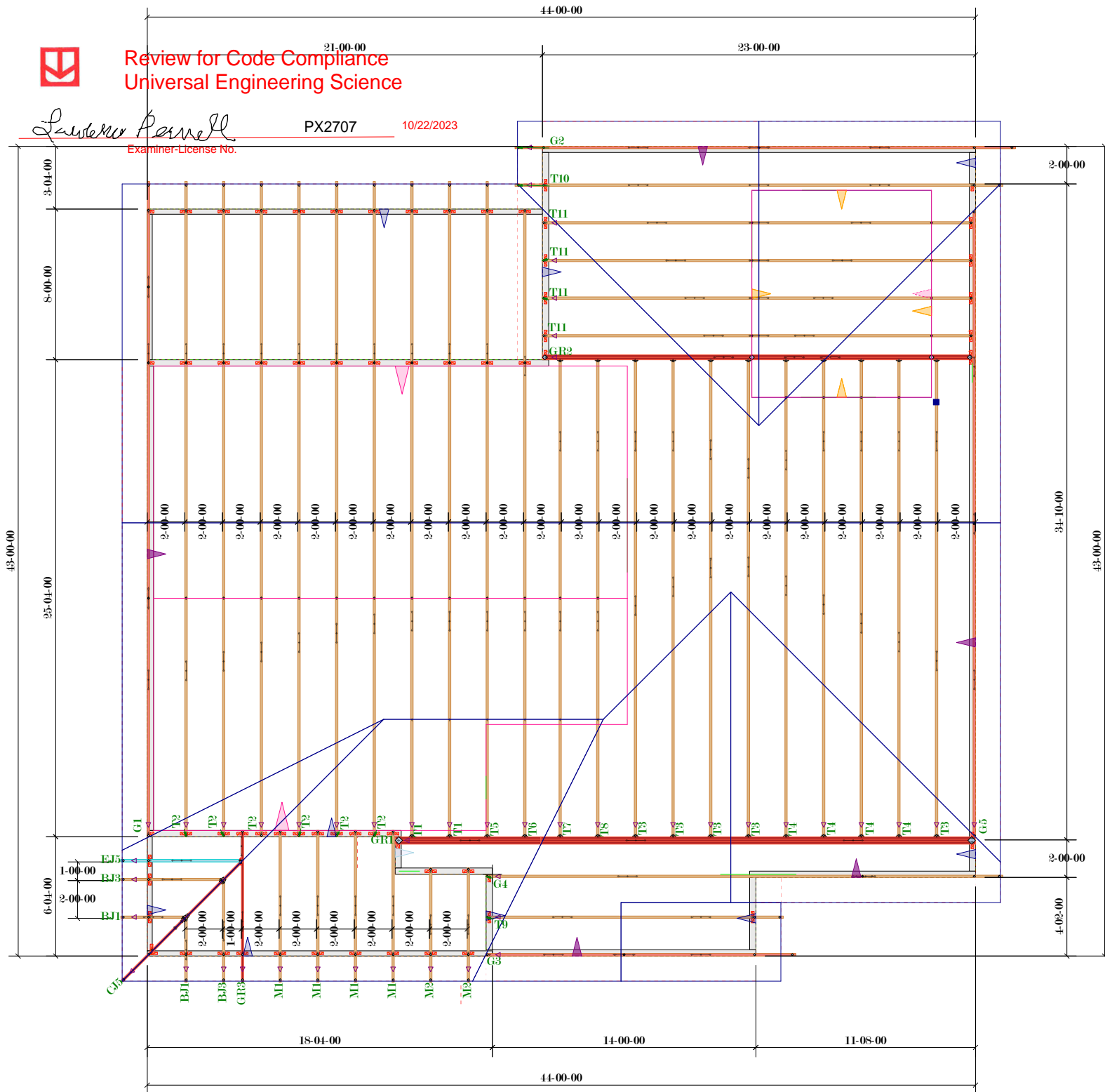


PX2707

10/22/2023

Examiner-License No.



HANGER LIST

JOB NAME: Anderson Home
CUSTOMER NAME: Live-Well Homes
ADDRESS:
DATE: 9/22/2023 JOB#1187

PITCH: 6/12
OVERHANG: 1-04-00
ROOF SPACING: 24"

WALL HEIGHT: 9"

*The General Contractor is Responsible For All Connections Other Than Truss to Truss, unless specified otherwise.

Roof loading
TCLL:20.0 lb/ft²
TCDL:10.0 lb/ft²
BCDL:10.0 lb/ft²
Floor Loading
TCLL:40.0 lb/ft²
TCDL:10.0 lb/ft²
BCDL:5.0 lb/ft²

***THIS DRAWING MUST BE APPROVED AND RETURNED BEFORE FABRICATION WILL BEGIN. For Your Protection Check All Dimensions and Conditions Prior to Approval Of Plan**

***SIGNATURE BELOW
INDICATES ALL NOTES AND
DEMENSIONS HAVE BEEN
ACCEPTED**

By: _____
Date: _____

NOTES:
***ALL DIMENSIONS ARE FEET-INCHES-SIXTEENTHS**
***DO NOT CUT OR ALTER TRUSSES IN ANY WAY**
***ONLY TRUSS TO TRUSS CONNECTIONS SUPPLIED WITH TRUSS PACKAGES**
***NO BACKCHARGES will be accepted**



25221 SE Hwy 19
Old Town, FL 32680
P:(352)469-5008
19Lumberinc@gmail.com



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

RE: 1187-A - Anderson Home

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

Site Information:

Customer Info: Live Well Homes Project Name: Anderson Model: .
Lot/Block: . Subdivision: .
Address: ., .
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: FBC2020/TPI2014 Design Program: MiTek 20/20 8.6
Wind Code: ASCE 7-16 Wind Speed: 140 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 25 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	T31656386	BJ1	9/26/23	23	T31656408	T9	9/26/23
2	T31656387	BJ3	9/26/23	24	T31656409	T10	9/26/23
3	T31656388	CJ5	9/26/23	25	T31656410	T11	9/26/23
4	T31656389	EJ5	9/26/23				
5	T31656390	G1	9/26/23				
6	T31656391	G2	9/26/23				
7	T31656392	G3	9/26/23				
8	T31656393	G4	9/26/23				
9	T31656394	G5	9/26/23				
10	T31656395	GR1	9/26/23				
11	T31656396	GR2	9/26/23				
12	T31656397	GR3	9/26/23				
13	T31656398	M1	9/26/23				
14	T31656399	M2	9/26/23				
15	T31656400	T1	9/26/23				
16	T31656401	T2	9/26/23				
17	T31656402	T3	9/26/23				
18	T31656403	T4	9/26/23				
19	T31656404	T5	9/26/23				
20	T31656405	T6	9/26/23				
21	T31656406	T7	9/26/23				
22	T31656407	T8	9/26/23				



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Joaquin Velez
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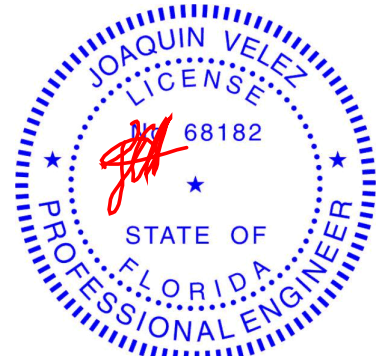
PX2707

10/22/2023

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc.
under my direct supervision based on the parameters
provided by 19 Lumber, Inc..

Truss Design Engineer's Name: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2025.

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



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

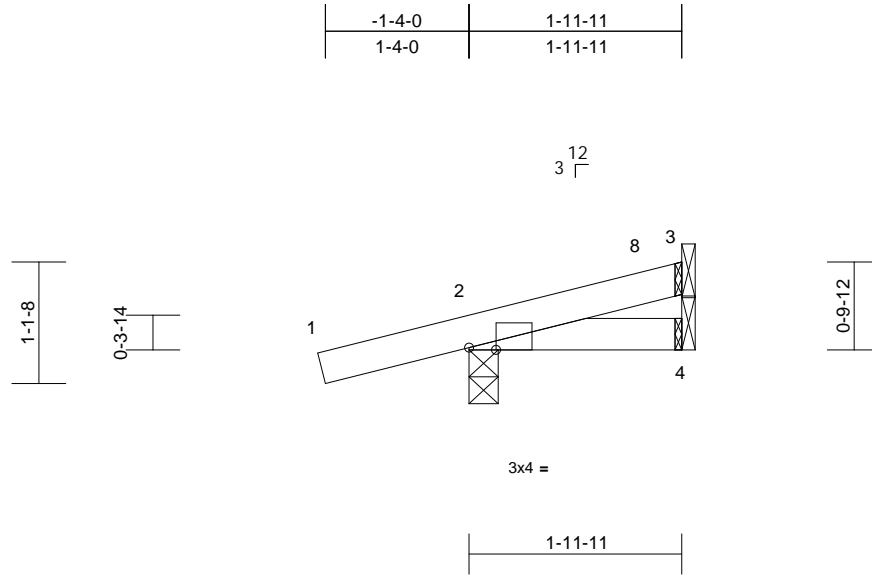
September 26, 2023

Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656386
1187-A	BJ1	Corner Jack	2	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 17:10:49
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Page: 1



Scale = 1:21.4

Plate Offsets (X, Y): [2:0-3-0,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	0.16	Vert(LL)	0.00	7	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	0.00	7	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							
										Weight: 8 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 1-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-4, 3= Mechanical, 4= Mechanical
Max Horiz 2=57 (LC 8)
Max Uplift 2=-168 (LC 8), 3=-23 (LC 12)
Max Grav 2=189 (LC 1), 3=32 (LC 1), 4=28 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/20, 2-3=-60/12
BOT CHORD 2-4=-11/58

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-7 to 1-7-9, Interior (1) 1-7-9 to 1-11-9 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 crushing capacity of 565 psi.

- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 168 lb uplift at joint 2 and 23 lb uplift at joint 3.

LOAD CASE(S) Standard



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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 26,2023

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

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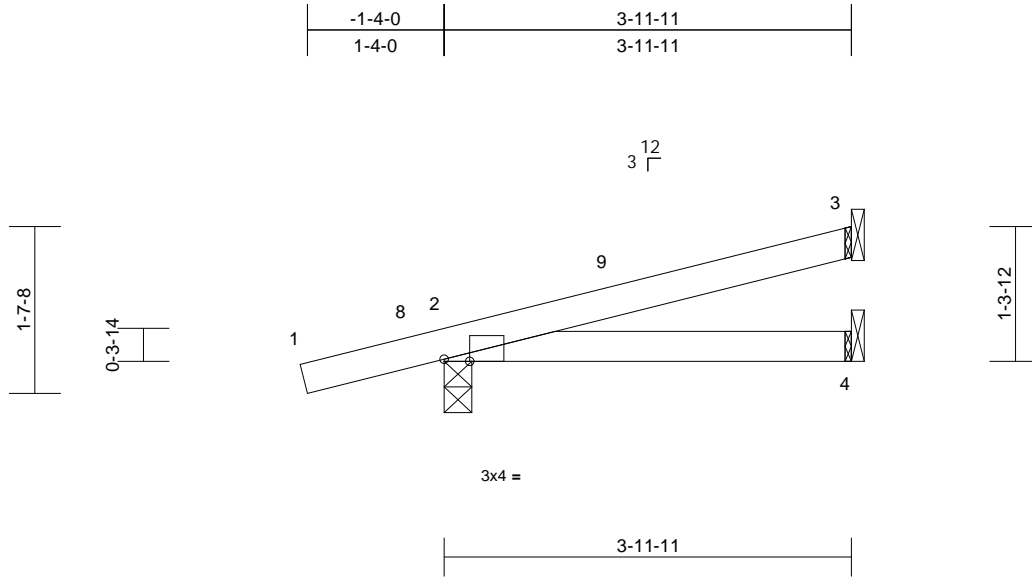
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656387
1187-A	BJ3	Corner Jack	2	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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Page: 1



Scale = 1:22.5

Plate Offsets (X, Y): [2:0-3-0,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	0.21	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	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	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 14 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 3-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-4, 3= Mechanical, 4= Mechanical
Max Horiz 2=87 (LC 8)
Max Uplift 2=-186 (LC 8), 3=-73 (LC 12), 4=-3 (LC 12)
Max Grav 2=253 (LC 1), 3=92 (LC 1), 4=67 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/20, 2-3=-124/51
BOT CHORD 2-4=-98/135

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-7 to 1-7-9, Interior (1) 1-7-9 to 3-10-15 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 2 SP No.2 crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 3, 186 lb uplift at joint 2 and 3 lb uplift at joint 4.

LOAD CASE(S) Standard

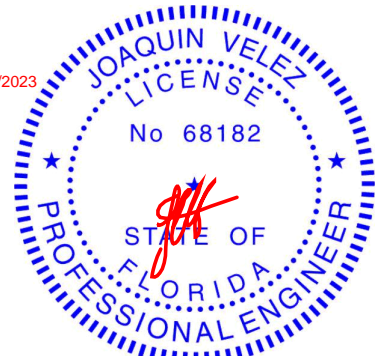


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10/22/2023



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 26,2023

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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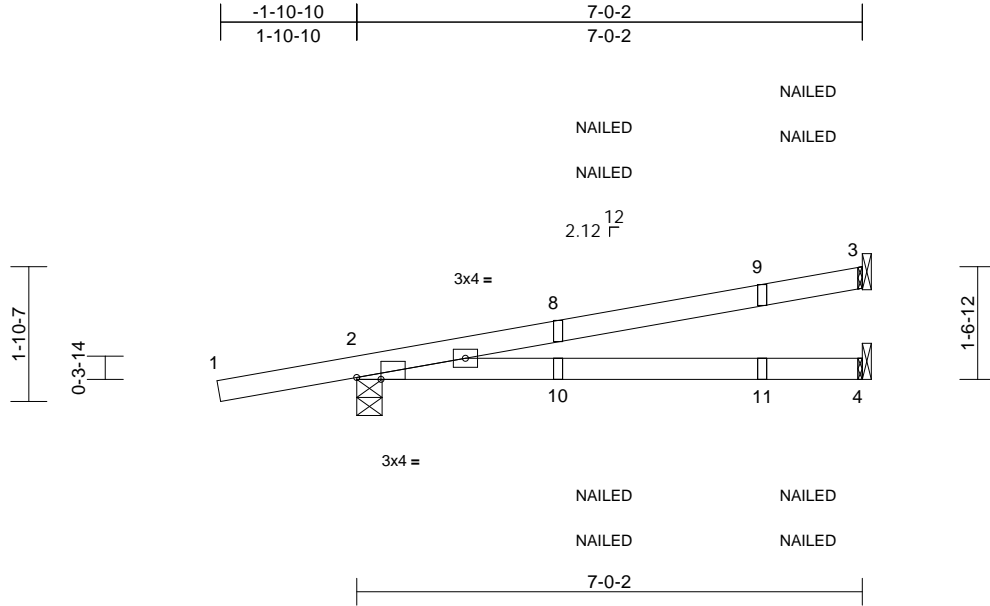
Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656388
1187-A	CJ5	Diagonal Hip Girder	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 17:10:52

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Scale = 1:31.9

Plate Offsets (X, Y): [2:0-4-1,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	0.75	Vert(LL)	0.18	4-7	>456	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.25	4-7	>329	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 24 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 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-4-4, 3= Mechanical, 4= Mechanical
Max Horiz 2=101 (LC 4)
Max Uplift 2=-296 (LC 4), 3=-141 (LC 8), 4=-29 (LC 8)
Max Grav 2=424 (LC 1), 3=191 (LC 1), 4=146 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/20, 2-3=-208/47
BOT CHORD 2-4=-77/196

NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; 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 crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 3, 296 lb uplift at joint 2 and 29 lb uplift at joint 4.
- 8) "NAILED" indicates Girder: 3-16d (0.162" x 3.5") 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: 1-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 9=-20 (F=-10, B=-10), 10=-6 (F=-3, B=-3), 11=-45 (F=-22, B=-22)

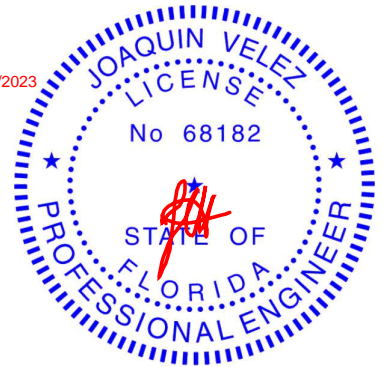


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10/22/2023



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 26,2023

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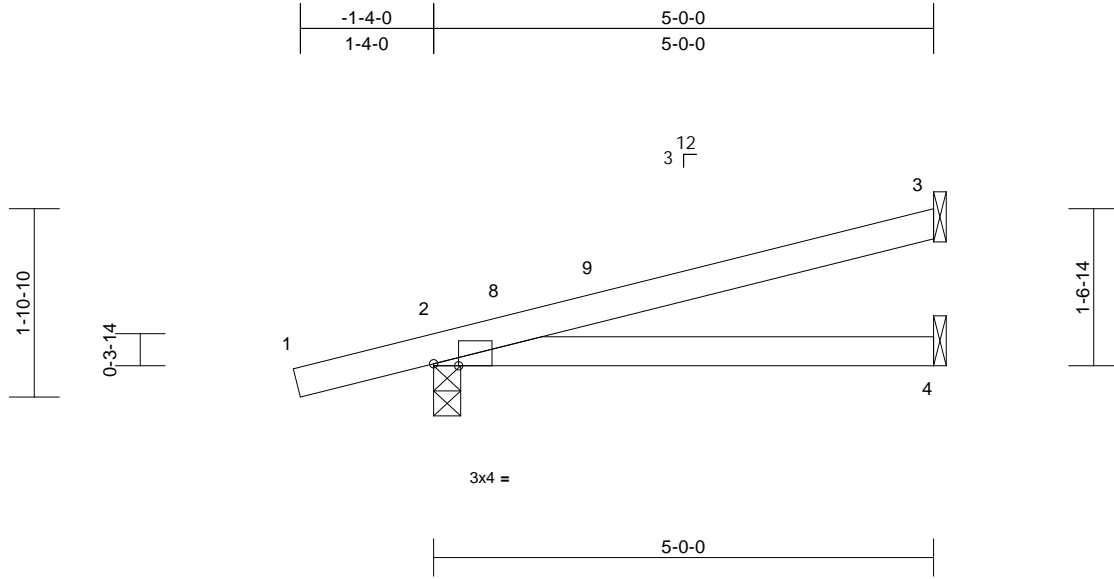
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656389
1187-A	EJ5	Jack-Open	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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Page: 1



Scale = 1:23

Plate Offsets (X, Y): [2:0-3-0,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	0.39	Vert(LL)	0.06	4-7	>950	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.06	4-7	>996	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							
										Weight: 17 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 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-4, 3= Mechanical, 4= Mechanical
Max Horiz 2=102 (LC 8)
Max Uplift 2=-201 (LC 8), 3=-98 (LC 12), 4=-4 (LC 12)
Max Grav 2=291 (LC 1), 3=122 (LC 1), 4=87 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/20, 2-3=-158/75
BOT CHORD 2-4=-140/175

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-7 to 1-7-9, Interior (1) 1-7-9 to 4-11-4 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 3, 201 lb uplift at joint 2 and 4 lb uplift at joint 4.

