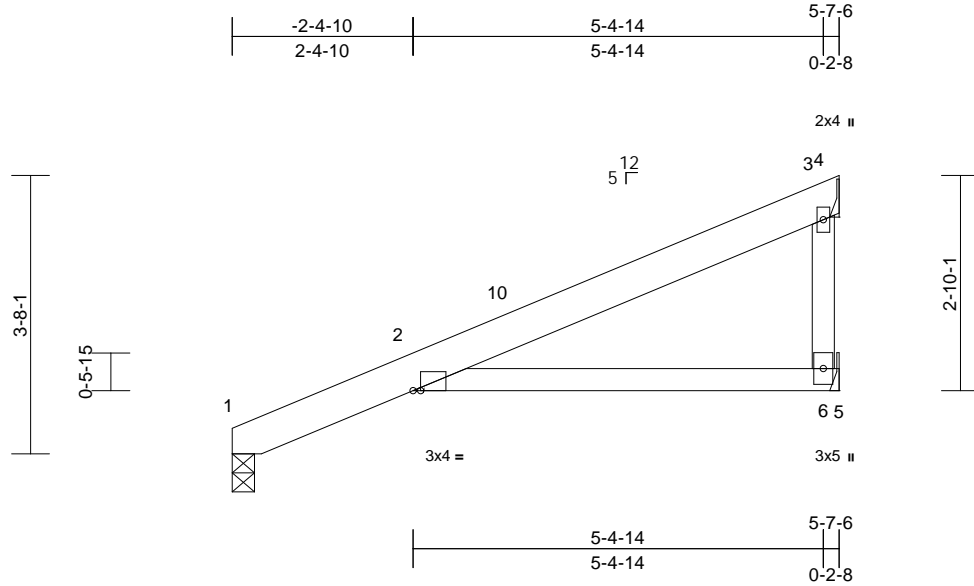
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T40429718
260310-04KM	J03	Jack-Open	6	1	Job Reference (optional)	

Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:44
 ID:4Qu1mcbLLI87uBWZpHfgLnzxD7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?#

Page: 1



Scale = 1:30.4

Plate Offsets (X, Y): [2:0-1-3,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	0.29	Vert(LL)	0.04	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.05	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	1	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 32 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-9-11 oc purlins.
 BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 1=0-3-8, 4= Mechanical, 6= Mechanical
 Max Horiz 4=711 (LC 1), 6=-711 (LC 1)
 Max Uplift 1=-12 (LC 12), 6=-136 (LC 12)
 Max Grav 1=44 (LC 1), 6=499 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-13/42, 2-3=-602/829, 3-4=-427/656
 BOT CHORD 2-6=-717/698, 5-6=0/0
 WEBS 3-6=-458/419

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-0-9 to 1-10-11, Zone1 1-10-11 to 6-8-15 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
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 1 SP No.2 .

- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1 and 136 lb uplift at joint 6.

LOAD CASE(S) Standard

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

March 12,2026

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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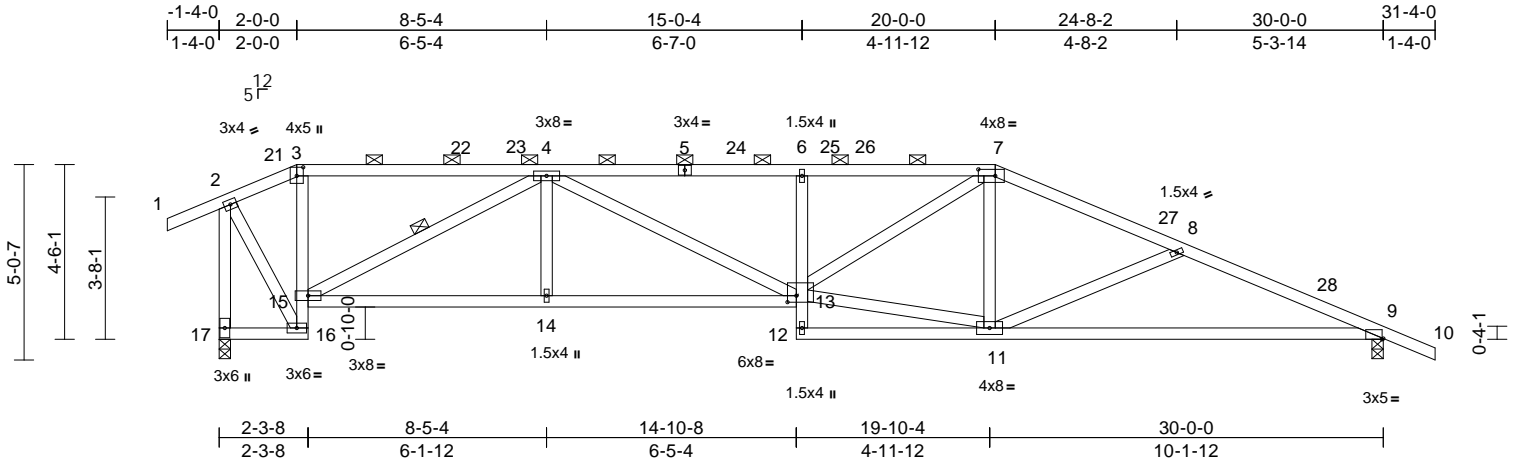
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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 260310-04KM	Truss H01	Truss Type Hip	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T40429719
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:42
ID:og2X1udw4JfPs9ozRLgGJzxQOj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC7f

