



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

RE: 260108-02KM - Mitch Brown

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: Solid Rock Builders Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: 102 SW Canterbury Ct., .
City: Lake City State: FL.

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7
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.

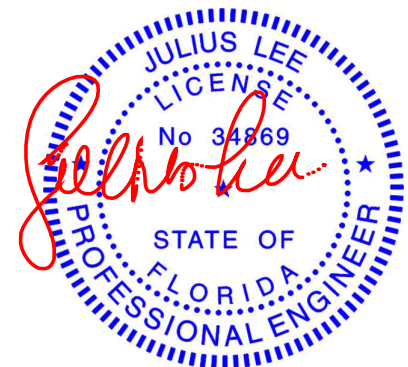
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T39755011	M01	1/9/26	23	T39755033	J07	1/9/26
2	T39755012	H12	1/9/26	24	T39755034	T05	1/9/26
3	T39755013	H11	1/9/26	25	T39755035	T04	1/9/26
4	T39755014	H10	1/9/26	26	T39755036	T03	1/9/26
5	T39755015	H09	1/9/26	27	T39755037	GE02	1/9/26
6	T39755016	H08	1/9/26	28	T39755038	T02	1/9/26
7	T39755017	H07	1/9/26	29	T39755039	T01	1/9/26
8	T39755018	T07	1/9/26	30	T39755040	GE01	1/9/26
9	T39755019	J06	1/9/26				
10	T39755020	J05	1/9/26				
11	T39755021	J04	1/9/26				
12	T39755022	J02	1/9/26				
13	T39755023	J01	1/9/26				
14	T39755024	CJ01	1/9/26				
15	T39755025	H05	1/9/26				
16	T39755026	H04	1/9/26				
17	T39755027	H03	1/9/26				
18	T39755028	H02	1/9/26				
19	T39755029	H06	1/9/26				
20	T39755030	J03	1/9/26				
21	T39755031	H01	1/9/26				
22	T39755032	J08	1/9/26				



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.

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



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

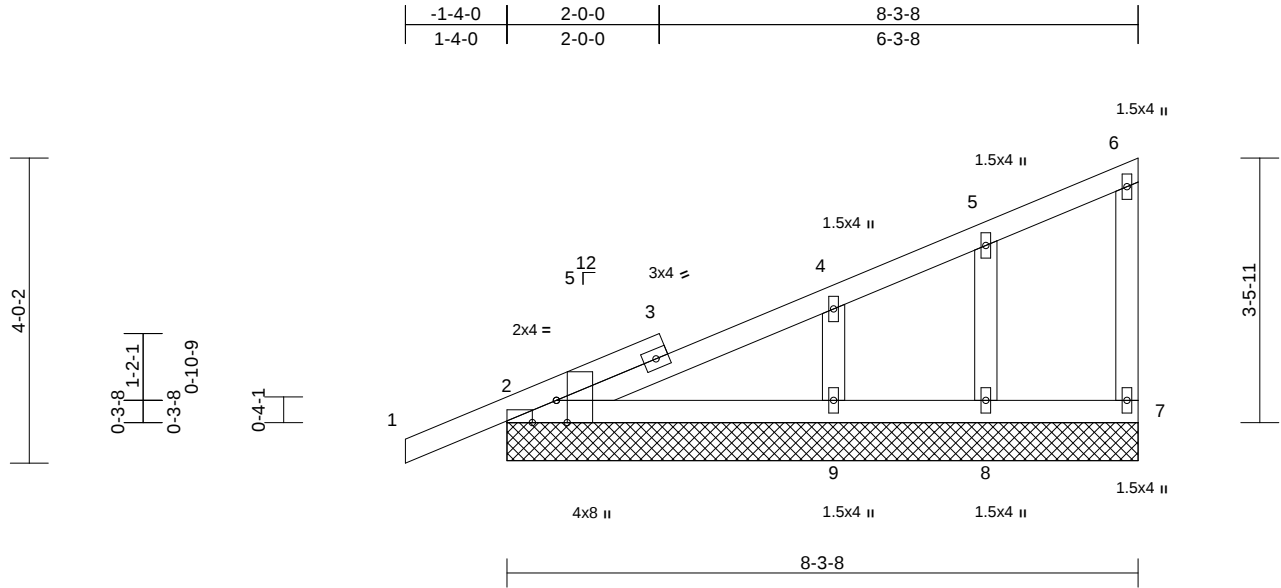
January 9, 2026

Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755011
260108-02KM	M01	Monopitch Supported Gable	1	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. Thu Jan 08 14:42:43
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Page: 1



Scale = 1:30.3

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)	n/a	-	n/a	999	MT20
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	n/a	-	n/a	999	244/190
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" oc purlins, except end verticals.
BOT CHORD	Structural wood sheathing directly applied or 10'-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

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=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 requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2'-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



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

January 9, 2026

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

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

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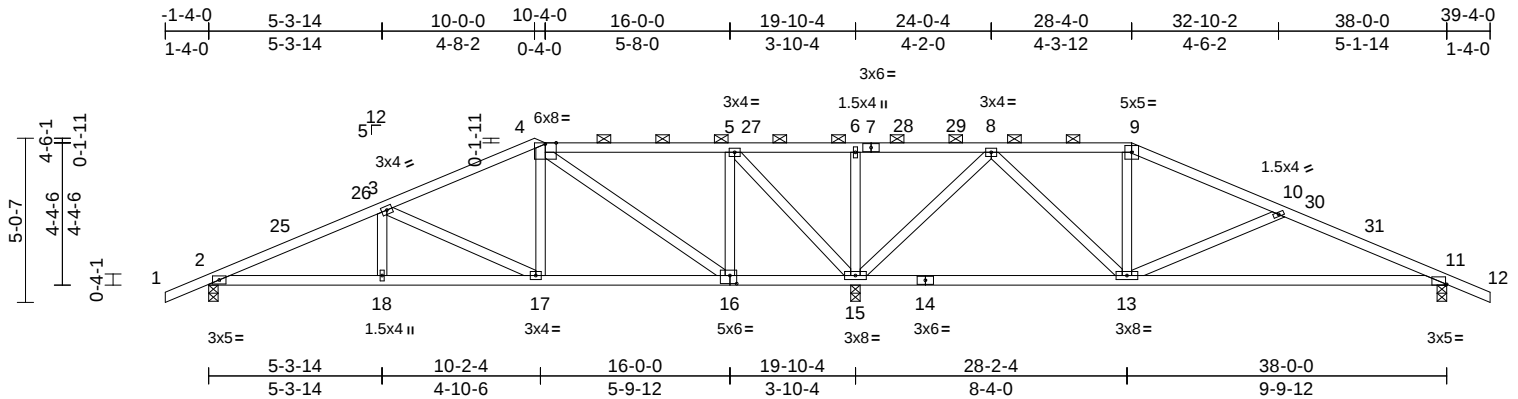
Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755012
260108-02KM	H12	Roof Special	1	1	Job Reference (optional)	

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

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:42:42

Page: 1

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Scale = 1:70.7

Plate Offsets (X, Y): [11:0-0-6,Edge], [16:0-2-8,0-3-0]

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	0.44	Vert(LL)	-0.15	13-24	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.28	13-24	>790	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.02	11	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 195 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 5-8-1 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=-217 (LC 12), 11=-196 (LC 12), 15=-476 (LC 12)
Max Grav 2=608 (LC 23), 11=539 (LC 24), 15=1641 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-3=-999/399, 3-4=-563/244, 4-5=0/117, 5-6=-245/794, 6-8=-245/794, 8-9=-343/186, 9-10=-431/172, 10-11=-785/354, 11-12=0/28
BOT CHORD 2-18=-283/885, 17-18=-283/885, 15-17=-135/466, 13-15=-143/168, 11-13=-261/708
WEBS 3-18=0/171, 3-17=-459/267, 6-15=-192/102, 9-13=-99/103, 10-13=-397/303, 4-17=-64/324, 5-16=-128/435, 4-16=-637/275, 5-15=-990/441, 8-15=-918/424, 8-13=-206/564

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 16-0-0, Zone1 16-0-0 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 217 lb uplift at joint 2, 476 lb uplift at joint 15 and 196 lb uplift at joint 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

January 9,2026

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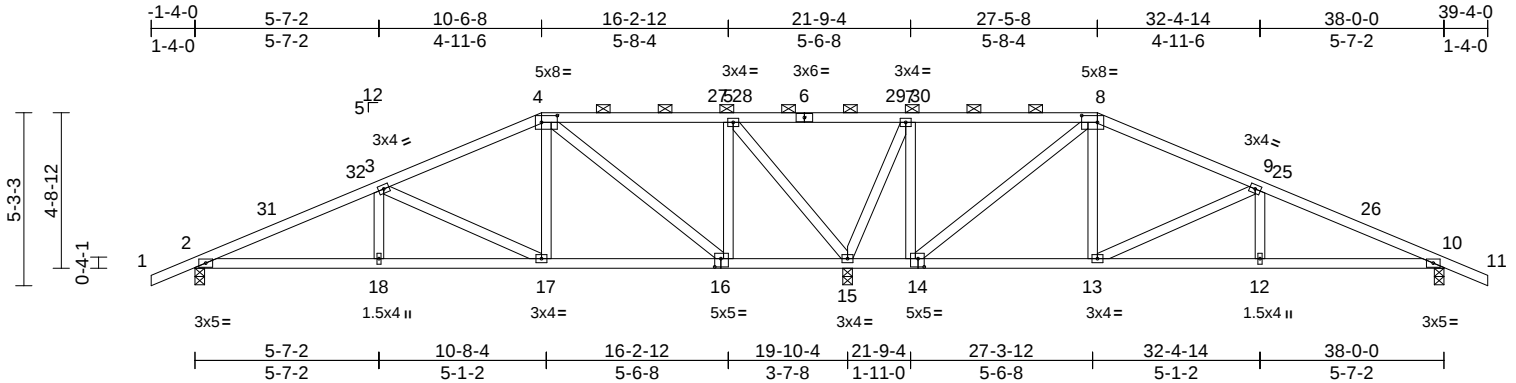
Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755013
260108-02KM	H11	Hip	1	1	Job Reference (optional)	

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

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Page: 1

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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

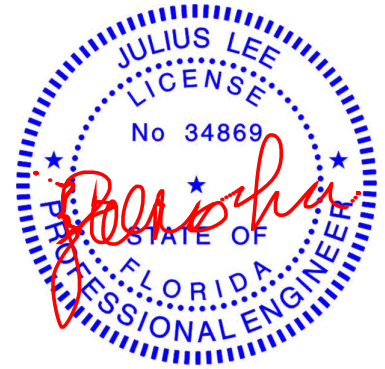
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 8-9=-329/133, 9-10=-801/268, 10-11=0/28, 4-5=0/131, 5-7=-190/786, 7-8=-52/399, 1-2=0/28, 2-3=-978/338, 3-4=-510/202
BOT CHORD 2-18=-232/863, 17-18=-232/863, 15-17=-171/427, 13-15=-426/262, 12-13=-178/700, 10-12=-178/700
WEBS 9-12=0/189, 9-13=-498/247, 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; 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 10-6-8, 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