LOAD CASE(S) Standard

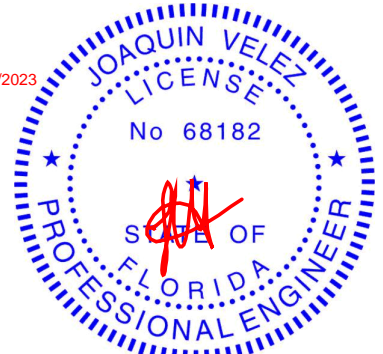


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Joaquin Velez
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10/22/2023



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 26,2023

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

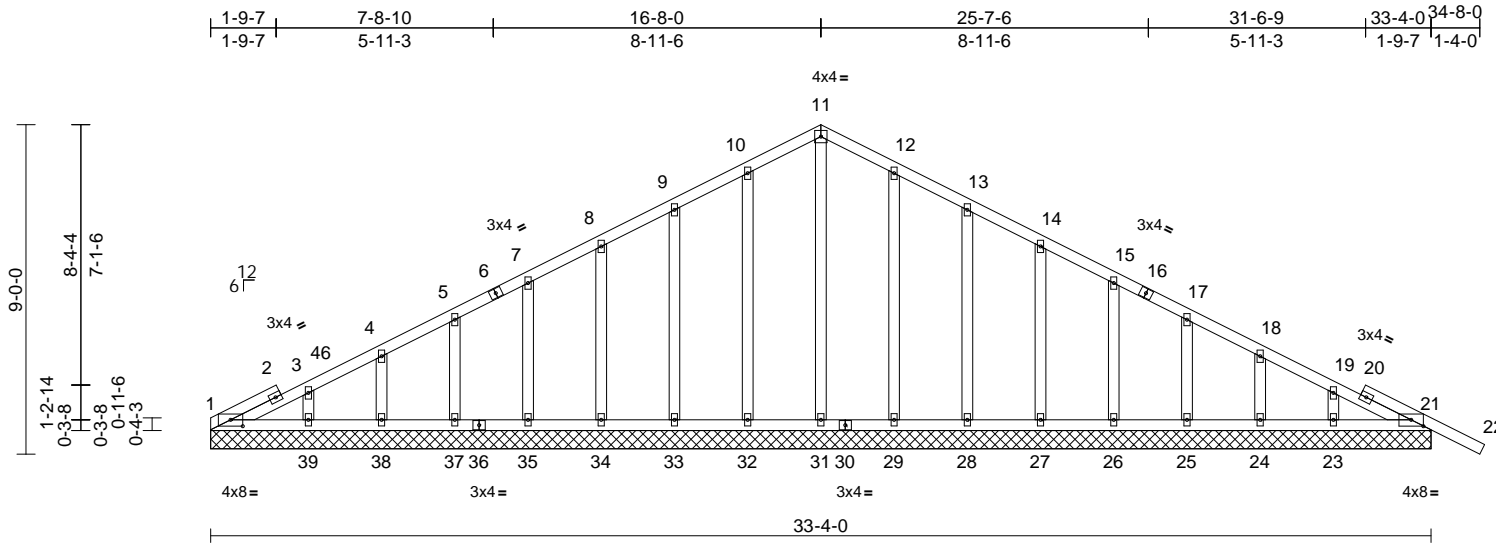
Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656390
1187-A	G1	Common Supported Gable	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 17:10:52

Page: 1

ID: SJWS2VxK8W5u8d_4iDQcuPybRrU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCdoi7J4zJC7f



Scale = 1:62.9

Plate Offsets (X, Y): [1:0-4-0,0-2-1], [21:0-4-0,0-2-1]												
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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	43	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 203 lb	FT = 20%

LUMBER		TOP CHORD		1-3=-250/103, 3-4=-200/122, 4-5=-135/141, 5-7=-88/174, 7-8=-66/212, 8-9=-91/256, 9-10=-117/333, 10-11=-143/404, 11-12=-143/404, 12-13=-117/333, 13-14=-91/256, 14-15=-65/182, 15-17=-39/107, 17-18=-50/43, 18-19=-103/38, 19-21=-154/70, 21-22=0/38	4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
BRACING		BOT CHORD		1-39=-65/239, 38-39=-65/239, 37-38=-65/239, 35-37=-65/239, 34-35=-65/239, 33-34=-65/239, 32-33=-65/239, 31-32=-65/239, 29-31=-65/239, 28-29=-65/239, 27-28=-65/239, 26-27=-65/239, 25-26=-65/239, 24-25=-65/239, 23-24=-65/239, 21-23=-65/239, 11-31=-237/35, 10-32=-128/139, 9-33=-119/152, 8-34=-120/146, 7-35=-115/146, 3-39=-143/199, 4-38=-115/146, 3-39=-143/199, 12-29=-128/139, 12-28=-128/139, 14-27=-120/146, 15-26=-120/147, 17-25=-120/146, 18-24=-119/152, 19-21=-154/70	5) All plates are 2x4 MT20 unless otherwise indicated. 6) Gable requires continuous bottom chord bearing. 7) Gable studs spaced at 2-0-0 oc. 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
REACTIONS		WEBS		11-31=-237/35, 10-32=-128/139, 9-33=-119/152, 8-34=-120/146, 7-35=-115/146, 3-39=-143/199, 4-38=-115/146, 3-39=-143/199, 12-29=-128/139, 12-28=-128/139, 14-27=-120/146, 15-26=-120/147, 17-25=-120/146, 18-24=-119/152, 19-21=-154/70	
Max Horiz		NOTES		1) Unbalanced roof live loads have been considered for this design.	
Max Uplift		FORCES		2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-4-0, Exterior(2N) 3-4-0 to 16-8-0, Corner(3R) 16-8-0 to 20-0-0, Exterior (2N) 20-0-0 to 34-8-13 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	
Max Grav		Continued on page 2		3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.	

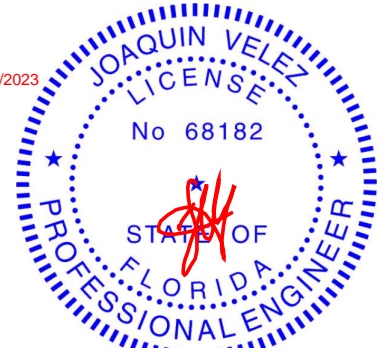


Review for Code Compliance
Universal Engineering Science

Signature
Examiner-License No.

PX2707

10/22/2023



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 26,2023

Continued on page 2

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

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

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	Anderson Home
1187-A	G1	Common Supported Gable	1	1	T31656390
					Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 17:10:52
ID: SJWs2VxK8W5u8d_4iDCquPybRrU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 1, 68 lb uplift at joint 21, 111 lb uplift at joint 32, 114 lb uplift at joint 33, 111 lb uplift at joint 34, 111 lb uplift at joint 35, 113 lb uplift at joint 37, 105 lb uplift at joint 38, 114 lb uplift at joint 39, 107 lb uplift at joint 29, 115 lb uplift at joint 28, 110 lb uplift at joint 27, 111 lb uplift at joint 26, 110 lb uplift at joint 25, 114 lb uplift at joint 24, 93 lb uplift at joint 23, 33 lb uplift at joint 1 and 68 lb uplift at joint 21.

LOAD CASE(S) Standard



Review for Code Compliance
Universal Engineering Science

Lawrence Pennell

PX2707

10/22/2023

Examiner-License No.