Page: 1



Scale = 1:59.4

Plate Offsets (X, Y): [3:0-2-11,0-2-0], [7:0-5-4,0-2-0], [9:0-0-6,Edge], [13:0-2-12,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.22	11-20	>999	240
TCDL	7.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.42	11-20	>856	180
BCLL	0.0*	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.15	9	n/a	n/a
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS						
										Weight: 171 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 or 3-8-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-15 max.): 3-7.
 - BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing.
 - WEBS 1 Row at midpt 4-15
- REACTIONS**
- (size) 9=0-3-8, 17=0-3-8
 - Max Horiz 17=-188 (LC 10)
 - Max Uplift 9=-365 (LC 12), 17=-368 (LC 12)
 - Max Grav 9=1087 (LC 1), 17=1095 (LC 1)
- FORCES**
- (lb) - Maximum Compression/Maximum Tension
 - TOP CHORD 1-2=0/31, 2-3=-532/279, 3-4=-556/280, 4-6=-2273/851, 6-7=-2239/843, 7-8=-1819/653, 8-9=-2165/782, 9-10=0/28, 2-17=-1148/460
 - BOT CHORD 16-17=-108/174, 15-16=-709/292, 3-15=-10/114, 14-15=-498/1864, 13-14=-498/1864, 12-13=0/45, 6-13=-327/191, 11-12=-58/131, 9-11=-646/1976
 - WEBS 4-15=-1486/516, 4-14=0/259, 4-13=-181/462, 11-13=-378/1516, 7-11=-39/176, 8-11=-383/246, 2-16=-309/914, 7-13=-254/782

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 6-8-0 to 9-8-0, Zone1 9-8-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 28-0-0, Zone2 28-0-0 to 32-2-15, Zone1 32-2-15 to 39-4-0 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 17 and 365 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.

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

March 12,2026

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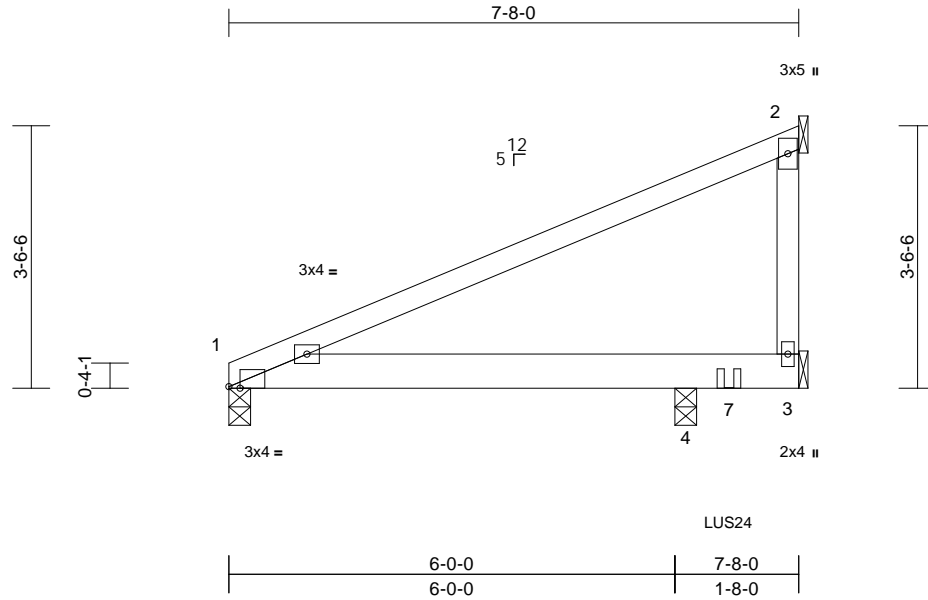
Job 260310-04KM	Truss J08	Truss Type Jack-Open Girder	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T40429720
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:44

Page: 1

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Scale = 1:31

Plate Offsets (X, Y): [1:0-1-13,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	0.57	Vert(LL)	0.03	4-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.04	4-6	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 35 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 1=0-3-8, 2= Mechanical, 3= Mechanical, 4=0-3-8
Max Horiz 1=115 (LC 8)
Max Uplift 1=-37 (LC 21), 2=-93 (LC 21), 3=-80 (LC 17), 4=-173 (LC 8)
Max Grav 1=193 (LC 1), 2=145 (LC 1), 3=142 (LC 21), 4=595 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-165/97
BOT CHORD 1-4=-16/9, 3-4=0/0
WEBS 2-3=0/0

NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft;
B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional); cantilever left and right exposed;
end vertical left and right exposed; 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.
- 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.