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

January 9,2026

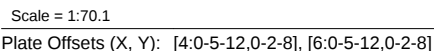
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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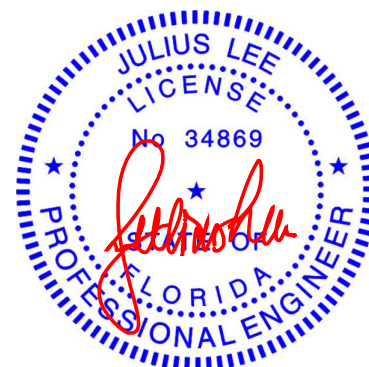
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577, Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:42:42 Page: 1
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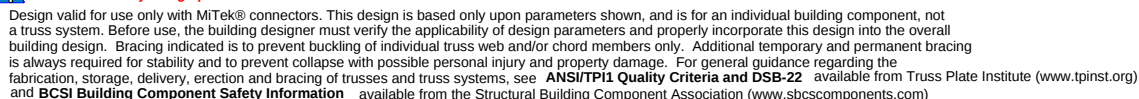


LUMBER		2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=4.2psf; h=18ft; B=50ft; L=38ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 2-5-10, Zone1 2-5-10 to 12-6-8, Zone2 12-6-8 to 17-11-0, Zone1 17-11-0 to 25-5-8, Zone2 25-5-8 to 30-10-0, 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
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.2	
BRACING		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.
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.	4) Provide adequate drainage to prevent water ponding.
BOT CHORD	Structural wood sheathing directly applied or 6-0-0 oc bracing.	5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
REACTIONS (size) 2=0-3-8, 8=0-3-8, 14=0-3-8		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.
	Max Horiz 2=-138 (LC 10)	7) All bearings are assumed to be SP No.2 .
	Max Uplift 2=-163 (LC 12), 8=-236 (LC 12), 14=-491 (LC 12)	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.
	Max Grav 2=440 (LC 23), 8=676 (LC 24), 14=1706 (LC 1)	9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
FORCES (lb) - Maximum Compression/Maximum Tension		LOAD CASE(S) Standard
TOP CHORD	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	

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



January 9, 2026



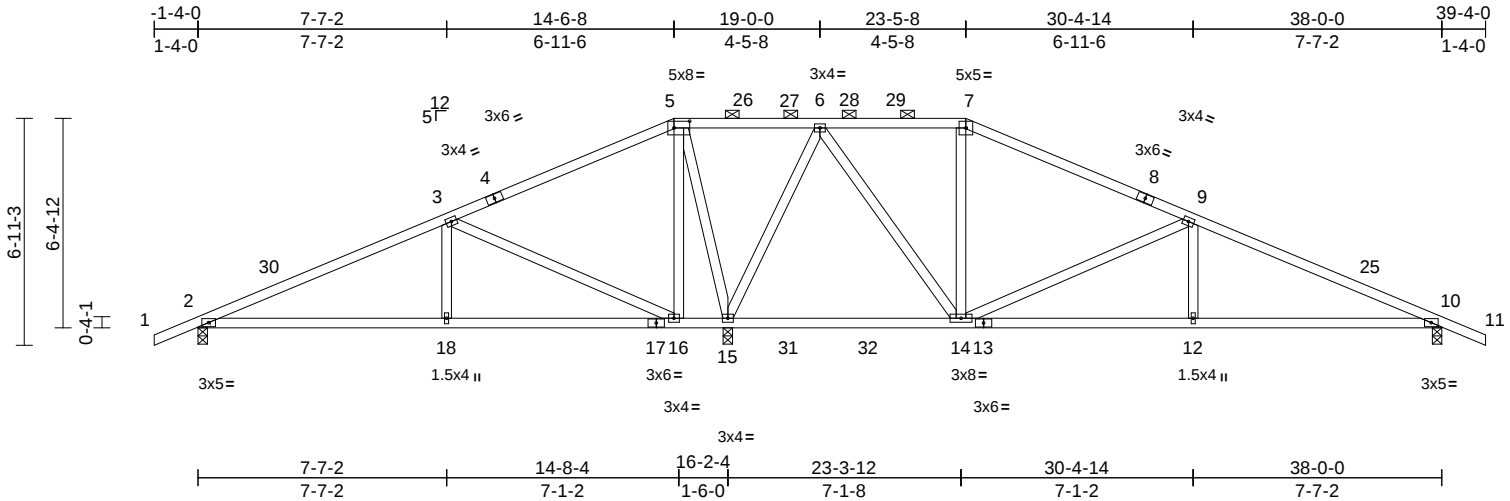
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Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755015
260108-02KM	H09	Hip	1	1	Job Reference (optional)	

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

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:42:41
ID:KvMt0K3xRon7F88NGJbWQzXqC-LfC?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)

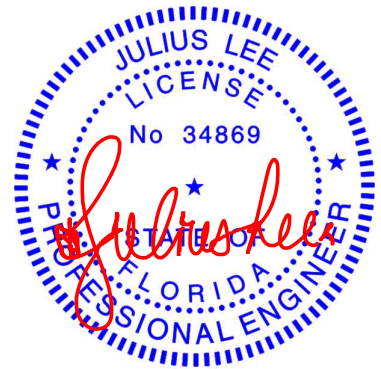
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 7-9=-352/161, 9-10=-1111/351, 10-11=0/28, 5-6=-105/752, 6-7=-244/195, 1-2=0/28, 2-3=-438/162, 3-5=-99/629
BOT CHORD 2-18=-137/364, 16-18=-137/364, 15-16=-567/297, 14-15=-332/222, 12-14=-238/982, 10-12=-238/982
WEBS 9-12=0/266, 9-14=-875/337, 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; 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 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



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

January 9,2026

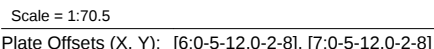
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

MiTek®

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Chesterfield, MO 63017
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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. Thu Jan 08 14:42:41 Page: 1
ID:sioVpO2Jq4fGd?ZAibByOCzxQcM-RfC?PsB70Hg3NSaPanL8w3uITxbGKWrcDoi7J4zJC?f

LOAD CASE(S) Standard

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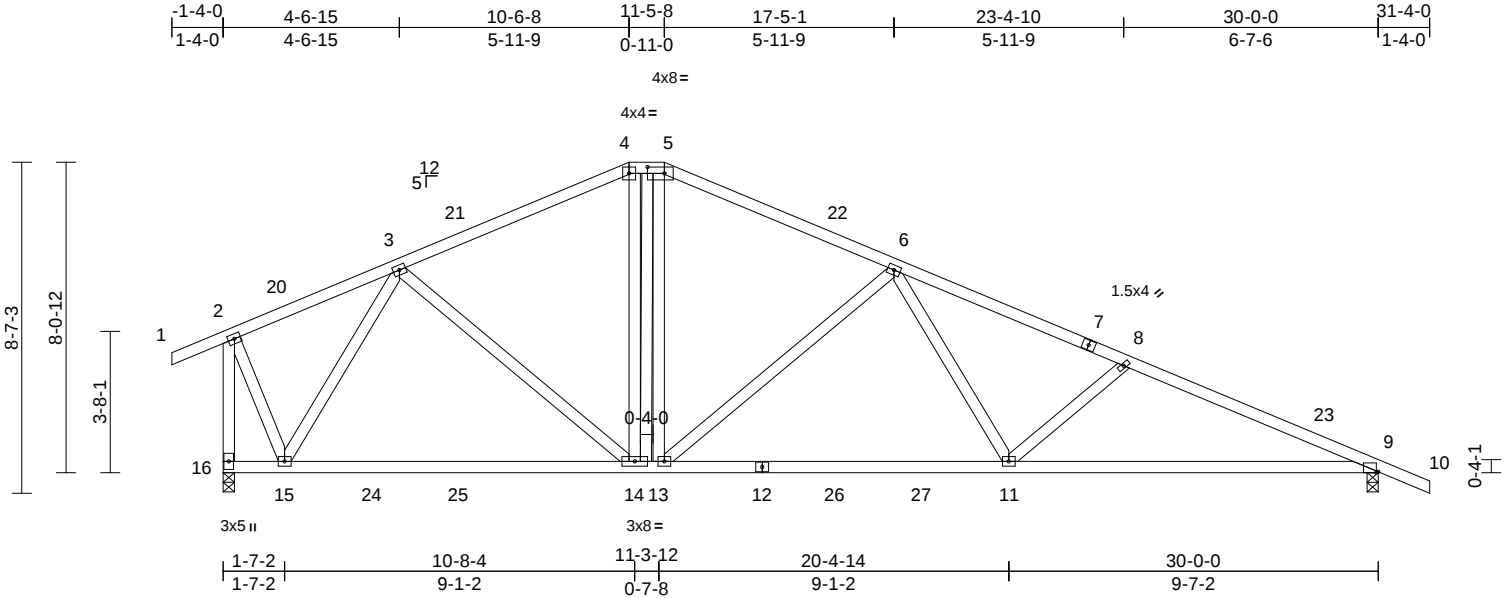
Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755017
260108-02KM	H07	Hip	1	1	Job Reference (optional)	

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

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:42:41

Page: 1

ID:sjoVpO2Jg4fGd?ZAibByOCzQcM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



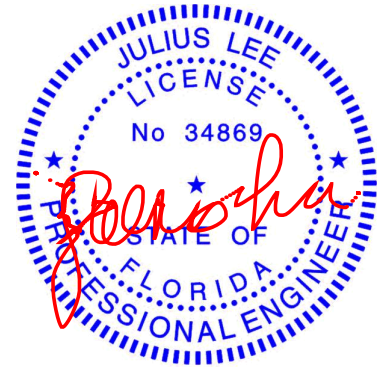
Scale = 1:59.8									
Plate Offsets (X, Y): [5:0-5-4,0-2-0], [9:0-0-10,Edge]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.23 11-13	>999	240
TCDL	7.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.36 11-13	>999	180
BCLL	0.0*	Rep Stress 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

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=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



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

January 9,2026

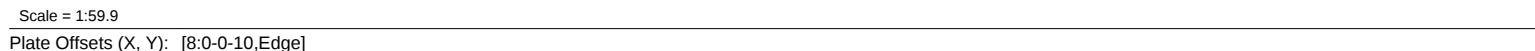
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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MiTek®

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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. Thu Jan 08 14:42:43 Page: 1
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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

- 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) All plates are 3x4 MT20 unless otherwise indicated.
- 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 14 and 365 lb uplift at joint 8.

LOAD CASE(S) Standard

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCFL=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 drip DOL=1.60



January 9, 2026



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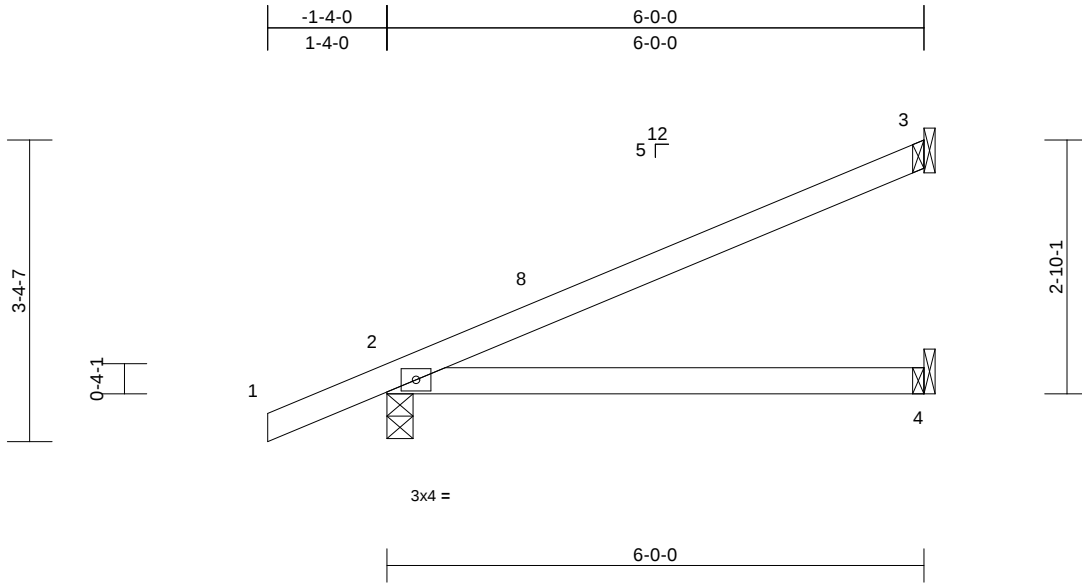
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755019
260108-02KM	J06	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. Thu Jan 08 14:42:42
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Page: 1



Scale = 1:25.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	0.09	4-7	>836	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.10	4-7	>714	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: 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)

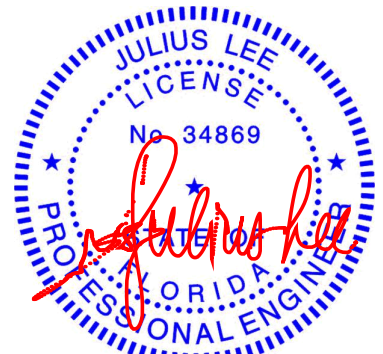
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/28, 2-3=-122/50
BOT CHORD 2-4=-63/101

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.