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

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

MiTek®

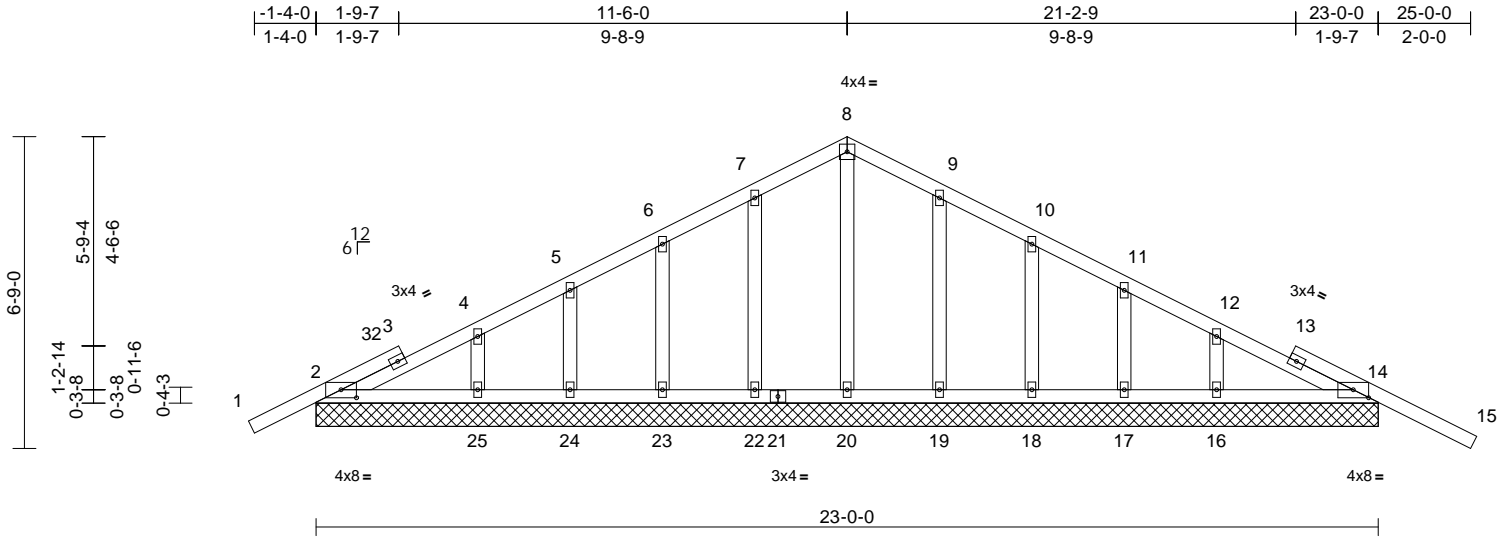
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656391
1187-A	G2	Common Supported Gable	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 17:10:53
ID:W3EFryypDlmmYHGwj3RDybrRt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:49.9

Plate Offsets (X, Y): [2:0-4-0,0-2-1], [14:0-4-0,0-2-1]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	29	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
Weight: 123 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 2=23-0-0, 14=23-0-0, 16=23-0-0, 17=23-0-0, 18=23-0-0, 19=23-0-0, 20=23-0-0, 22=23-0-0, 23=23-0-0, 24=23-0-0, 25=23-0-0, 26=23-0-0, 29=23-0-0
Max Horiz 2=177 (LC 17), 26=177 (LC 17)
Max Uplift 2=78 (LC 12), 14=155 (LC 13), 16=114 (LC 13), 17=112 (LC 13), 18=112 (LC 13), 19=114 (LC 13), 22=115 (LC 12), 23=114 (LC 12), 24=101 (LC 12), 25=140 (LC 12), 26=78 (LC 12), 29=155 (LC 13)
Max Grav 2=221 (LC 1), 14=287 (LC 24), 16=208 (LC 24), 17=146 (LC 24), 18=162 (LC 1), 19=168 (LC 24), 20=194 (LC 22), 22=167 (LC 23), 23=166 (LC 1), 24=131 (LC 23), 25=245 (LC 1), 26=221 (LC 1), 29=287 (LC 24)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/38, 2-4=147/103, 4-5=75/118, 5-6=42/148, 6-7=62/215, 7-8=89/289, 8-9=89/289, 9-10=62/215, 10-11=35/140, 11-12=27/62, 12-14=135/64, 14-15=0/55

BOT CHORD 2-25=59/202, 24-25=59/202, 23-24=59/202, 22-23=59/202, 20-22=59/202, 19-20=59/202, 18-19=59/202, 17-18=59/202, 16-17=59/202, 14-16=59/219
WEBS 8-20=154/0, 7-22=128/147, 6-23=122/151, 5-24=105/140, 4-25=169/180, 9-19=129/147, 10-18=120/149, 11-17=112/155, 12-16=151/159

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 1-4-13 to 1-7-3, Exterior(2N) 1-7-3 to 11-6-0, Corner(3R) 11-6-0 to 14-6-0, Exterior (2-0-0 to 25-0-0) Zone, cantilever left and right ex 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 roof 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 2x4 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 crushing capacity of 565 psi.

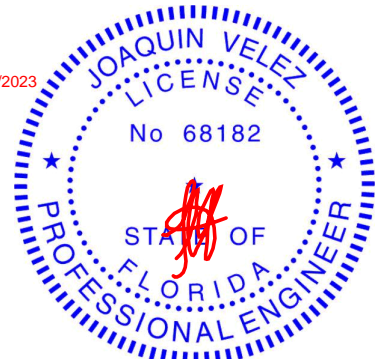
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 2, 155 lb uplift at joint 14, 115 lb uplift at joint 22, 114 lb uplift at joint 23, 101 lb uplift at joint 24, 140 lb uplift at joint 25, 114 lb uplift at joint 19, 112 lb uplift at joint 18, 112 lb uplift at joint 17, 114 lb uplift at joint 16, 78 lb uplift at joint 2 and 155 lb uplift at joint 14.

LOAD CASE(S) Standard



Review for Code Compliance
Universal Engineering Science

10/22/2023



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 26,2023

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®

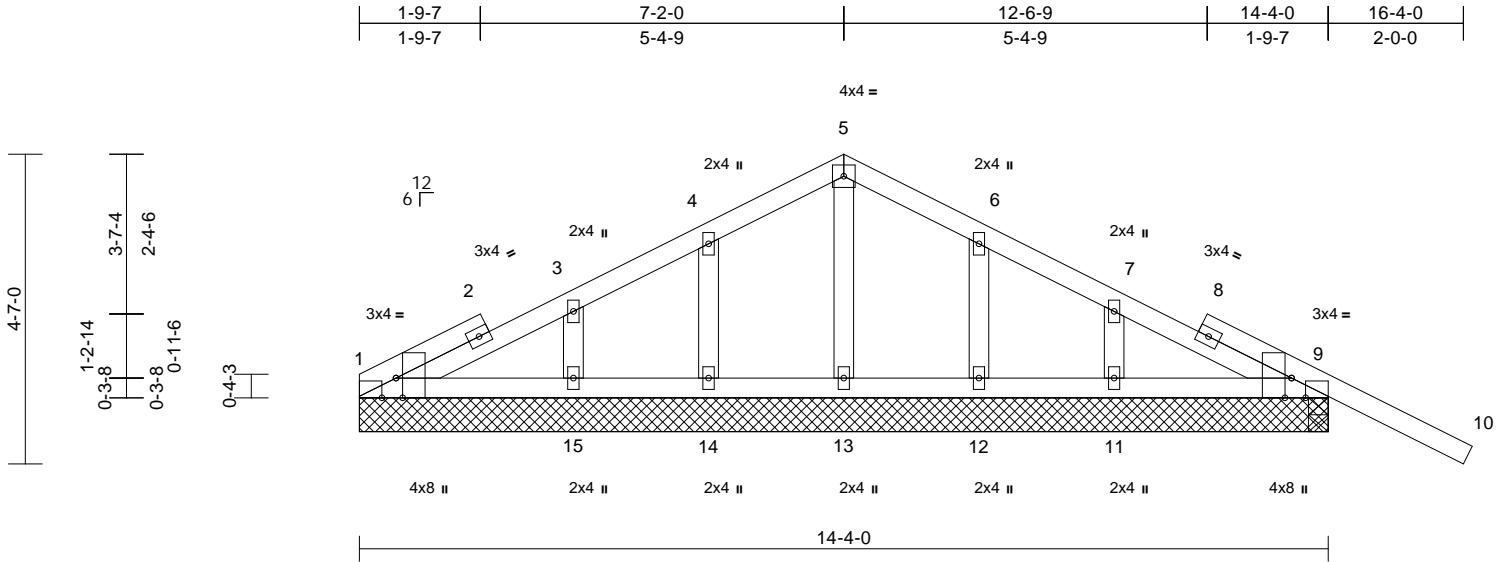
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656392
1187-A	G3	Common	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 17:10:53
ID:W3EFryyvpDlmmYHGwj3RdybRrT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcD0i7J4zJC?f

Page: 1



Scale = 1:34.1

Plate Offsets (X, Y): [1:0-3-8,Edge], [1:0-2-8,Edge], [9:0-3-8,Edge], [9:0-2-8,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	0.52	Vert(LL)	0.01	15-18	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.01	15-18	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	19	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
										Weight: 67 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 1=14-4-0, 9=14-4-0, 11=14-4-0, 12=14-4-0, 13=14-4-0, 14=14-4-0, 15=14-4-0, 16=14-4-0, 19=14-4-0
Max Horiz 1=-139 (LC 17), 16=-139 (LC 17)
Max Uplift 1=-36 (LC 13), 9=-184 (LC 13), 11=-86 (LC 13), 12=-127 (LC 13), 14=-103 (LC 12), 15=-158 (LC 12), 16=-36 (LC 13), 19=-184 (LC 13)
Max Grav 1=106 (LC 1), 9=294 (LC 24), 11=156 (LC 1), 12=172 (LC 24), 13=161 (LC 22), 14=140 (LC 23), 15=249 (LC 1), 16=106 (LC 1), 19=294 (LC 24)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-73/81, 3-4=-38/117, 4-5=-63/209, 5-6=-63/211, 6-7=-32/107, 7-9=-293/125, 9-10=0/59
BOT CHORD 1-15=-43/174, 14-15=-43/174, 13-14=-43/174, 12-13=-43/174, 11-12=-43/174, 9-11=-135/398
WEBS 5-13=-117/0, 4-14=-117/187, 3-15=-163/253, 6-12=-130/213, 7-11=-141/177