- Bearings are assumed to be: , Joint 1 SP No.2 , Joint 4 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 93 lb uplift at joint 2, 80 lb uplift at joint 3 and 173 lb uplift at joint 4.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- Use Simpson Strong-Tie LUS24 (4-10dx1 1/2 Girder, 2-10d Truss, Single Ply Girder) or equivalent at 6-8-12 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25,
Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-54, 1-3=-14
Concentrated Loads (lb)
Vert: 7=-437 (B)

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

March 12,2026

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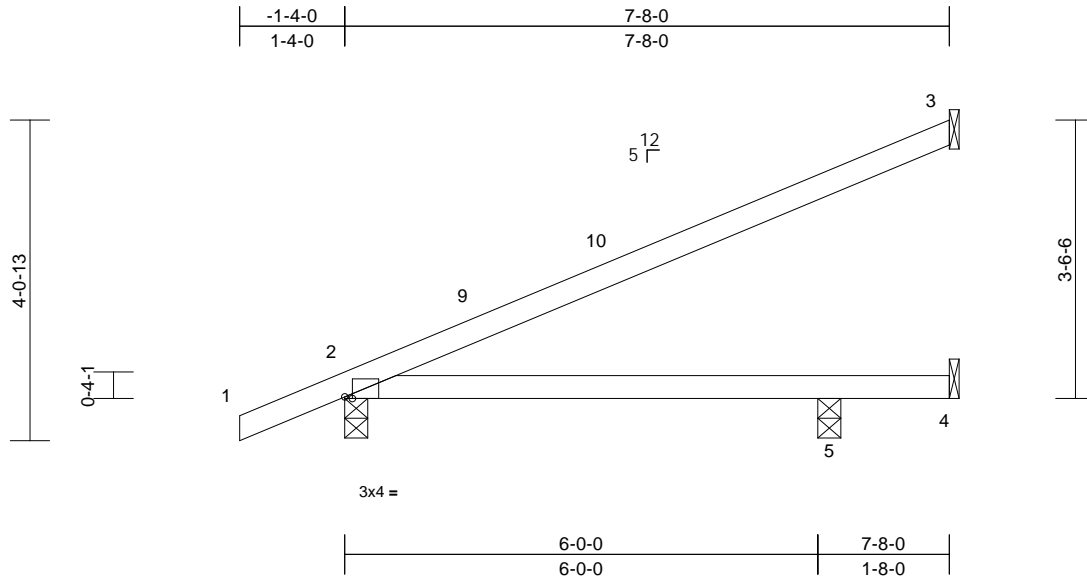
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T40429721
260310-04KM	J07	Jack-Open	3	1	Job Reference (optional)	

Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:44
 ID:p5wFE34ZCiw_tIjZq0DQDTdzxQcK-RfC?PsB70Hq3NSgPqnl8w3uITxBGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29.2

Plate Offsets (X, Y): [2:0-1-2,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	0.72	Vert(LL)	0.10	5-8	>729	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.12	5-8	>612	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 26 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 3= Mechanical, 4= Mechanical, 5=0-3-8
 Max Horiz 2=148 (LC 12)
 Max Uplift 2=-115 (LC 12), 3=-102 (LC 12), 4=-98 (LC 1), 5=-34 (LC 12)
 Max Grav 2=293 (LC 1), 3=165 (LC 1), 4=35 (LC 12), 5=250 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/28, 2-3=-146/55
 BOT CHORD 2-5=-69/109, 4-5=0/0

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 7-7-4 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
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 5) Bearings are assumed to be: , Joint 2 SP No.2 , Joint 5 SP No.2 .
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 3, 115 lb uplift at joint 2, 98 lb uplift at joint 4 and 34 lb uplift at joint 5.
- LOAD CASE(S)** Standard

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

March 12,2026

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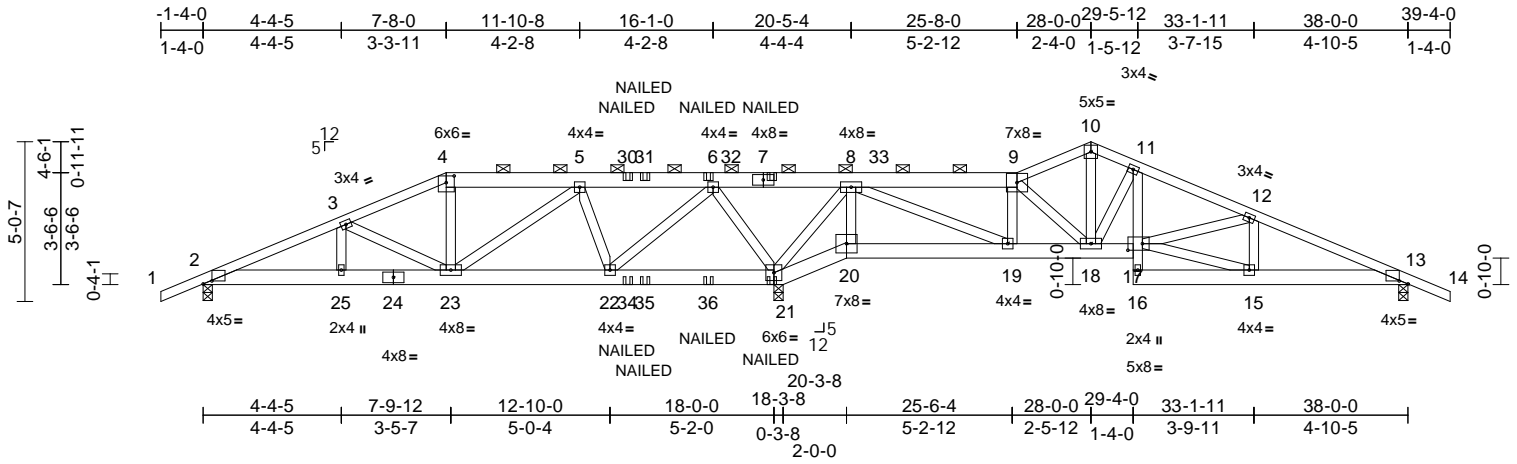
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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 260310-04KM	Truss T05	Truss Type Roof Special Girder	Qty 1	Ply 2	Mitch Brown Job Reference (optional)	T40429722
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:44
ID:dFHUW979KtYg8BdAJAHKqjuZQcE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:72.7