- 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



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

January 9, 2026

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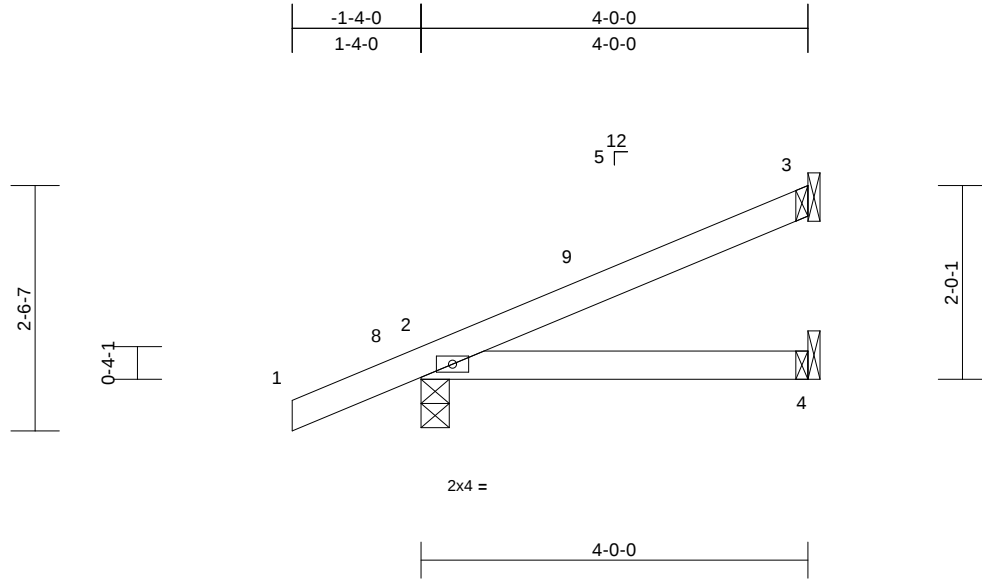
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755020
260108-02KM	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. Thu Jan 08 14:42:42
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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)

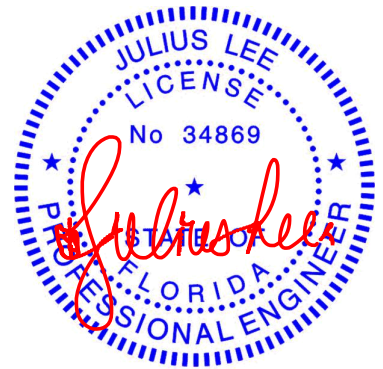
FORCES (lb) - Maximum Compression/Maximum
Tension

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



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

January 9,2026

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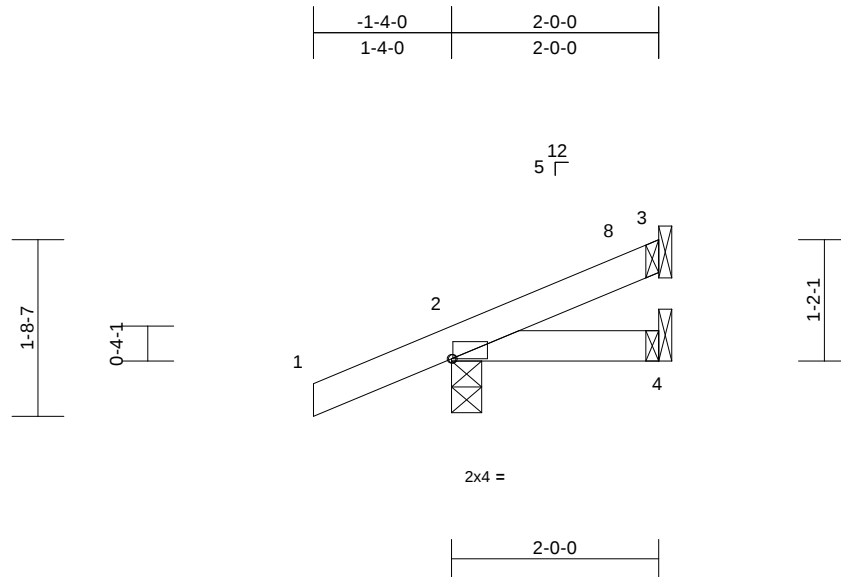
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Mitch Brown	
260108-02KM	J04	Jack-Open	2	1	Job Reference (optional)	T39755021

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

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:42:42
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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

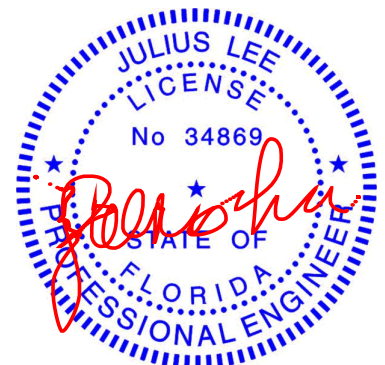
BOT CHORD 2-4=-27/83

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.

- 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



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Date:

January 9, 2026

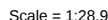
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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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. Thu Jan 08 14:42:42 Page: 1
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LUMBER

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

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

FORCES (lb) - Maximum Compression/Maximum Tension

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.



January 9, 2026



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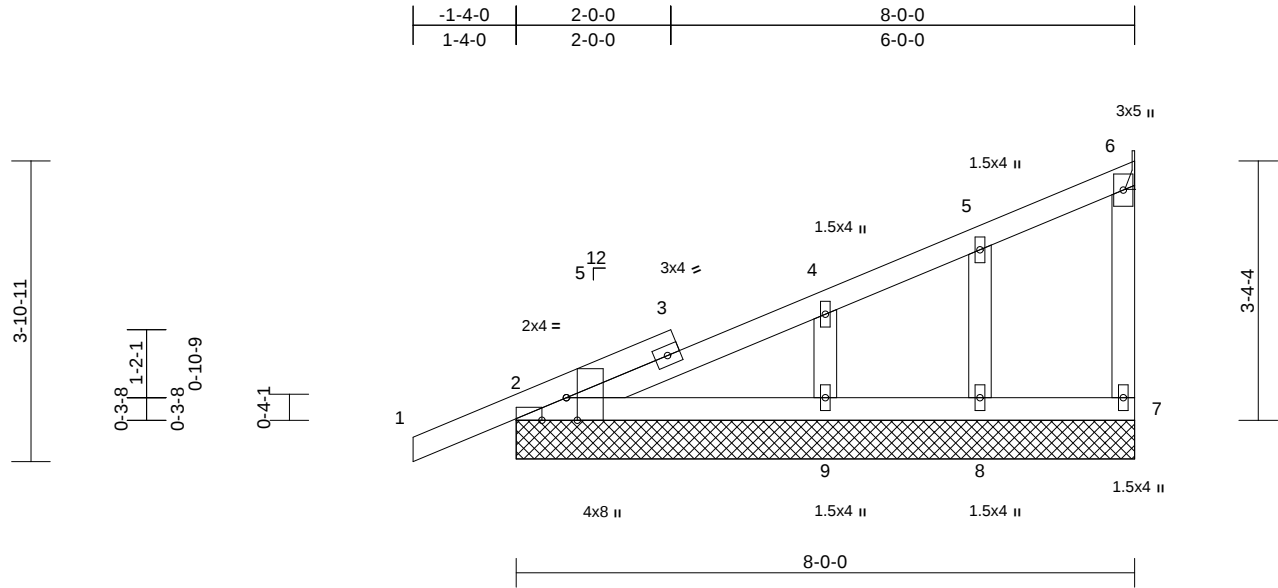
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Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755023
260108-02KM	J01	Monopitch Supported Gable	1	1	Job Reference (optional)	

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

Run: 8.73 E Nov 16 2023 Print: 8.730 E Nov 16 2023 MiTek Industries, Inc. Fri Jan 09 08:46:12
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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), 10=149 (LC 11)
Max Uplift	All uplift 100 (lb) or less at joint(s) 2, 6, 8, 9, 10
Max Grav	All reactions 250 (lb) or less at joint (s) 2, 6, 7, 8, 9, 10

FORCES

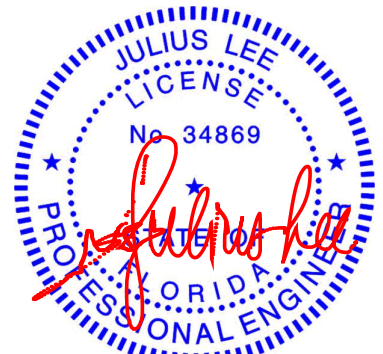
(lb) - Max. Comp./Max. Ten. - All forces 250	
(lb) or less except when shown.	
TOP CHORD	2-3=-304/147, 3-4=-300/161
WEBS	4-9=-171/300

NOTES

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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

January 9,2026

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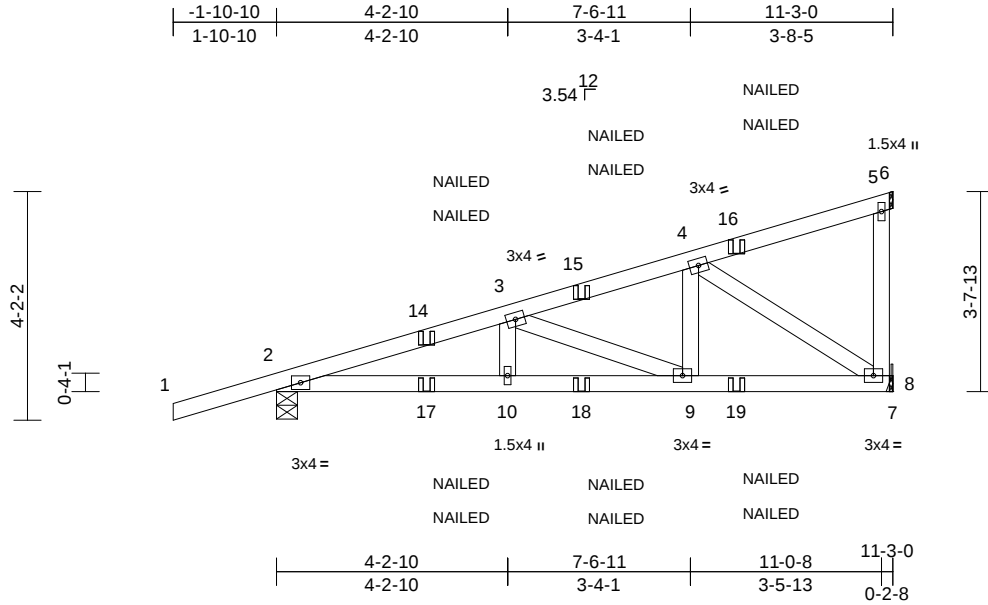
Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755024
260108-02KM	CJ01	Diagonal Hip Girder	1	1	Job Reference (optional)	