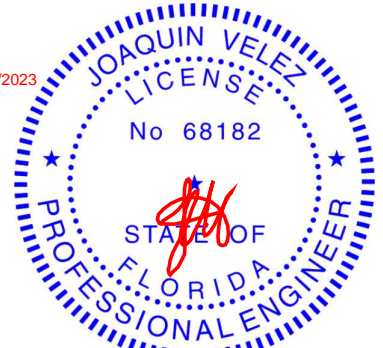
NOTES

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

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-2-0, Exterior(2N) 3-2-0 to 7-2-0, Corner(3R) 7-2-0 to 10-2-0, Exterior(2N) 10-2-0 to 16-4-13 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 studs spaced at 2-0-0 oc.
- This truss has been designed for a 0-0-0 bottom chord load nonconcurrent with any other live loads.
- * This truss has been designed for a 10-0-0 psf 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 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1, 184 lb uplift at joint 9, 103 lb uplift at joint 14, 158 lb uplift at joint 15, 127 lb uplift at joint 12, 86 lb uplift at joint 11, 36 lb uplift at joint 1 and 184 lb uplift at joint 9.

LOAD CASE(S) Standard

Review for Code Compliance
Universal Engineering Science
10/22/2023
PX2707



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 26, 2023

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®

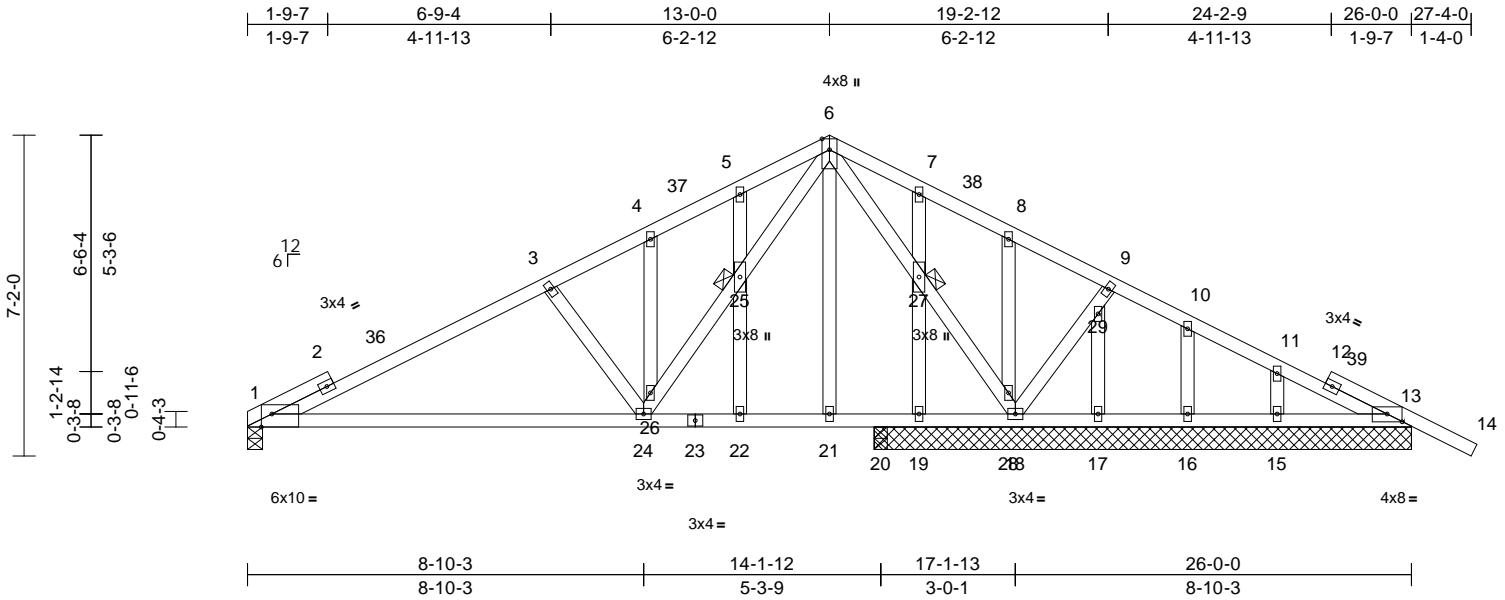
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656393
1187-A	G4	Common Structural Gable	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 17:10:54
ID:OsbU4mGJcJsgLVn7EoqCmhybNP0-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCD0i7J4zJC?f

Page: 1



Scale = 1:51.5

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

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	0.64	Vert(LL)	0.16	24-32	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.27	24-32	>622	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.01	1	n/a	n/a		
BCDL	10.0	Code	FBC2020/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
OTHERS	2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-1-1 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
9-9-6 oc bracing: 1-24.

JOINTS 1 Brace at Jt(s): 25, 27

REACTIONS	(size)	
Max Horiz	1=199 (LC 13)	
Max Uplift	1=224 (LC 12), 13=83 (LC 13), 15=121 (LC 13), 16=82 (LC 13), 17=75 (LC 23), 18=427 (LC 12), 19=131 (LC 23), 20=187 (LC 12), 33=83 (LC 13)	
Max Grav	1=514 (LC 1), 13=162 (LC 24), 15=195 (LC 24), 16=127 (LC 24), 17=90 (LC 12), 18=883 (LC 1), 19=65 (LC 24), 20=442 (LC 1), 33=162 (LC 24)	

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-3=689/327, 3-4=518/295, 4-5=451/335, 5-6=451/392, 6-7=94/427, 7-8=140/455, 8-9=175/445, 9-10=137/319, 10-11=167/312, 11-13=197/314, 13-14=0/38
BOT CHORD	1-24=319/613, 22-24=84/240, 21-22=84/240, 20-21=85/241, 19-20=85/241, 18-19=85/241, 17-18=273/251, 16-17=273/251, 15-16=273/251, 13-15=273/251

WEBS

6-27=656/324, 27-28=663/326, 18-28=740/370, 18-29=210/167, 9-29=139/136, 24-26=351/672, 25-26=420/686, 6-25=440/715, 3-24=388/333, 6-21=147/70, 5-25=122/106, 22-25=87/82, 4-26=1/69, 7-27=185/161, 19-27=176/166, 8-28=113/134, 17-29=68/107, 10-16=92/104, 11-15=137/133

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-0 to 3-2-0, Interior (1) 3-2-0 to 12-10-14, Exterior(2R) 12-10-14 to 15-10-14, Interior 15-10-14 to 27-4-0 3 zones, cantilever left and right; 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 roof 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 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 1, 427 lb uplift at joint 18, 131 lb uplift at joint 19, 75 lb uplift at joint 17, 82 lb uplift at joint 16, 121 lb uplift at joint 15, 83 lb uplift at joint 13, 187 lb uplift at joint 20 and 83 lb uplift at joint 13.

LOAD CASE(S) Standard



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Universal Engineering Science

10/22/2023



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 26,2023

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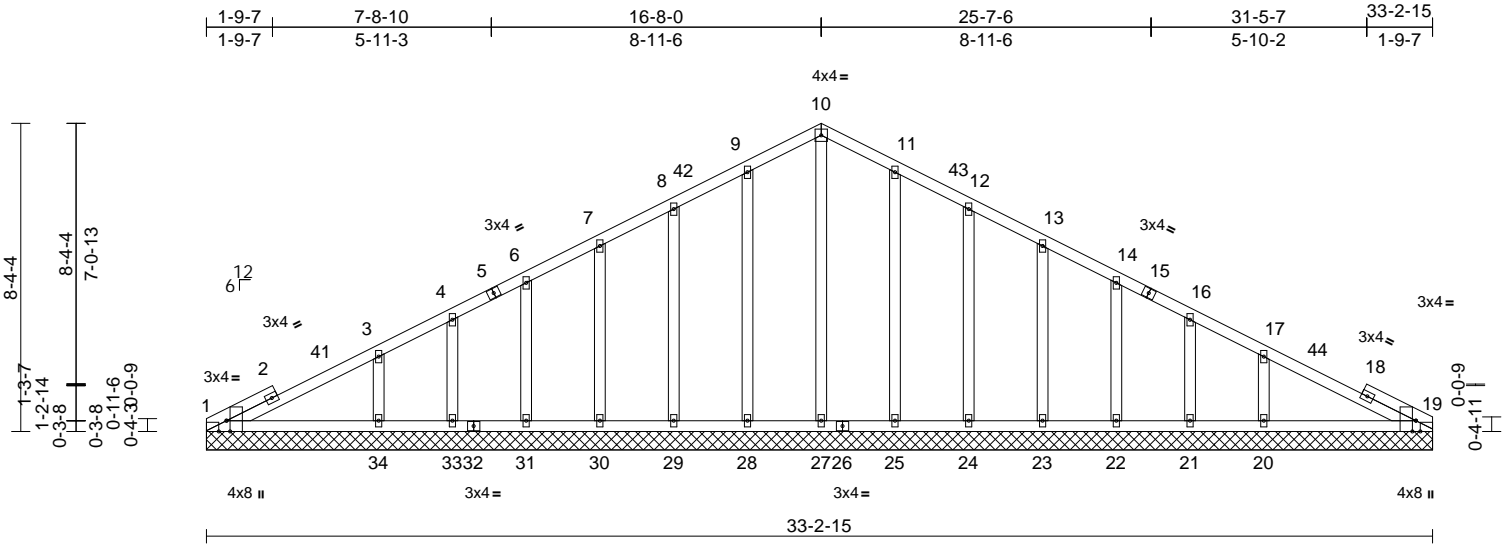
Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656394
1187-A	G5	Common Supported Gable	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 17:10:54