Plate Offsets (X, Y): [2:0-3-5,0-1-2], [4:0-3-0,0-2-9], [13:0-3-5,0-1-2], [17:0-5-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	0.02	17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.03	17	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.01	13	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 500 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 4-7,7-9:2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-9.
BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 13=0-3-8, 21=0-3-8
Max Horiz 2=-113 (LC 6)
Max Uplift 2=-264 (LC 8), 13=-244 (LC 32), 21=-988 (LC 8)
Max Grav 2=564 (LC 19), 13=580 (LC 23), 21=1920 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-3=-937/406, 3-4=-641/343, 4-5=-563/337, 5-6=-294/389, 6-8=-340/1216, 8-9=-433/286, 9-10=-573/288, 10-11=-568/296, 11-12=-765/324, 12-13=-965/347, 13-14=0/28
BOT CHORD 2-25=-299/880, 23-25=-299/880, 22-23=-319/408, 21-22=-669/381, 20-21=-801/426, 19-20=-732/378, 18-19=-148/457, 17-18=-164/692, 15-16=-9/40, 13-15=-239/859
WEBS 3-25=0/132, 3-23=-332/126, 4-23=-69/123, 5-23=-257/448, 5-22=-581/176, 6-22=-422/894, 6-21=-1294/705, 8-21=-799/239, 8-20=-219/192, 8-19=-335/1179, 9-19=-441/186, 12-15=-88/82, 16-17=0/55, 11-17=-58/264, 10-18=-180/332, 9-18=-68/162, 11-18=-385/144, 15-17=-235/839, 12-17=-238/115

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft; B=50ft; L=38ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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.
- All bearings are assumed to be SP No.2 .
- Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 264 lb uplift at joint 2, 988 lb uplift at joint 21 and 244 lb uplift at joint 13.

- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-54, 4-9=-54, 9-10=-54, 10-14=-54, 2-21=-14, 20-21=-14, 17-20=-14, 13-16=-14
Concentrated Loads (lb)
Vert: 7=-111 (F), 21=55 (F), 6=-111 (F), 30=-91 (F), 31=-111 (F), 34=-27 (F), 35=55 (F), 36=55 (F)

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

March 12, 2026

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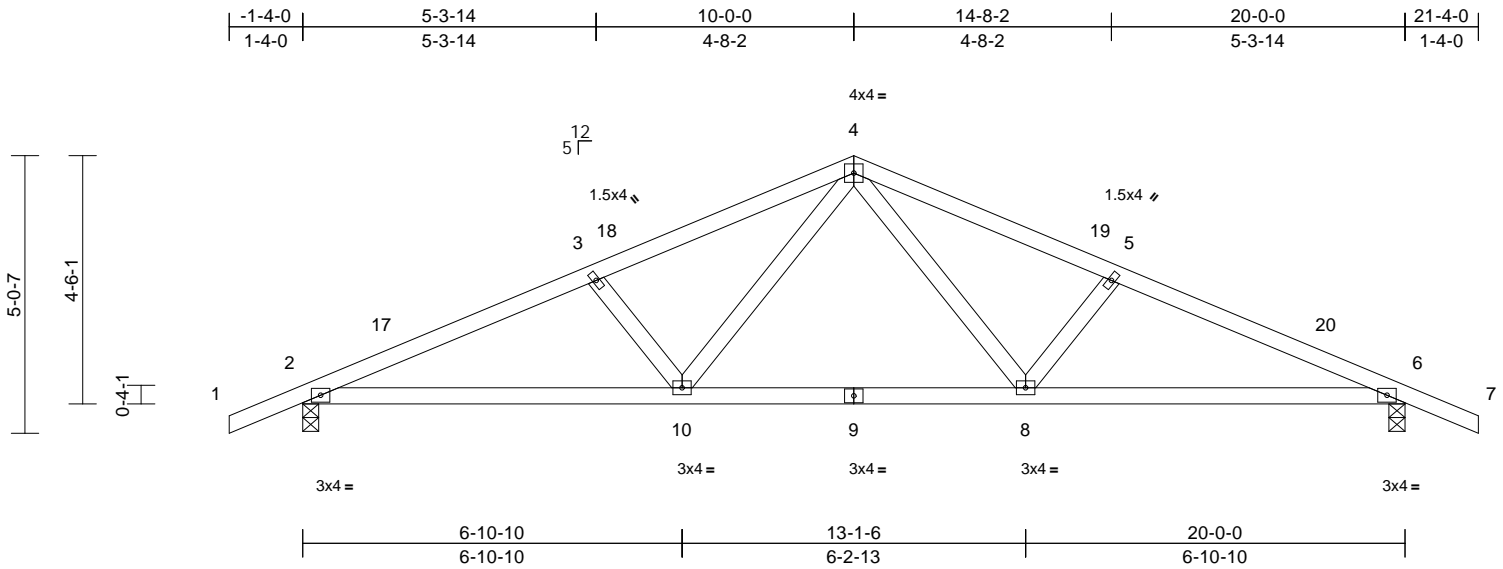
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260310-04KM	Truss T03	Truss Type Common	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T40429723
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:44
ID:HIUdRP5Cz2?RUSHIOk0f0rzxQcJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC?F