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

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:42:39

Page: 1

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Scale = 1:42.1

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

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); cantilever left and right exposed; end vertical left and right exposed; 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 221 lb uplift at joint 2 and 150 lb uplift at joint 8.
 - 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 9) 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
- 1) 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)



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

January 9, 2026

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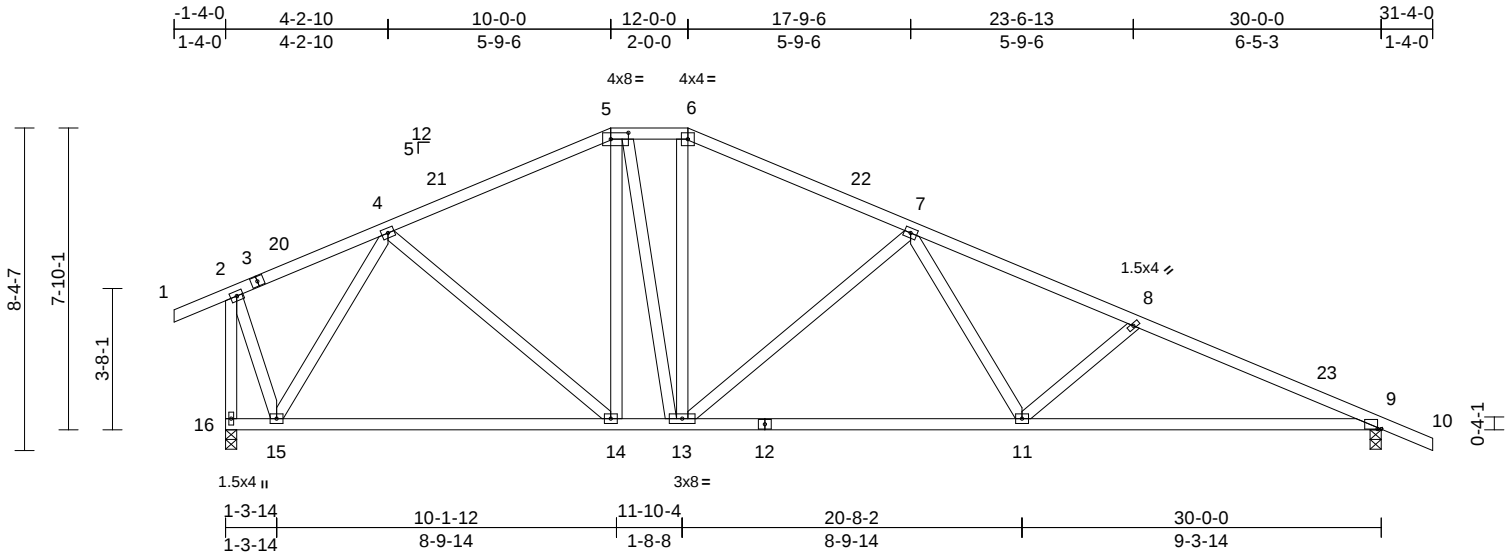
Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755025
260108-02KM	H05	Hip	1	1	Job Reference (optional)	

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

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:42:41

Page: 1

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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 (5-10-7 max.): 5-6.
BOT CHORD Structural wood sheathing directly applied or 7-7-15 oc bracing.

REACTIONS

(size) 9=0-3-8, 16=0-3-8
Max Horiz 16=-262 (LC 10)
Max Uplift 9=-365 (LC 12), 16=-368 (LC 12)
Max Grav 9=1087 (LC 1), 16=1095 (LC 1)

FORCES

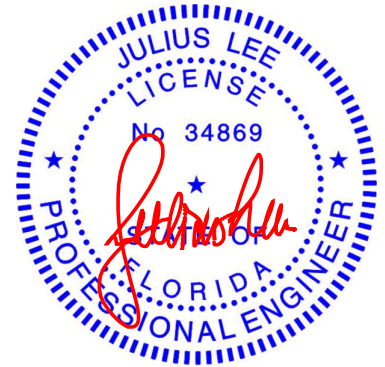
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-4=-354/220, 4-5=-1043/470, 5-6=-965/492, 6-7=-1109/496, 7-8=-1858/668, 8-9=-2117/743, 9-10=0/28, 2-16=-1140/395
BOT CHORD 15-16=-149/204, 14-15=-160/717, 13-14=-146/900, 11-13=-381/1447, 9-11=-581/1921
WEBS 4-15=-833/371, 4-14=-44/308, 5-14=-114/69, 6-13=-84/236, 7-13=-642/310, 7-11=-79/474, 8-11=-351/215, 2-15=-222/897, 5-13=-125/360

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=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
- 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.
- 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



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

January 9, 2026

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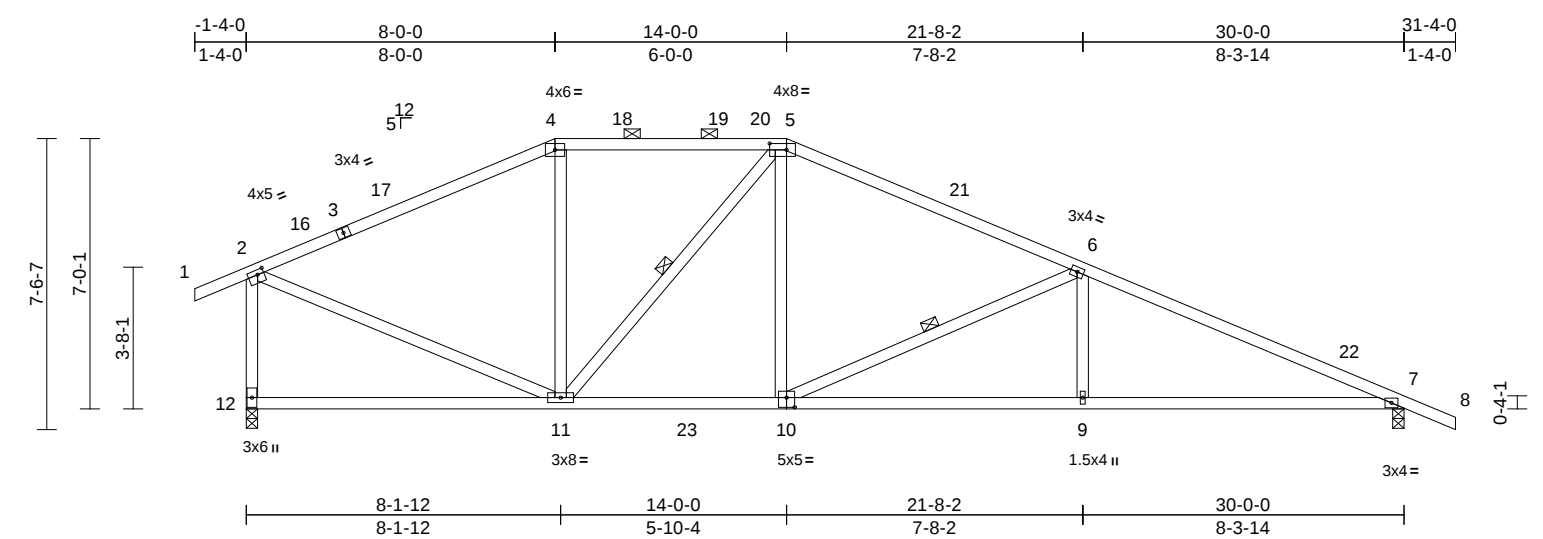
Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755026
260108-02KM	H04	Hip	1	1	Job Reference (optional)	

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

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:42:41

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Page: 1



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]

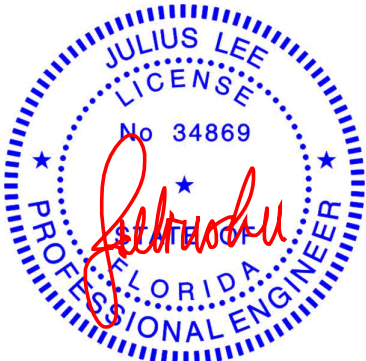
Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	-0.20	9-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.33	9-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.06	7	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	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**
- 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 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

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 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 12 and 365 lb uplift at joint 7.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

January 9,2026

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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Chesterfield, MO 63017
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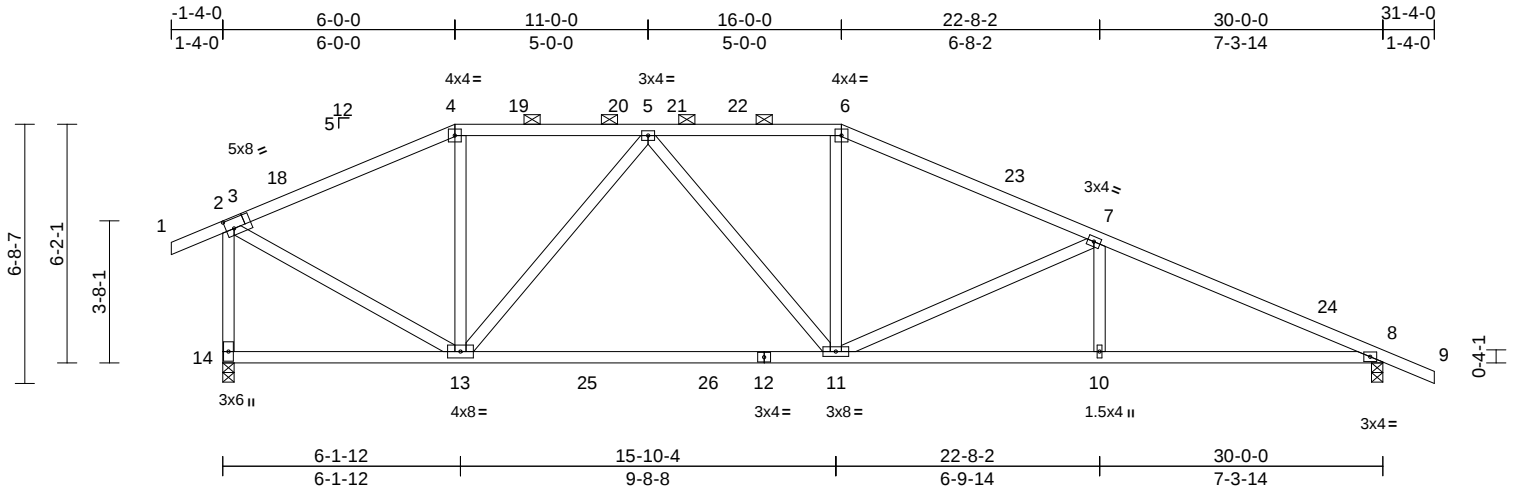
Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755027
260108-02KM	H03	Hip	1	1	Job Reference (optional)	

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

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:42:40

Page: 1

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Scale = 1:59.6

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

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	0.52	Vert(LL)	-0.33	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.51	11-13	>708	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.06	8	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.): 4-6.
BOT CHORD Structural wood sheathing directly applied or 7-7-5 oc bracing.