Page: 1

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Scale = 1:62.5									
Plate Offsets (X, Y): [1:0-3-8,Edge], [1:0-2-8,Edge], [19:0-3-8,Edge], [19:0-1-7,Edge]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	n/a	-	n/a
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(TL)	n/a	-	999
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	0.01	19	n/a
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS					
Weight: 198 lb FT = 20%									

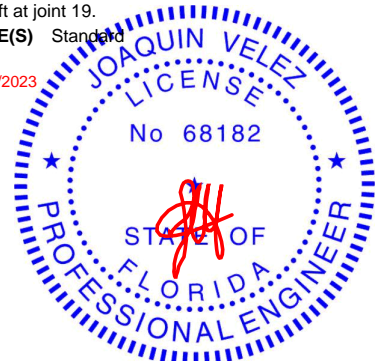
LUMBER		TOP CHORD		1-3=-270/150, 3-4=-155/121, 4-6=-103/148, 6-7=-47/168, 7-8=-41/205, 8-9=-68/246, 9-10=-95/280, 10-11=-95/268, 11-12=-68/201, 12-13=-41/138, 13-14=-17/92, 14-16=-15/81, 16-17=-66/57, 17-19=-183/109		6) Gable requires continuous bottom chord bearing.	
TOP CHORD		2x4 SP No.2		31-33=-98/216, 30-31=-98/216, 29-30=-98/216, 28-29=-98/216, 27-28=-98/216, 25-27=-98/216, 24-25=-98/216, 23-24=-98/216, 22-23=-98/216, 21-22=-98/216, 20-21=-98/216, 19-20=-98/216		7) Gable studs spaced at 2-0-0 oc.	
BOT CHORD		2x4 SP No.2		10-27=-197/0, 9-28=-130/146, 8-29=-119/133, 7-30=-118/129, 6-31=-133/140, 4-33=-66/96, 3-34=-247/218, 11-25=-130/146, 12-24=-119/135, 13-23=-119/135, 14-22=-119/135, 16-21=-68/93, 17-20=-244/224		8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
OTHERS		2x4 SP No.2				9) * 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.	
BRACING		TOP CHORD		WEBS		10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.	
TOP CHORD		Structural wood sheathing directly applied or 10-0-0 oc purlins.				11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 1, 2 lb uplift at joint 19, 112 lb uplift at joint 28, 114 lb uplift at joint 29, 108 lb uplift at joint 30, 124 lb uplift at joint 31, 59 lb uplift at joint 33, 226 lb uplift at joint 34, 108 lb uplift at joint 25, 115 lb uplift at joint 24, 107 lb uplift at joint 23, 125 lb uplift at joint 22, 56 lb uplift at joint 21, 234 lb uplift at joint 20, 35 lb uplift at joint 1 and 2 lb uplift at joint 19.	
BOT CHORD		Rigid ceiling directly applied or 6-0-0 oc bracing.				LOAD CASE(S) Standard	
REACTIONS		(size)				Joaquin Velez PE No.68182	
Max Horiz		1=211 (LC 12), 35=211 (LC 12)				MiTek Inc. DBA MiTek USA FL Cert 6634	
Max Uplift		1=-35 (LC 13), 19=-2 (LC 13), 20=-234 (LC 13), 21=-56 (LC 13), 22=-125 (LC 13), 23=-107 (LC 13), 24=-115 (LC 13), 25=-108 (LC 13), 28=-112 (LC 12), 29=-114 (LC 12), 30=-108 (LC 12), 31=-124 (LC 12), 33=-59 (LC 12), 34=-226 (LC 12), 35=-35 (LC 13), 38=-2 (LC 13)				16023 Swingley Ridge Rd. Chesterfield, MO 63017	
Max Grav		1=140 (LC 23), 19=139 (LC 24), 20=369 (LC 24), 21=66 (LC 1), 22=183 (LC 24), 23=155 (LC 1), 24=159 (LC 24), 25=169 (LC 24), 27=237 (LC 22), 28=170 (LC 23), 29=159 (LC 22), 30=154 (LC 1), 31=185 (LC 23), 33=61 (LC 1), 34=377 (LC 23), 35=140 (LC 23), 38=139 (LC 24)				Date:	
FORCES		(lb) - Maximum Compression/Maximum Tension				September 26,2023	



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NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16, Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-5-1, Interior (1) 3-5-1 to 16-8-0, Exterior(2R) 16-8-0 to 20-1-1, Interior (1) 20-1-1 to 33-2-15 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
- 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 2x4 MT20 unless otherwise indicated.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

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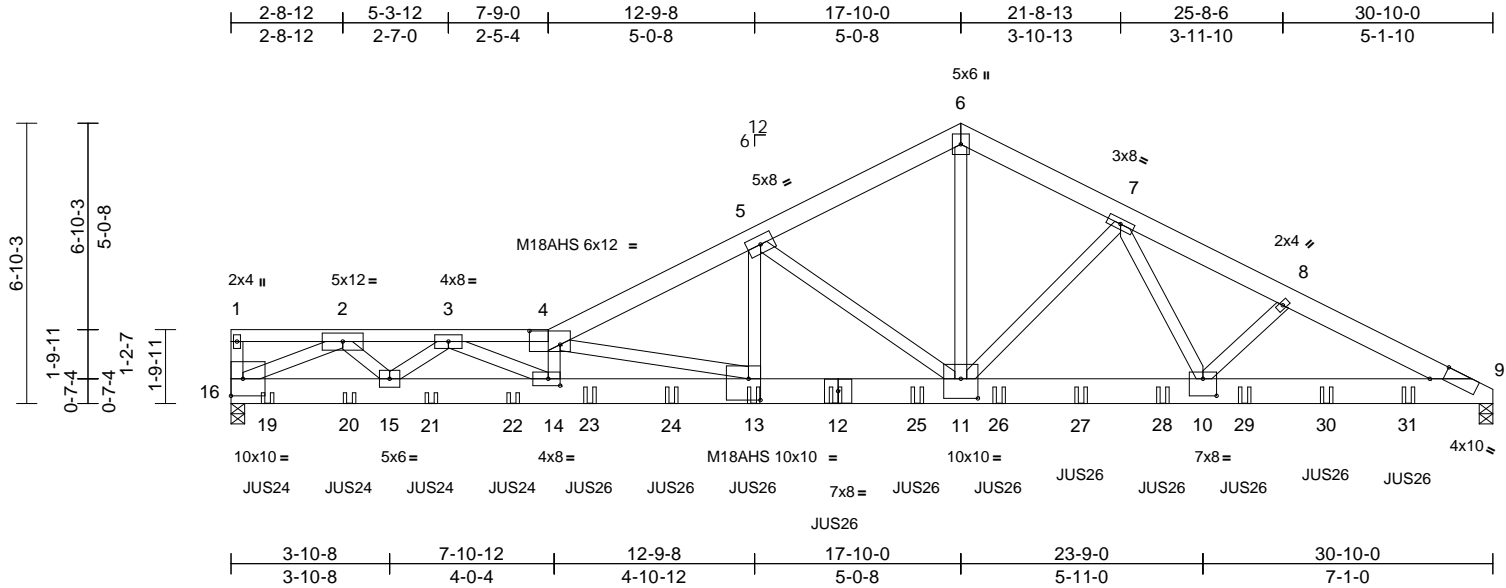
Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656395
1187-A	GR1	Roof Special Girder	1	3	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 17:10:55

Page: 1

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Scale = 1:56.3

Plate Offsets (X, Y): [4:0-9-0,0-4-0], [9:0-3-8,Edge], [10:0-4-0,0-5-0], [11:0-5-0,0-5-12], [13:0-3-8,0-6-4], [14:0-3-8,0-2-0]

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	0.90	0.55	13-14	>666	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.87	-0.79	13-14	>461	180	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	0.76	0.12	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
Weight: 685 lb FT = 20%											