Page: 1



Scale = 1:41.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	-0.06	8-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.11	8-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.03	6	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 89 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 or 4-11-1 oc purlins.
BOT CHORD Structural wood sheathing directly applied or 8-7-5 oc bracing.

REACTIONS

(size) 2=0-3-8, 6=0-3-8
Max Horiz 2=-104 (LC 10)
Max Uplift 2=-264 (LC 12), 6=-264 (LC 12)
Max Grav 2=752 (LC 1), 6=752 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-3=-1339/586, 3-4=-1186/546, 4-5=-1186/546, 5-6=-1339/586, 6-7=0/28
BOT CHORD 2-10=-447/1209, 8-10=-233/806, 6-8=-468/1209
WEBS 3-10=-285/228, 4-10=-165/409, 4-8=-165/409, 5-8=-285/228

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 21-4-0 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.
- 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 264 lb uplift at joint 2 and 264 lb uplift at joint 6.

LOAD CASE(S) Standard

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

March 12, 2026

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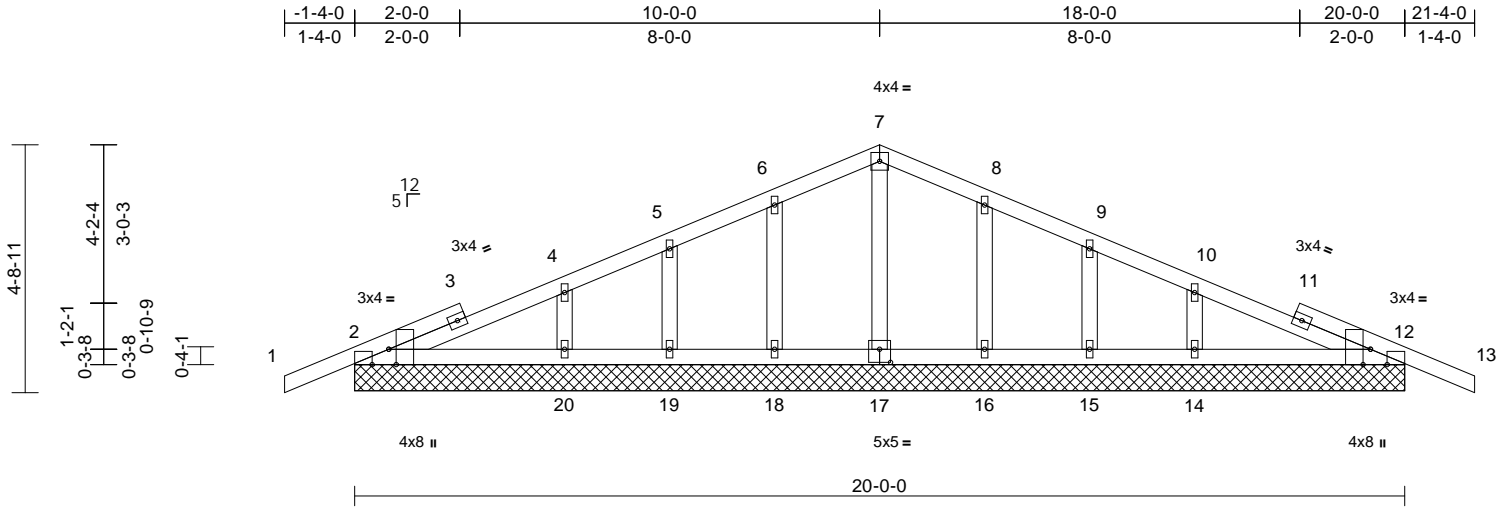
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260310-04KM	Truss GE02	Truss Type Common Supported Gable	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T40429724
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:41
ID:wKggOi138TPZOHPobA8UJnzxQcO-RfC?PsB70Hq3NSgPqnl8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:43.9

Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-3-13,Edge], [12:0-3-8,Edge], [12:0-3-13,Edge], [17:0-2-8,0-3-0]