REACTIONS

(size) 8=0-3-8, 14=0-3-8
Max Horiz 14=-225 (LC 10)
Max Uplift 8=-365 (LC 12), 14=-368 (LC 12)
Max Grav 8=1229 (LC 18), 14=1193 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-4=-1098/417, 4-5=-975/428, 5-6=-1513/571, 6-7=-1687/577, 7-8=-2394/734, 8-9=0/28, 2-14=-1142/482
BOT CHORD 13-14=-112/183, 11-13=-303/1349, 10-11=-581/2169, 8-10=-581/2169
WEBS 4-13=0/234, 5-13=-600/254, 5-11=-36/291, 6-11=-41/383, 7-11=-775/313, 7-10=0/229, 2-13=-313/1114

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 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

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

January 9,2026

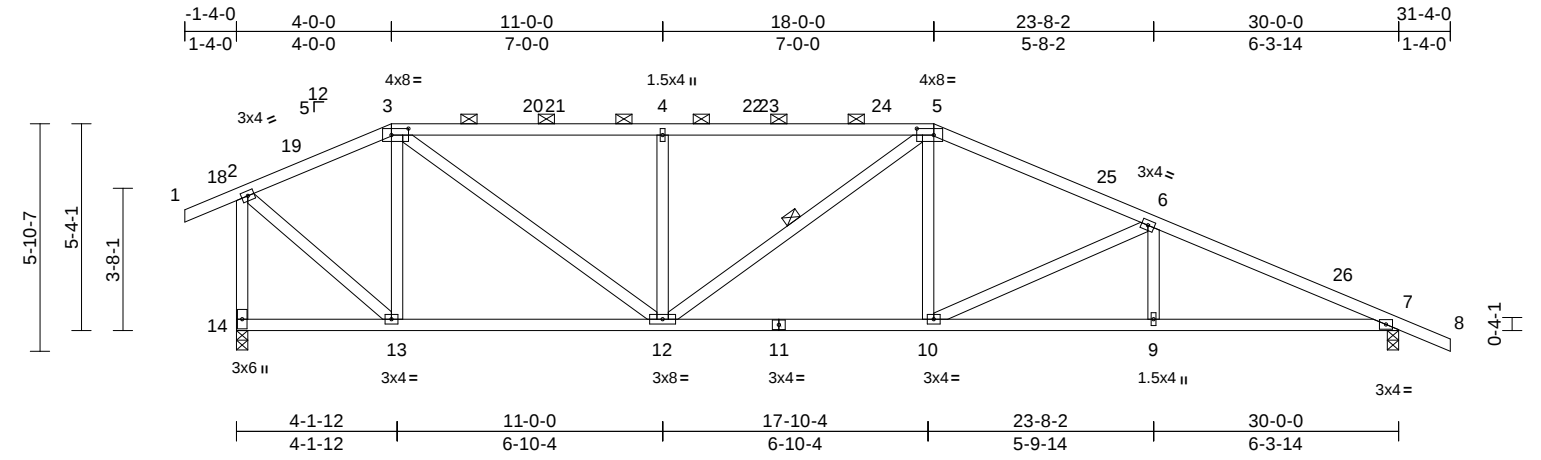
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755028
260108-02KM	H02	Hip	1	1	Job Reference (optional)	

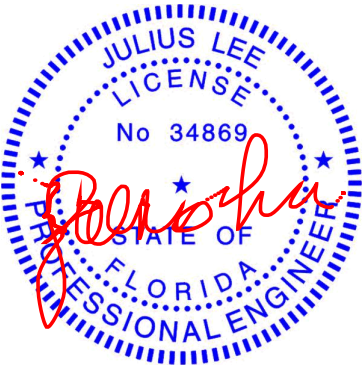


Scale = 1:59.5

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%

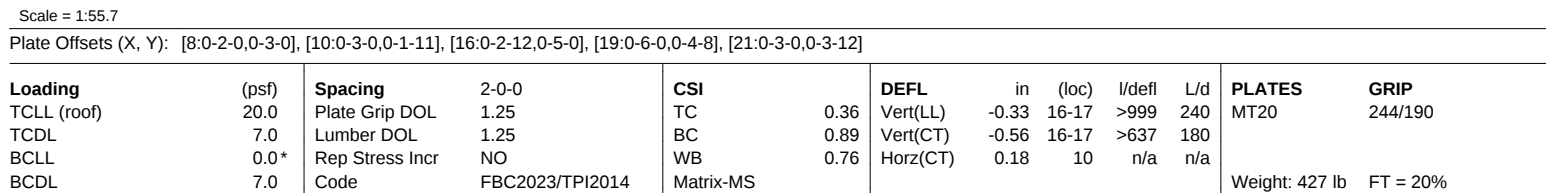
- LUMBER**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
- BRACING**
TOP CHORD Structural wood sheathing directly applied or 3-8-5 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-4 max.): 3-5.
BOT CHORD Structural wood sheathing directly applied or 7-6-12 oc bracing.
WEBS 1 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; 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 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



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16023 Swingle Ridge Rd. Chesterfield, MO 63017
Date:

January 9,2026

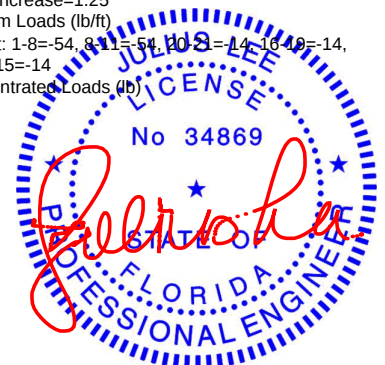
Coastal Truss & Vinyl Siding, Patterson, GA - 31577, Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:42:41 Page: 1
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NOTES

- 1) 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.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCFL=4.2psf; BCDL=4.2psf; I=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
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 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 3-06-00 tall by 2-00-00 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 1104 lb uplift at joint 21 and 880 lb uplift at joint 10.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- 12) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2'-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.
 - 13) 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.
 - 14) Fill all nail holes where hanger is in contact with lumber.
 - 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 16) 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
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-8=-54, 8-11=54, 11-13=-14, 13-14=14, 14-16=49=-14, 10-15=-14
Concentrated Loads (lb)



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

January 9, 2026

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Mitch Brown
260108-02KM	H06	Roof Special Girder	1	2	T39755029
					Job Reference (optional)

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.

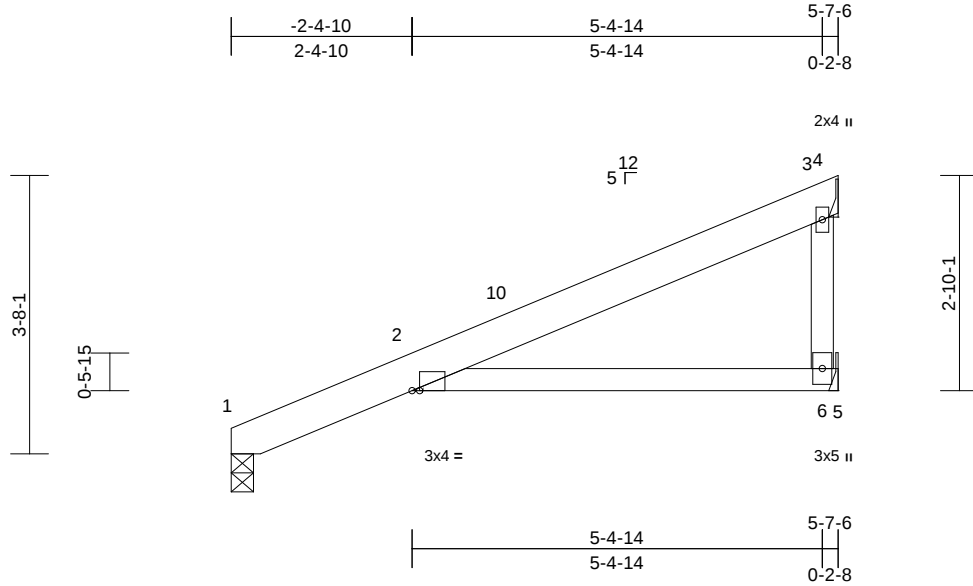
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755030
260108-02KM	J03	Jack-Open	6	1	Job Reference (optional)	

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

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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
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.05	6-9	>999	180	244/190
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)

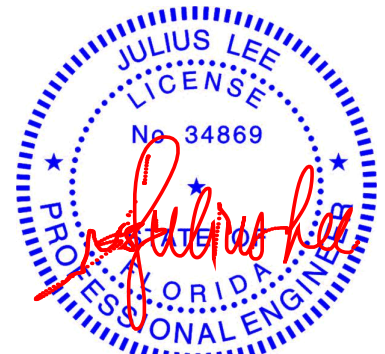
FORCES (lb) - Maximum Compression/Maximum Tension

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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

January 9,2026

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MiTek®

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

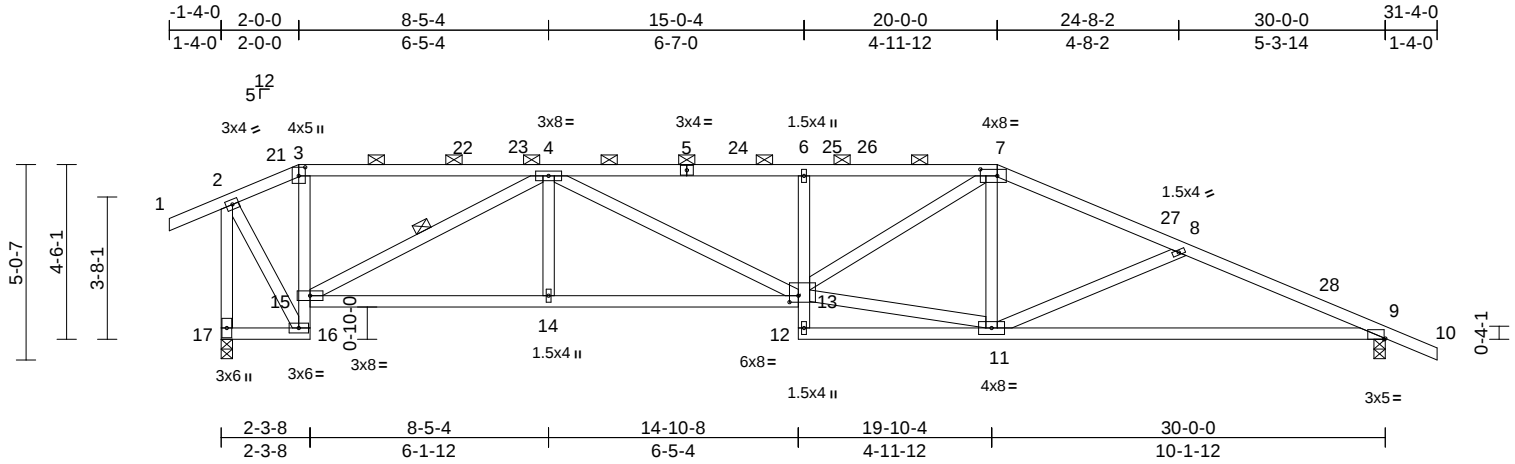
Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755031
260108-02KM	H01	Hip	1	1	Job Reference (optional)	

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

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Thu Jan 08 14:42:40

Page: 1

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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	MT20	244/190
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

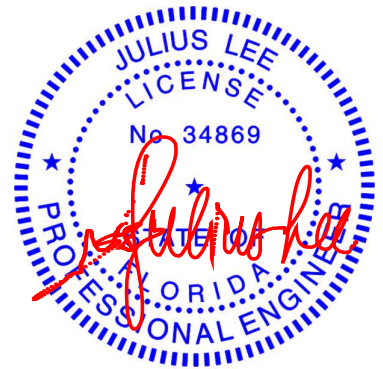
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-532/279, 3-4=-556/280, 4-6=-2273/851, 6-7=-2239/843, 7-8=-1819/653, 8-9=-2165/782, 9-10=0/28, 2-17=-1148/460
BOT CHORD 16-17=-108/174, 15-16=-709/292, 3-15=-10/114, 14-15=-498/1864, 13-14=-498/1864, 12-13=0/45, 6-13=-327/191, 11-12=-58/131, 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