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 1-4:2x4 SP DSS
BOT CHORD 2x8 SP DSS
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 9=0-4-0, 16=0-4-0
Max Horiz 16=183 (LC 23)
Max Uplift 9=3595 (LC 9), 16=3472 (LC 8)
Max Grav 9=8417 (LC 2), 16=7714 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-16=-280/151, 1-2=-407/190,
2-3=-1851/8263, 3-4=-3123/13943,
4-5=-18672/8294, 5-6=-11705/5121,
6-7=-11669/5141, 7-8=-16218/6951,
8-9=-16461/7047
BOT CHORD 15-16=-5839/12823, 14-15=-10599/23489,
13-14=-13821/30800, 11-13=-7508/16845,
10-11=-5250/12475, 9-10=-6263/14822
WEBS 4-14=-4270/1872, 4-13=-14452/6538,
5-13=-3273/7444, 5-11=-8220/3848,
6-11=-4361/10057, 7-11=-3041/1450,
7-10=-1958/4678, 8-10=-562/394,
2-15=-3879/8818, 2-16=-14027/6315,
3-15=-6848/3106, 3-14=-3866/8753

NOTES

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

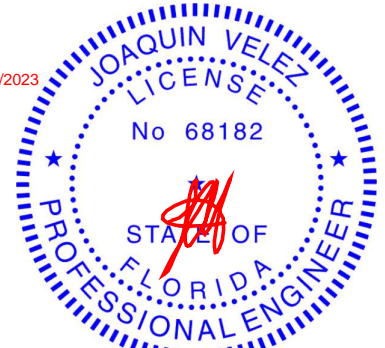
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; 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.
- All are MT20, unless otherwise indicated.
- This has been designed for a 10.0 psf bottom chord live load nonconforming with higher live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangular 3'-0"-0" x 4'-0"-0" wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP DSS crushing capacity of 660 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3472 lb uplift at joint 16 and 3595 lb uplift at joint 9.
- Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-10-12 from the left end to 6-10-12 to connect truss(es) to back face of bottom chord.
- Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-9-4 from the left end to 28-9-4 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-6=-60, 6-9=-60, 9-16=-20
Concentrated Loads (lb)
Vert: 12=-988 (B), 13=-988 (B), 19=-650 (B), 20=-648 (B), 21=-652 (B), 22=-652 (B), 23=-973 (B), 24=-973 (B), 25=-988 (B), 26=-988 (B), 27=-988 (B), 28=-988 (B), 29=-988 (B), 30=-988 (B), 31=-988 (B)

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10/22/2023
Example License No.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

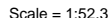
September 26,2023

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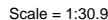
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Plate Offsets (X, Y): [2:0-3-0,Edge]

Weight: 32 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, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-4, 5=0-4-0
 Max Horiz 2=89 (LC 5)
 Max Uplift 2=-285 (LC 4), 5=-252 (LC 4)
 Max Grav 2=427 (LC 1), 5=484 (LC 1)

FORCES

TOP CHORD 1-2=0/22, 2-3=588/309, 3-4=25/19,
4-5=46/38
BOT CHORD 2-6=284/546, 5-6=293/581
WEBS 3-6=81/320, 3-5=739/396

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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 crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 285 lb uplift at joint 2 and 252 lb uplift at joint 5.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 216 lb down and 179 lb up at 5-0-0 on top chord, and 141 lb down and 57 lb up at 5-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) 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)
1-3=60, 3-4=60, 2-5=20
Concentrated Loads (lb)
Vert: 6=141 (B), 3=169 (B)

"Special" indicates special hanger(s) or other connection device(s) required at location(s) shown. The design/selection of such special connection device(s) is the responsibility of others. This applies to all applicable truss designs in this job.

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Lawrence Parnell
Examiner-License No.

PX2707

10/22/2023



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 26, 2023



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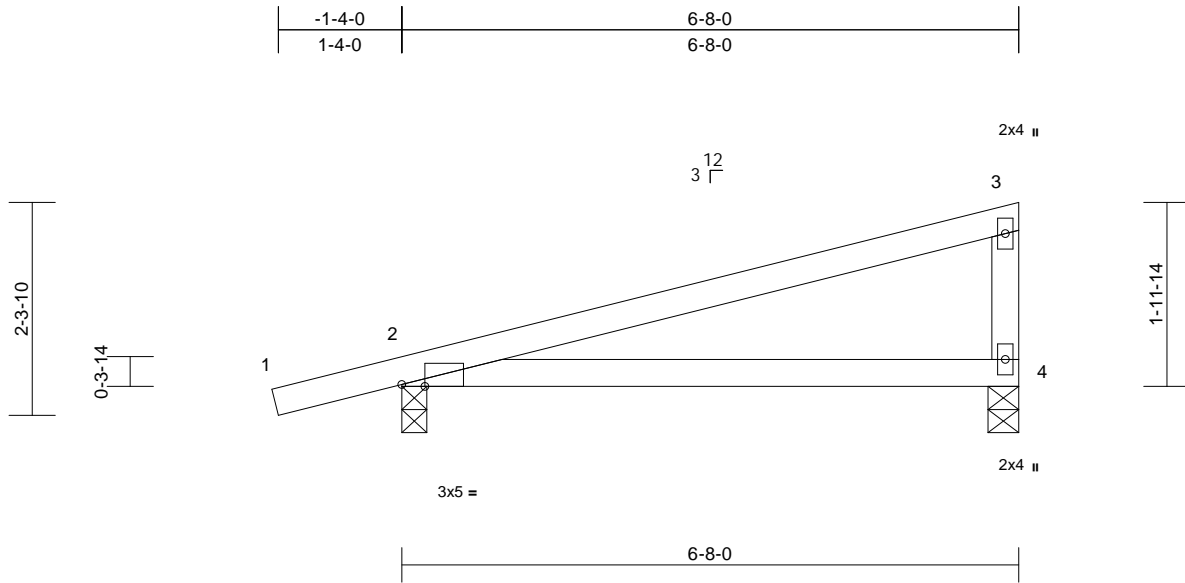
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656398
1187-A	M1	Monopitch	4	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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Page: 1



Scale = 1:24.9

Plate Offsets (X, Y): [2:0-3-0,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	0.63	Vert(LL)	0.16	4-7	>494	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.18	4-7	>433	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							
										Weight: 24 lb	FT = 20%

LUMBER

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

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 4 and 233 lb uplift at joint 2.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-4, 4=0-4-0
Max Horiz 2=115 (LC 11)
Max Uplift 2=233 (LC 8), 4=132 (LC 12)
Max Grav 2=352 (LC 1), 4=252 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/20, 2-3=-182/78, 3-4=-186/267
BOT CHORD 2-4=-161/242

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-7 to 1-7-9, Interior (1) 1-7-9 to 6-6-4 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

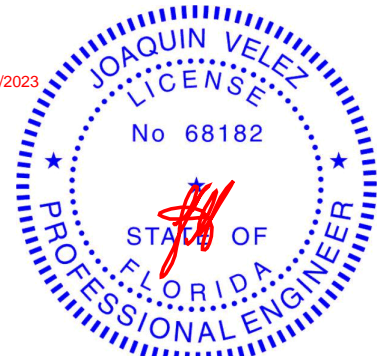


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PX2707

10/22/2023



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 26,2023

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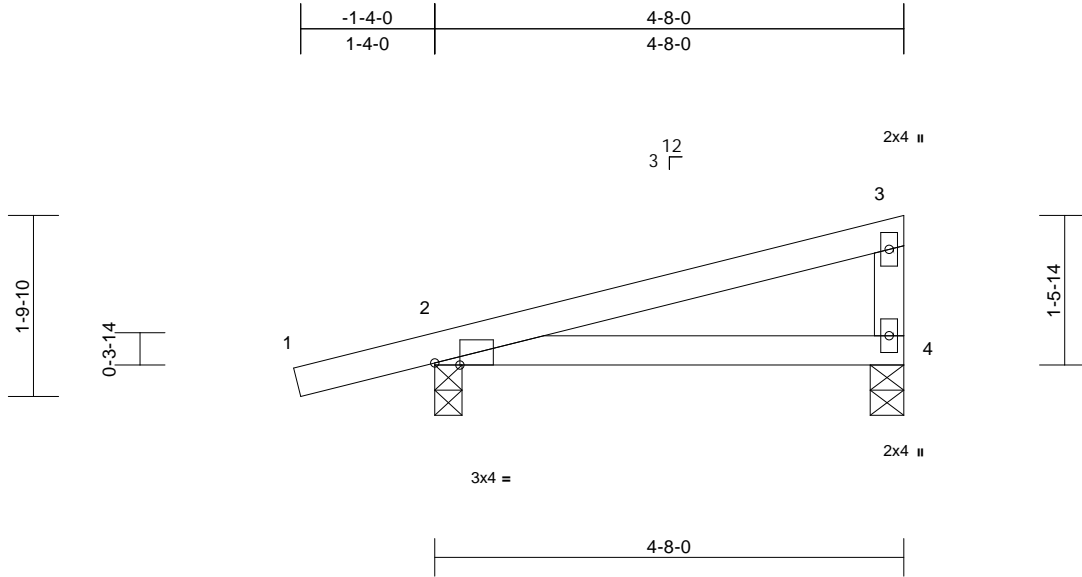
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Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656399
1187-A	M2	Monopitch	2	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 17:10:56
ID:OiddTAzag7LcOw7TpeEI_qybRrS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:22.9

Plate Offsets (X, Y): [2:0-3-0,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	0.24	Vert(LL)	0.03	4-7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.04	4-7	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							
										Weight: 18 lb	FT = 20%

LUMBER

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

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 4 and 199 lb uplift at joint 2.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-4, 4=0-4-0
Max Horiz 2=83 (LC 11)
Max Uplift 2=199 (LC 8), 4=87 (LC 12)
Max Grav 2=275 (LC 1), 4=168 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/20, 2-3=132/56, 3-4=134/174
BOT CHORD 2-4=75/173

NOTES

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-7 to 1-7-9, Interior (1) 1-7-9 to 4-6-4 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

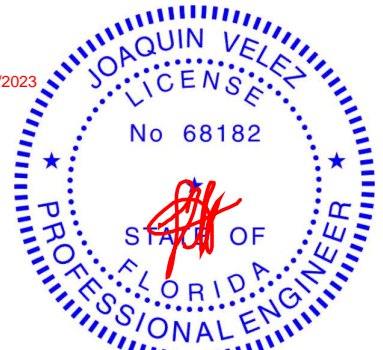


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PX2707

10/22/2023



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

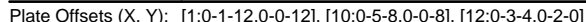
September 26,2023

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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Page: 1LUMBER

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 3-1-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 3-10-14 oc bracing.