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	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 94 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 2=20-0-0, 12=20-0-0, 14=20-0-0, 15=20-0-0, 16=20-0-0, 17=20-0-0, 18=20-0-0, 19=20-0-0, 20=20-0-0
Max Horiz 2=-97 (LC 10)
Max Uplift 2=-107 (LC 12), 12=-107 (LC 12), 14=-74 (LC 12), 15=-46 (LC 12), 16=-57 (LC 12), 18=-57 (LC 12), 19=-46 (LC 12), 20=-74 (LC 12)
Max Grav 2=196 (LC 23), 12=196 (LC 24), 14=245 (LC 24), 15=92 (LC 1), 16=156 (LC 24), 17=138 (LC 1), 18=156 (LC 23), 19=92 (LC 1), 20=245 (LC 23)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/28, 2-4=-52/96, 4-5=-41/67, 5-6=-27/99, 6-7=-39/158, 7-8=-39/158, 8-9=-18/99, 9-10=-12/49, 10-12=-48/64, 12-13=0/28
BOT CHORD 2-20=-47/118, 19-20=-47/118, 18-19=-47/118, 16-18=-47/118, 15-16=-47/118, 14-15=-47/118, 12-14=-47/118
WEBS 7-17=-112/0, 6-18=-123/136, 5-19=-84/113, 4-20=-171/178, 8-16=-123/136, 9-15=-84/113, 10-14=-171/178

NOTES

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

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=4.2psf; h=18ft; B=50ft; L=30ft; eave=2ft; Cat. II; Exp C; 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- 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.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 2, 107 lb uplift at joint 12, 57 lb uplift at joint 18, 46 lb uplift at joint 19, 74 lb uplift at joint 20, 57 lb uplift at joint 16, 46 lb uplift at joint 15, 74 lb uplift at joint 14, 107 lb uplift at joint 2 and 107 lb uplift at joint 12.

LOAD CASE(S) Standard

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

March 12,2026

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

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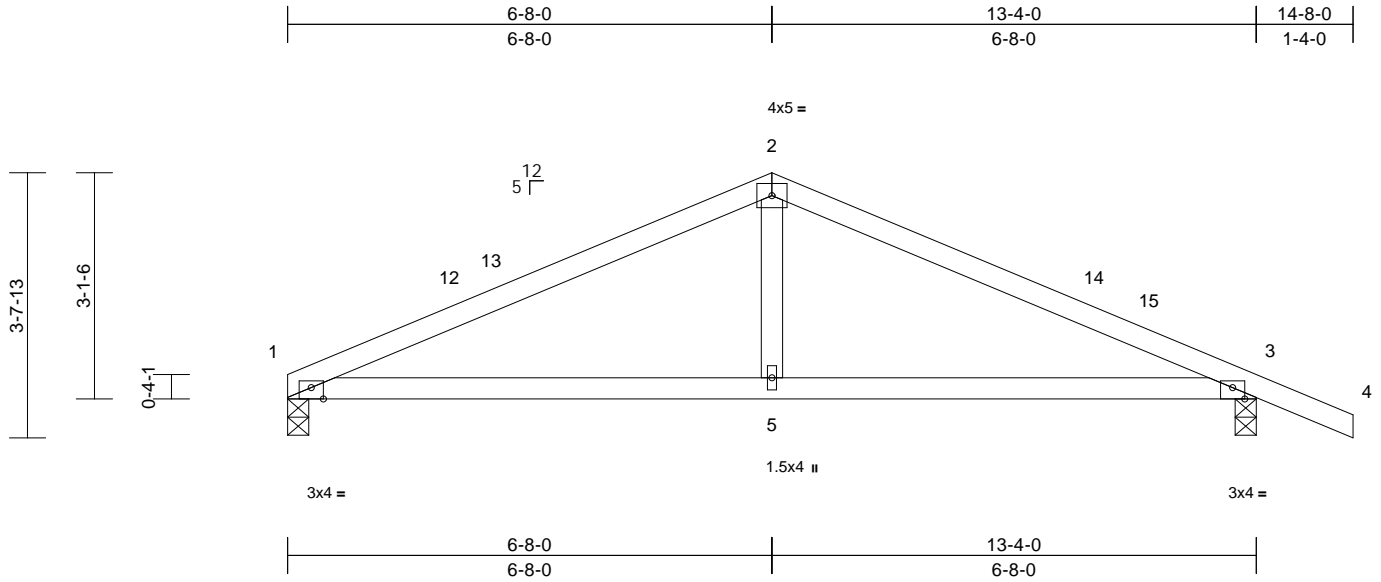
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260310-04KM	Truss T02	Truss Type Common	Qty 5	Ply 1	Mitch Brown Job Reference (optional)	T40429725
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:44
ID:HIUdRP5Cz2rUSHIOkF0rzxQcJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.7

Plate Offsets (X, Y): [1:0-2-0,Edge], [3:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.07	5-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.12	5-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	3	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 48 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 or 6-0-0 oc purlins.
BOT CHORD Structural wood sheathing directly applied or 9-9-4 oc bracing.