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=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



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

January 9, 2026

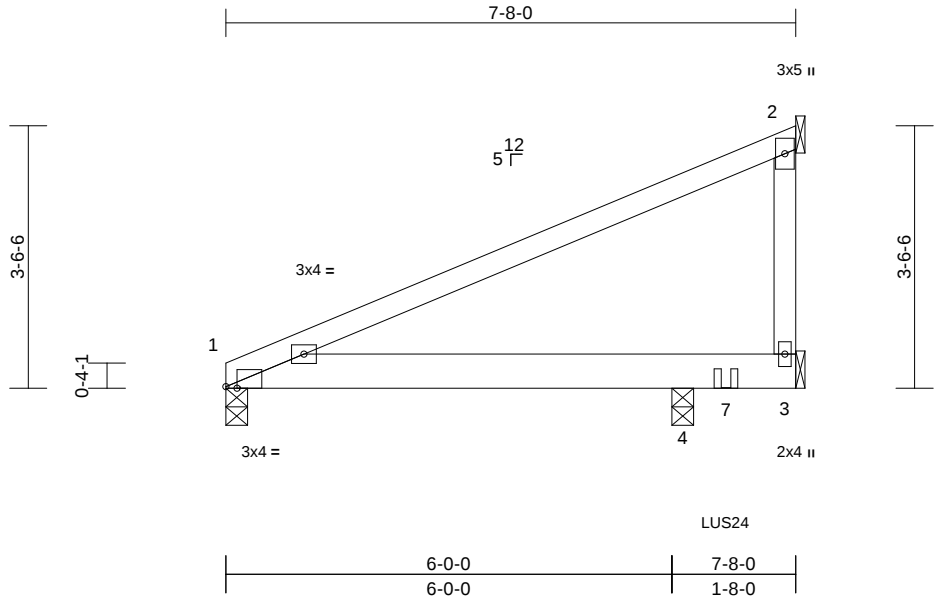
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Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755032
260108-02KM	J08	Jack-Open Girder	1	1	Job Reference (optional)	

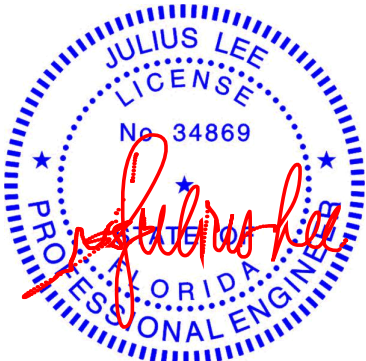


Scale = 1:31

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**
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); cantilever left and right exposed ;
end vertical left and right exposed; 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 , Joint 4
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 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.
8) Gap between inside of top chord bearing and first
diagonal or vertical web shall not exceed 0.500in.
9) 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.
10) Fill all nail holes where hanger is in contact with lumber.
11) 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
1) 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)



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

January 9,2026

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Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755033
260108-02KM	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. Thu Jan 08 14:42:43
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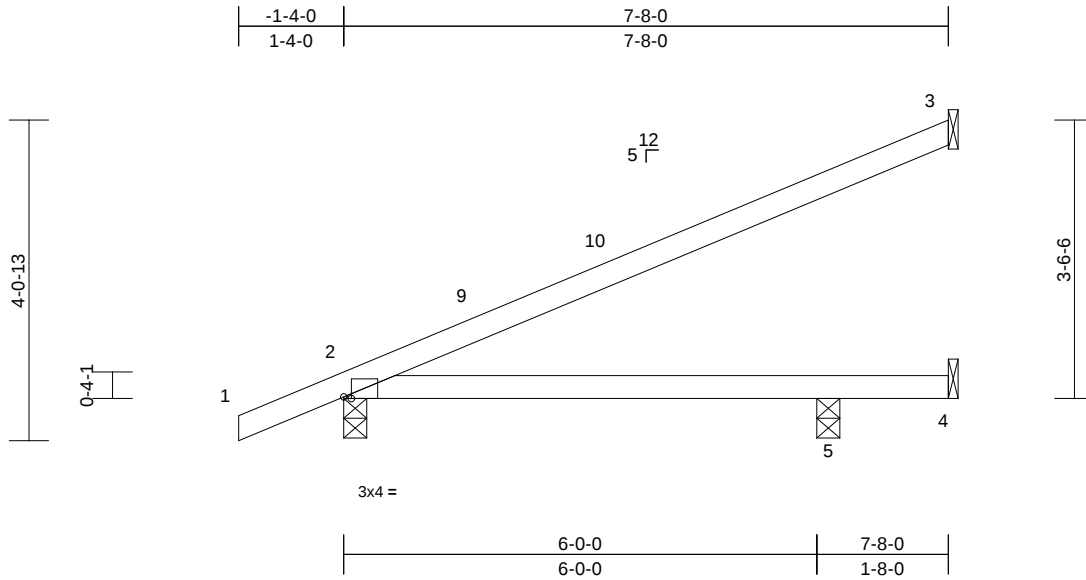


Plate Offsets (X, Y): [2:0-1-2,Edge]

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

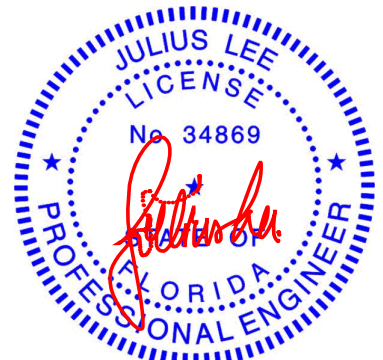
TOP CHORD 1-2=0/28, 2-3=-146/55
BOT CHORD 2-5=-69/109, 4-5=0/0

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; 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 7-7-4 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



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

January 9, 2026

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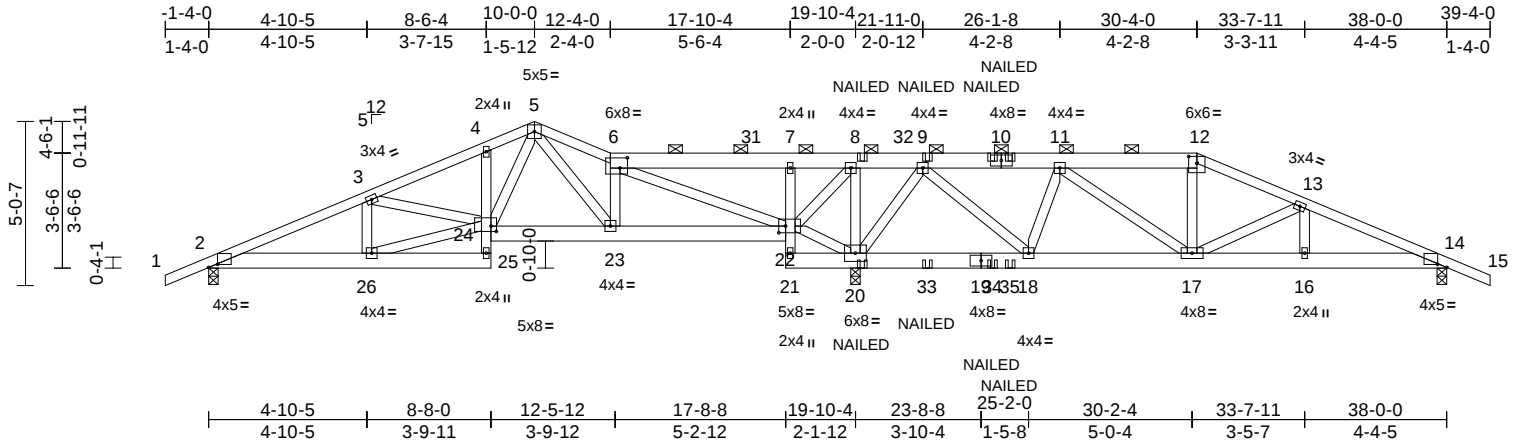
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755034
260108-02KM	T05	Roof Special Girder	1	2	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. Thu Jan 08 14:42:43
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Page: 1



Scale = 1:70.7

Plate Offsets (X, Y): [2:0-3-5,0-1-2], [6:0-2-12,0-3-12], [12:0-3-0,0-2-9], [14:0-3-5,0-1-2], [22:0-2-8,0-2-8], [24:0-2-0,0-2-0]

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	0.16	Vert(LL)	-0.02	23-24	>999	240	MT20
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.03	23-24	>999	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.01	14	n/a	n/a	
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 508 lb FT = 20%											

LUMBER

TOP CHORD	2x4 SP No.2 *Except* 6-10,10-12:2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 25-4:2x4 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.): 6-12.
BOT CHORD	Structural wood sheathing directly applied or 6-0-0 oc bracing.

REACTIONS

(size)	2=0-3-8, 14=0-3-8, 20=0-3-8
Max Horiz	2=113 (LC 7)
Max Uplift	2=-242 (LC 32), 14=-269 (LC 8), 20=-985 (LC 8)
Max Grav	2=589 (LC 23), 14=582 (LC 20), 20=1889 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/28, 2-3=-985/340, 3-4=-800/318, 4-5=-775/352, 5-6=-574/340, 6-7=-261/747, 7-8=-249/721, 8-9=-311/1109, 9-11=-330/384, 11-12=-610/350, 12-13=-688/357, 13-14=-982/418, 14-15=0/28
BOT CHORD	2-26=-234/878, 25-26=-29/111, 24-25=0/60, 4-24=-137/88, 23-24=-86/513, 22-23=-135/512, 20-21=-22/18, 18-20=-578/378, 17-18=-345/442, 16-17=-310/886, 14-16=-310/886
WEBS	3-26=-96/81, 24-26=-210/787, 3-24=-224/114, 5-24=-153/452, 5-23=-136/96, 6-23=-30/192, 6-22=-1283/374, 9-20=-1186/651, 9-18=-416/859, 11-18=-575/182, 11-17=-258/413, 12-17=-71/125, 13-17=-328/125, 13-16=0/130, 21-22=-37/52, 7-22=-300/154, 8-20=-498/125, 20-22=-1170/471, 8-22=-221/618

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, 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; TCDL=4.2psf; BCDL=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 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 242 lb uplift at joint 2, 985 lb uplift at joint 20 and 269 lb uplift at joint 14.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

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=-54, 6-12=-54, 12-15=-54, 2-25=-14, 22-24=-14, 14-21=-14
Concentrated Loads (lb)
Vert: 10=-202 (B), 20=55 (B), 9=-111 (B), 8=-111 (B), 33=55 (B), 34=55 (B), 35=-27 (B)



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

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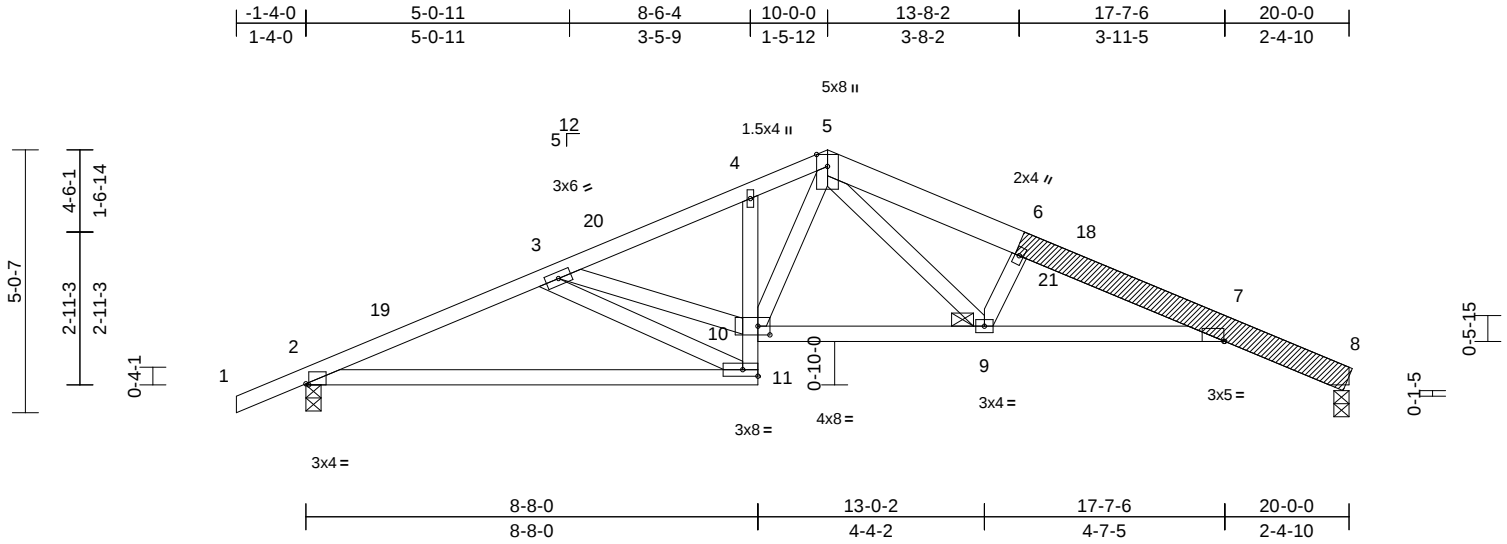
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755035
260108-02KM	T04	Roof Special	4	1	Job Reference (optional)	

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

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Fri Jan 09 09:09:19
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Page: 1



Scale = 1:44.2

Plate Offsets (X, Y): [2:0-0-10,Edge], [7:0-0-3,Edge], [10:0-2-12,0-2-0]

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	0.58	Vert(LL)	-0.15	9-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.28	11-14	>858	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.14	8	n/a	n/a		
BCDL	7.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 116 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 5-8:2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
LBR SCAB 6-8 SP No.2 one side

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-10-2 oc purlins.
BOT CHORD Structural wood sheathing directly applied or 6-10-9 oc bracing.
JOINTS 1 Brace at Jt(s): 9

REACTIONS

(lb/size) 2=750/0-3-8, 8=675/0-3-8
Max Horiz 2=103 (LC 11)
Max Uplift 2=-265 (LC 12), 8=-195 (LC 12)

FORCES

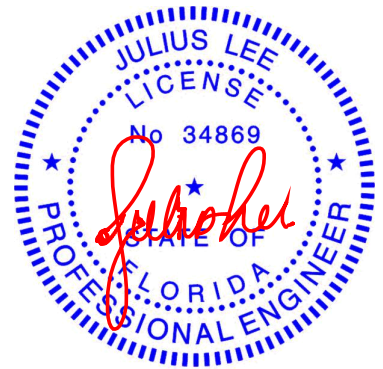
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-1334/633, 3-19=-1312/645, 3-20=-1290/604, 4-20=-1243/613, 4-5=-1297/683, 5-6=-1718/827, 6-21=-1740/822, 18-21=-1750/819, 7-18=-1796/812, 7-8=-254/144
BOT CHORD 2-11=-533/1211, 10-11=-219/564, 9-10=-327/984, 7-9=-707/1742
WEBS 3-11=-1105/543, 3-10=-395/960, 5-10=-264/491, 5-9=-382/810, 6-9=-532/331

NOTES

- Attached 7-0-0 scab 6 to 8, front face(s) 2x6 SP No.2 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 2-6-2 from end at joint 6, nail 2 row(s) at 7" o.c. for 2-9-2.
- 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 14-2-15 to 19-10-4 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
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 8 and 265 lb uplift at joint 2.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.

LOAD CASE(S) Standard



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

January 9,2026

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

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

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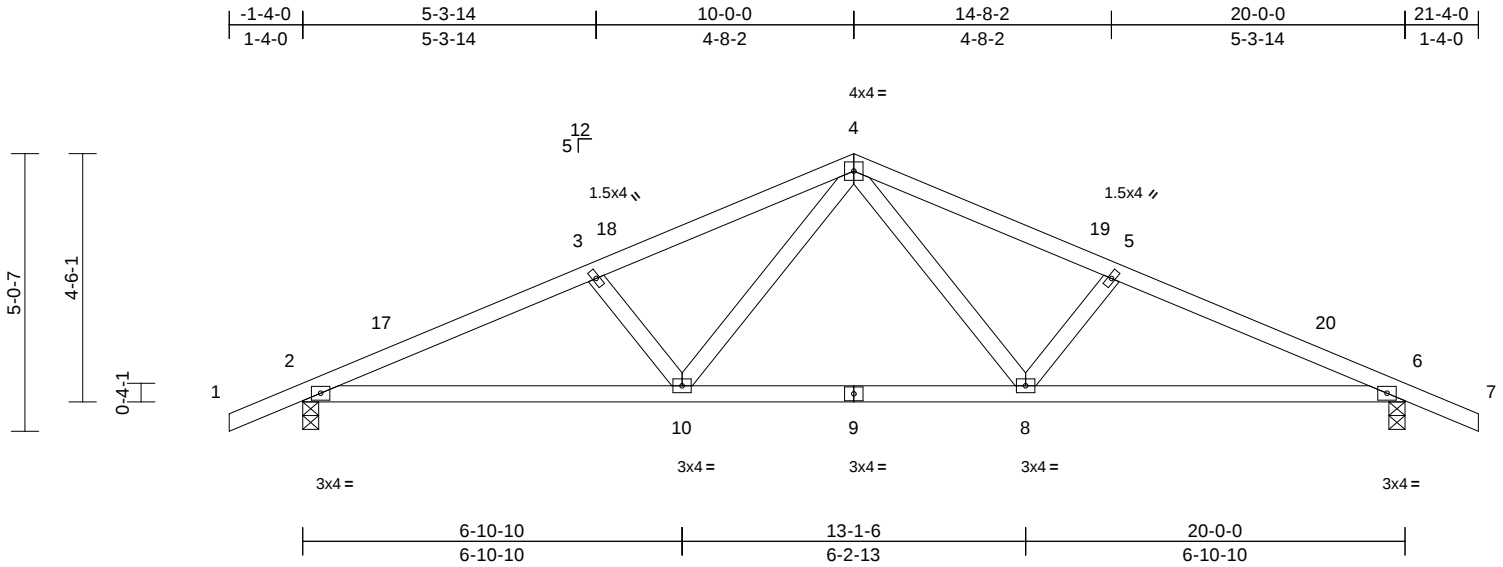
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755036
260108-02KM	T03	Common	1	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. Thu Jan 08 14:42:43
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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)

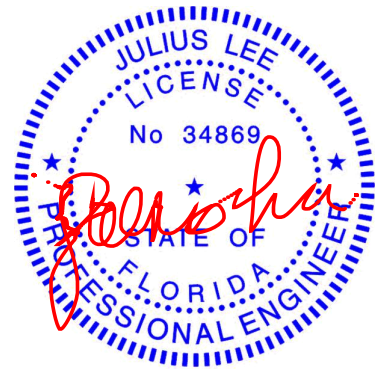
FORCES

(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



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

January 9,2026

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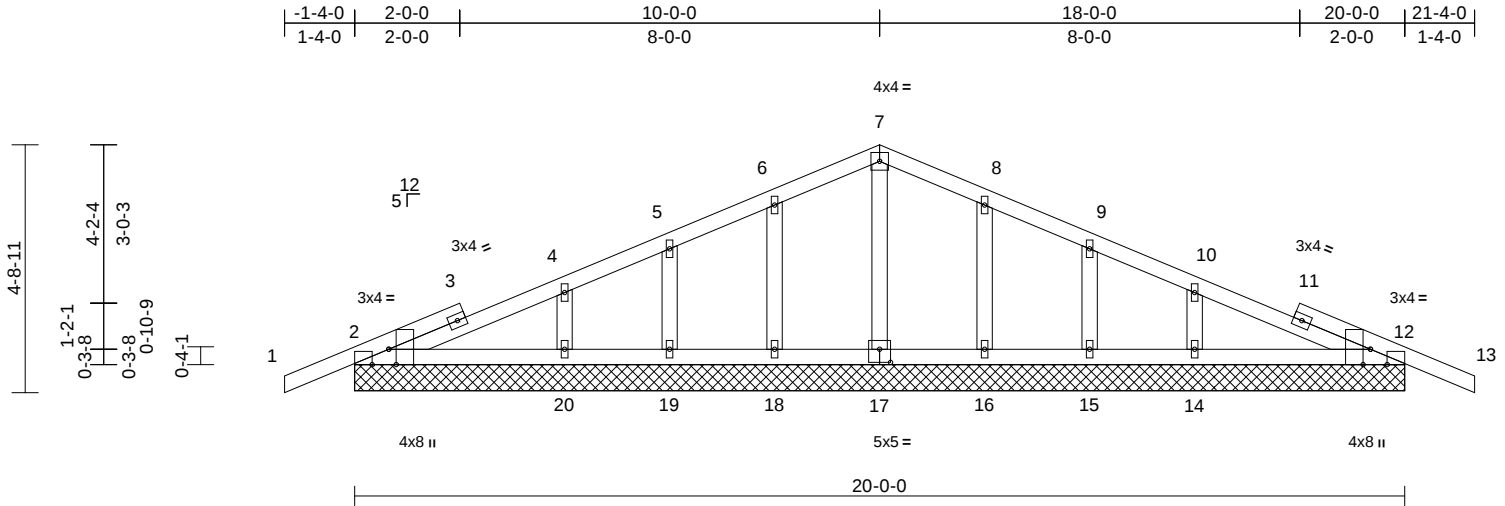
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755037
260108-02KM	GE02	Common Supported Gable	1	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. Thu Jan 08 14:42:40
ID:wKgkOi138TPZOhPobA8UJnzxQcO-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
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	n/a	-	n/a	999	244/190
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

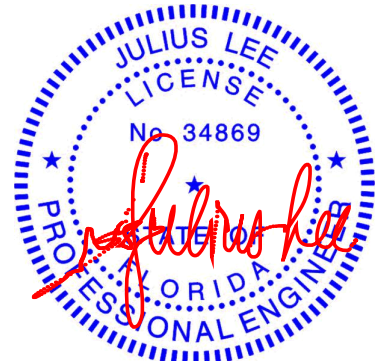
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-0/28, 2-4=-52/96, 4-5=-41/67, 5-6=-27/99, 6-7=-39/158, 7-8=-39/158, 8-9=-18/99, 9-10=-12/49, 10-12=-48/64, 12-13=0/28
BOT CHORD 2-20=-47/118, 19-20=-47/118, 18-19=-47/118, 16-18=-47/118, 15-16=-47/118, 14-15=-47/118, 12-14=-47/118
WEBS 7-17=-112/0, 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; 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
- 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