REACTIONS

(size) 1=0-3-8, 3=0-3-8
Max Horiz 1=-72 (LC 10)
Max Uplift 1=-130 (LC 12), 3=-201 (LC 12)
Max Grav 1=450 (LC 1), 3=529 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-729/450, 2-3=-730/438, 3-4=0/28
BOT CHORD 1-5=-287/620, 3-5=-287/620
WEBS 2-5=-26/263

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 6-8-0, Zone2 6-8-0 to 10-10-15, Zone1 10-10-15 to 14-8-0 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.
- 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 1 and 201 lb uplift at joint 3.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Lee, Julius, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

March 12,2026

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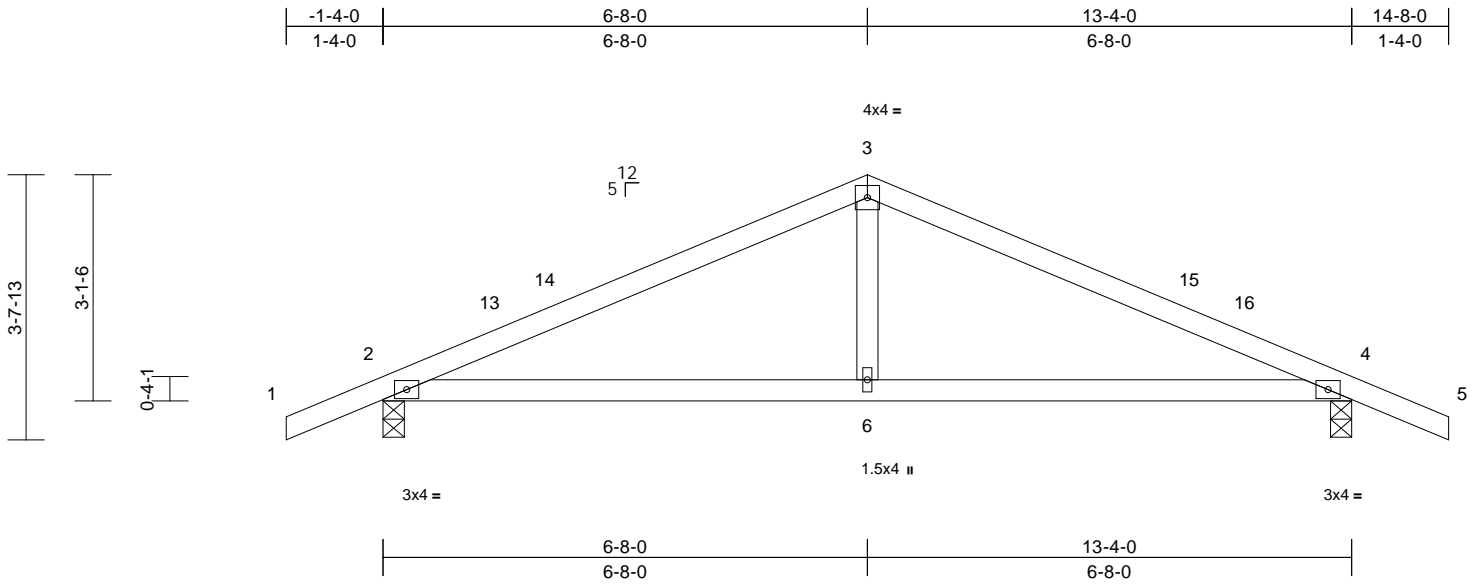
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260310-04KM	Truss T01	Truss Type Common	Qty 4	Ply 1	Mitch Brown Job Reference (optional)	T40429726
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:44
ID:HIUdRP5Cz?2rUSHIOk0rzcQcJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	0.06	6-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.11	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	4	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 50 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 or 6-0-0 oc purlins.
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 4=0-3-8
Max Horiz 2=-74 (LC 10)
Max Uplift 2=-198 (LC 12), 4=-198 (LC 12)
Max Grav 2=525 (LC 1), 4=525 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-3=-718/407, 3-4=-718/407, 4-5=0/28
BOT CHORD 2-6=-240/608, 4-6=-240/608
WEBS 3-6=-6/261

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 6-8-0, Zone2 6-8-0 to 10-10-15, Zone1 10-10-15 to 14-8-0 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.
 - 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.
 - All bearings are assumed to be SP No.2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 2 and 198 lb uplift at joint 4.
- LOAD CASE(S)** Standard

This item has been digitally signed and sealed by Lee, Julius, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