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

January 9,2026

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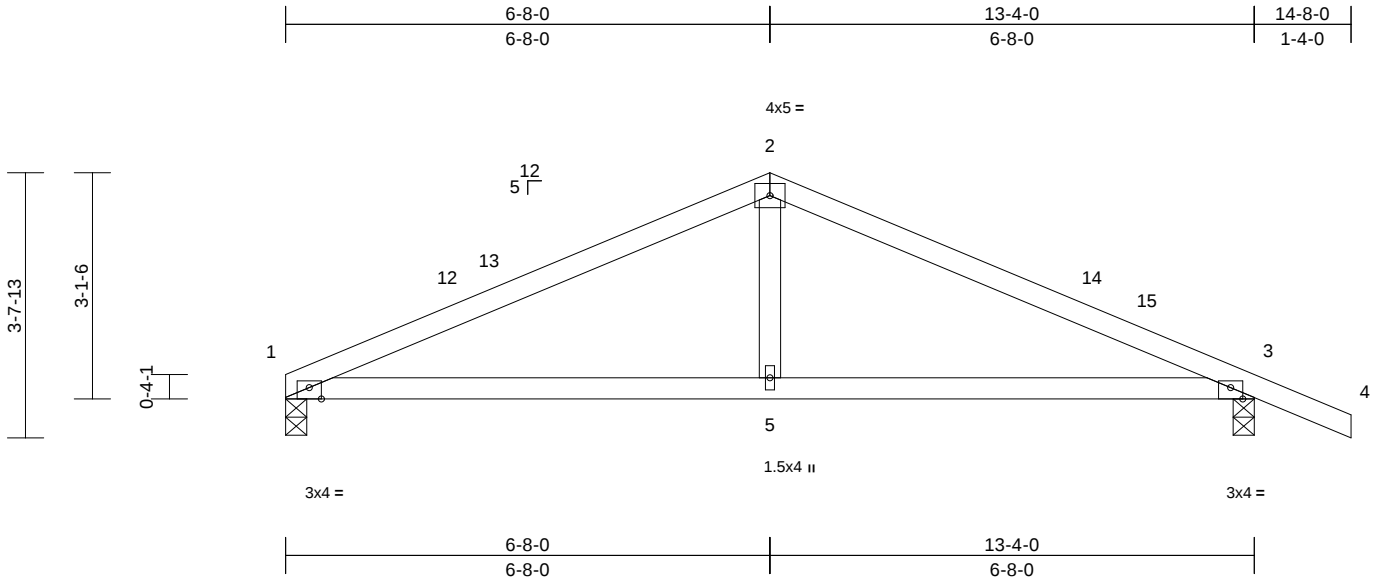
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755038
260108-02KM	T02	Common	5	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. Thu Jan 08 14:42:43
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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



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

January 9, 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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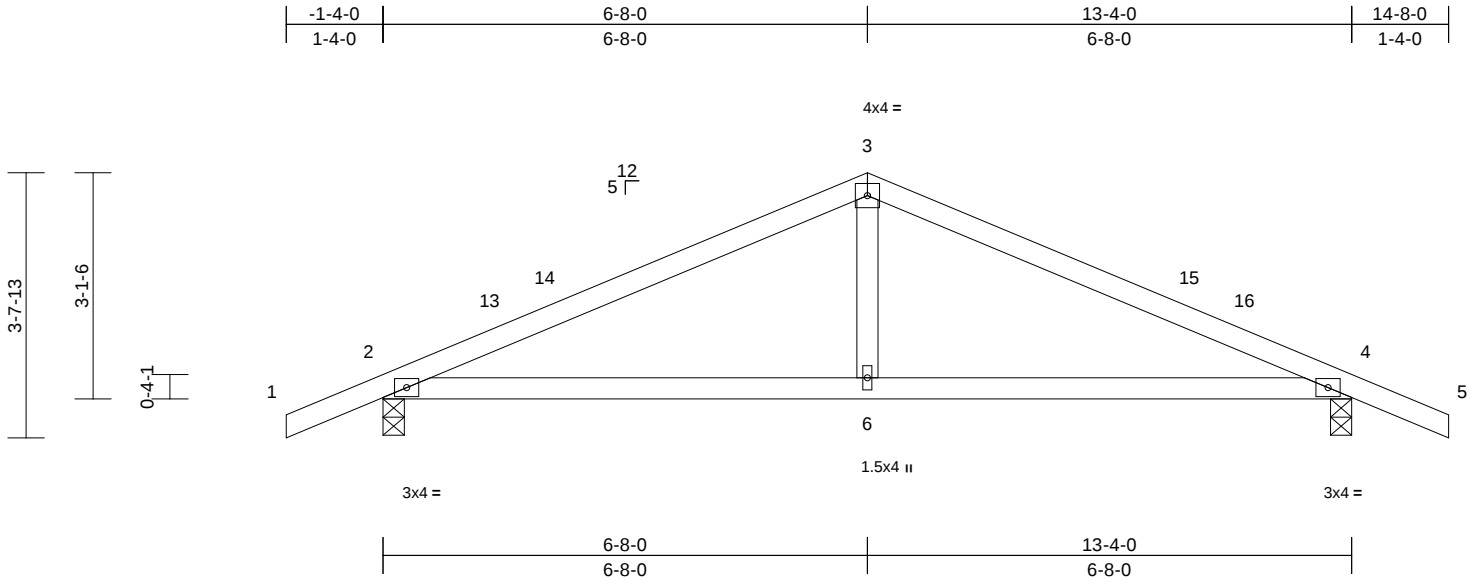
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755039
260108-02KM	T01	Common	4	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. Thu Jan 08 14:42:43
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Page: 1



Scale = 1:31.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	0.06	6-12	>999	240	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)

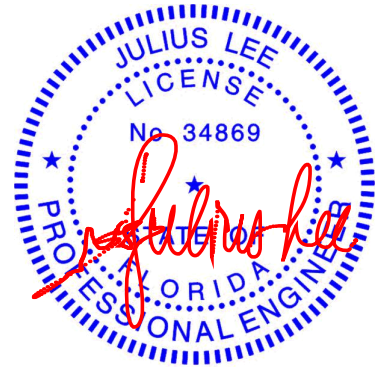
FORCES (lb) - Maximum Compression/Maximum Tension

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



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

January 9, 2026

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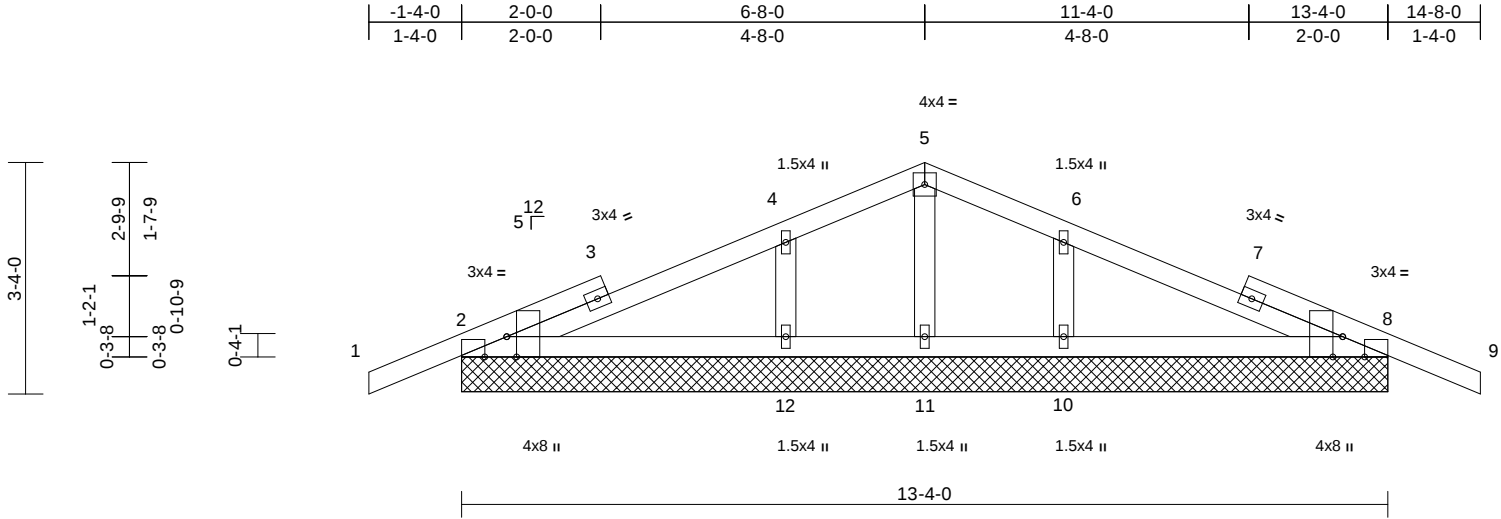
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Mitch Brown	T39755040
260108-02KM	GE01	Common Supported Gable	1	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. Thu Jan 08 14:42:40
ID:S87MBM0RN9HimXqb1TdFmazXqP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	n/a	-	n/a	999	244/190
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 10)
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

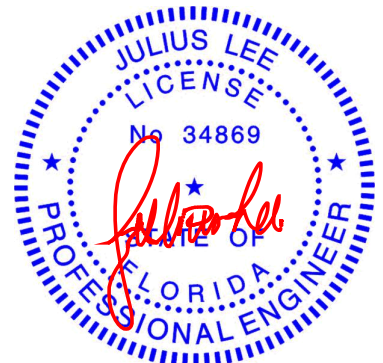
WEBS 5-11=-112/41, 4-12=-208/278, 6-10=-208/278

NOTES

- 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=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.
- 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 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



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

January 9, 2026

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

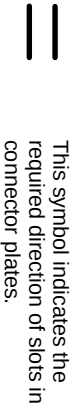
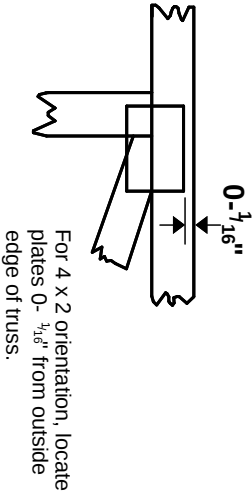
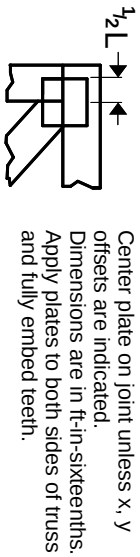
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

MiTek®

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

Symbols

PLATE LOCATION AND ORIENTATION



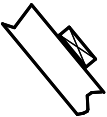
* Plate location details available in Mitek software or upon request.

PLATE SIZE

4 X 4

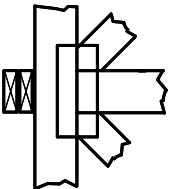
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

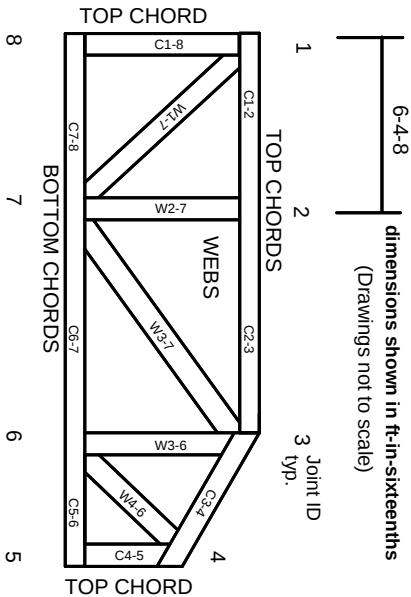
BEARING



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

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:
ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.
Lumber design values are in accordance with ANSI/TPI 1 section 6.3. These truss designs rely on lumber values established by others.

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Mitek Engineering Reference Sheet: MII-7473 rev. 1/12/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.