March 12,2026

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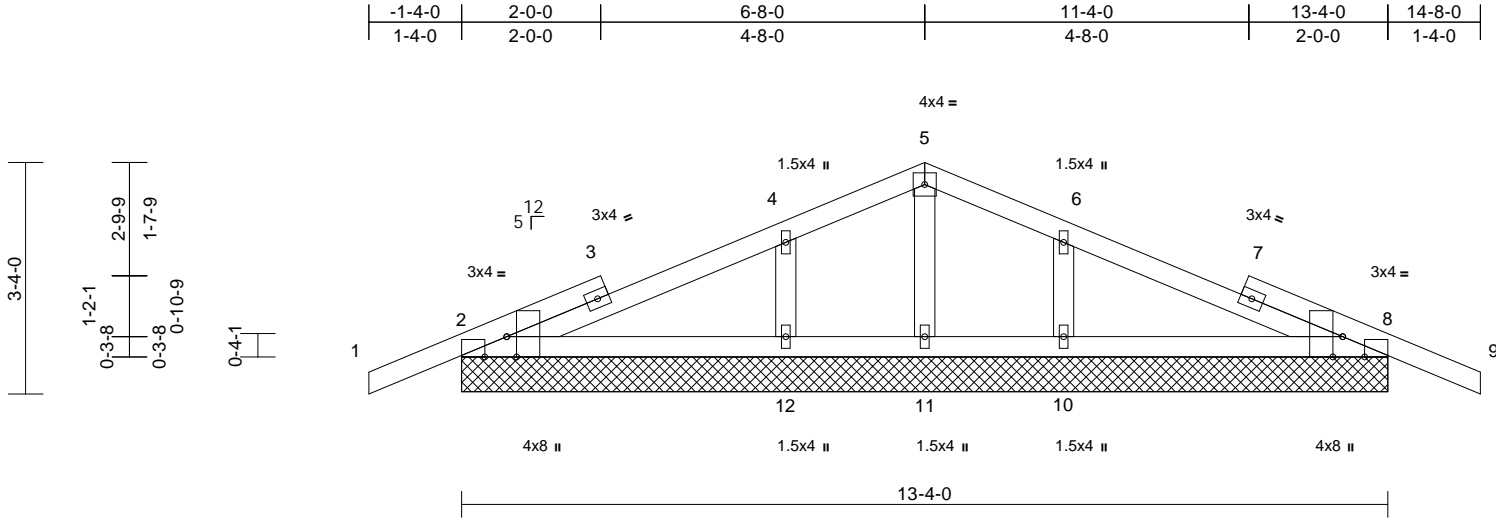
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 260310-04KM	Truss GE01	Truss Type Common Supported Gable	Qty 1	Ply 1	Mitch Brown Job Reference (optional)	T40429727
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Mar 11 12:11:41
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Page: 1



Scale = 1:33.2

Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-3-13,Edge], [8:0-3-8,Edge], [8:0-3-13,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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 58 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 10'-0-0 oc purlins.
BOT CHORD Structural wood sheathing directly applied or 6'-0-0 oc bracing.

REACTIONS

(size) 2=13-4-0, 8=13-4-0, 10=13-4-0, 11=13-4-0, 12=13-4-0
Max Horiz 2=67 (LC 11)
Max Uplift 2=-108 (LC 12), 8=-108 (LC 12), 10=-98 (LC 12), 12=-98 (LC 12)
Max Grav 2=194 (LC 23), 8=194 (LC 24), 10=301 (LC 1), 11=82 (LC 1), 12=301 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/28, 2-4=-93/149, 4-5=0/103, 5-6=0/103, 6-8=-94/145, 8-9=0/28
BOT CHORD 2-12=-105/191, 11-12=-105/191, 10-11=-105/191, 8-10=-105/191

WEBS

5-11=-112/41, 4-12=-208/278, 6-10=-208/278

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=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=30ft; eave=2ft; Cat. II; Exp C; 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 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) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2'-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2 .
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 2, 108 lb uplift at joint 8, 98 lb uplift at joint 12, 98 lb uplift at joint 10, 108 lb uplift at joint 2 and 108 lb uplift at joint 8.

LOAD CASE(S) Standard

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 12,2026

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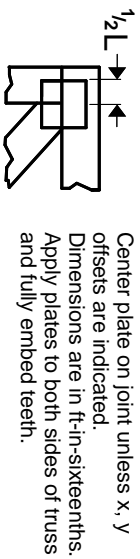
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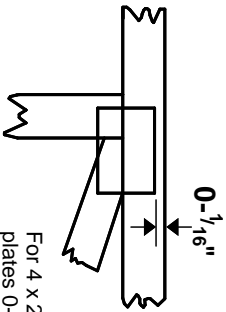
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Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

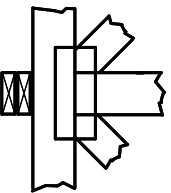
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

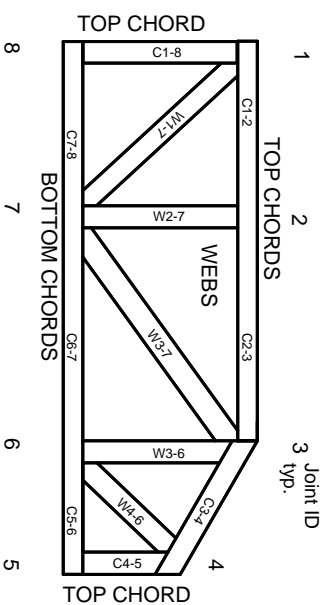


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TFP1: 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



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-1-1988, ESR-2-362, ESR-2-685, ESR-3-282
ESR-4-722, ESL-1-388

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/TFP 1 section 6.3. These truss designs rely on Lumber values established by others.

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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/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 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/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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MITtek Engineering Reference Sheet: Mill-7473 rev. 1/2/2023