REACTIONS

(size) 1= Mechanical, 10=0-3-4, 12=0-4-0
 Max Horiz 1=254 (LC 17)
 Max Uplift 1=284 (LC 12), 10=-696 (LC 23),
 12=-1012 (LC 12)
 Max Grav 1=668 (LC 1), 10=361 (LC 12),
 12=2655 (LC 1)

FORCES

TOP CHORD 1-2=-2601/1271, 2-4=-2415/1238,
4-5=-1095/465, 5-6=-119/456, 6-7=-137/367,
7-9=-942/2208, 9-10=-877/1899, 10-11=0/38
BOT CHORD 1-15=-1299/2404, 14-15=-522/1341,
13-14=-148/321, 12-13=-2123/1048,
10-12=-1624/835
WEBS 2-15=-270/307, 4-15=-702/1093,
4-14=-549/491, 5-14=-572/1312,
5-13=-960/457, 6-13=-246/265,
7-13=-707/1899, 7-12=-1679/678,
9-12=-354/275

NOTES

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

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior
zone and C-C Exterior(2E) 0-0-0 to 3-4-1, Interior (1)
3-4-1 to 16-8-0, Exterior(2R) 16-8-0 to 20-0-1, Interior
(1) 20-0-1 to 34-8-13 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) All plates are MT20 plates 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'-0" all by 2'-0" is shown. If the bottom
chord has any other members, see the
Notes for details.
- 7) Bearings are assumed to be 12" joint 12" SP No.2
crushing capacity of 565 psi, joint 10" SP No.2 crushing
capacity of 565 psi.
- 8) Refer to drawings for truss to truss connections.
- 9) Provide mechanical connections (if any) of truss to
bearing plate capable of withstanding 1012 lb uplift at
joint 12, 696 lb uplift at joint 10 and 284 lb uplift at joint
1

LOAD CASE(S) Standard



September 26, 2023



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

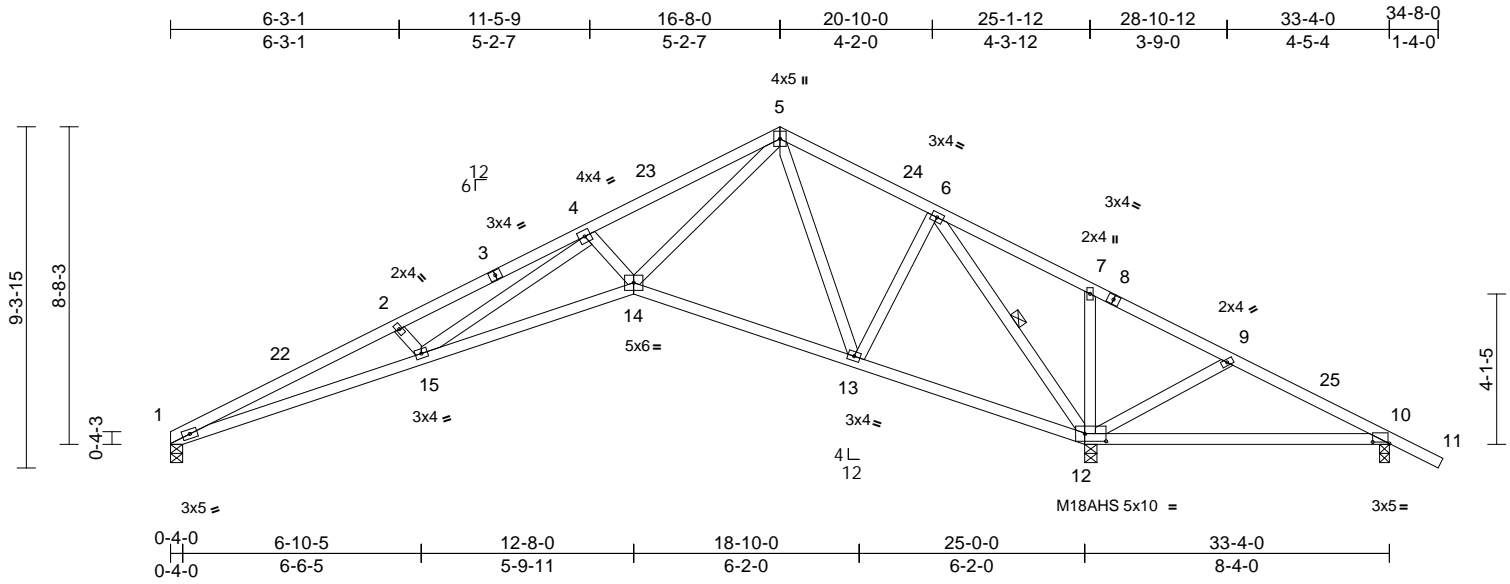
MiTek[®]
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656401
1187-A	T2	Roof Special	6	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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Page: 1



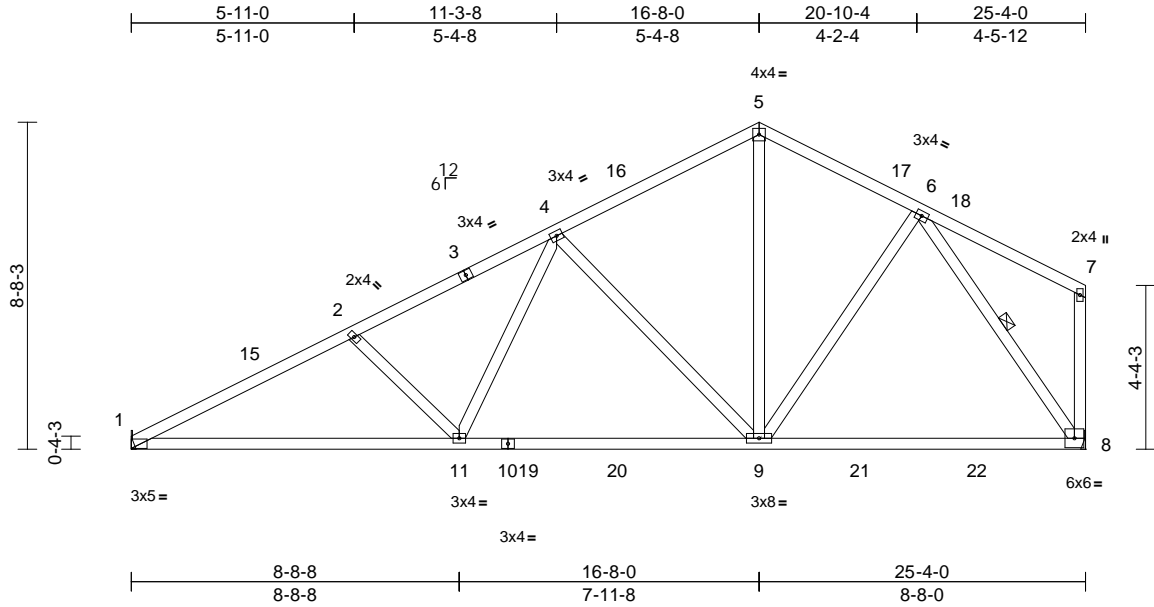
Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656402
1187-A	T3	Common	5	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 17:10:57

Page: 1

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.22	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.37	8-9	>808	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 145 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 3-5-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-5 oc bracing.
WEBS 1 Row at midpt 6-8

REACTIONS (size) 1= Mechanical, 8= Mechanical
Max Horiz 1=334 (LC 11)
Max Uplift 1=-434 (LC 12), 8=-363 (LC 12)
Max Grav 1=1097 (LC 2), 8=1126 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1922/816, 2-4=-1722/749,
4-5=-952/541, 5-6=-937/535, 6-7=-200/210,
7-8=-170/167

BOT CHORD 1-11=-943/1716, 9-11=-687/1259,
8-9=-390/620
WEBS 2-11=-346/347, 4-11=-196/592,
4-9=-649/485, 5-9=-259/569, 6-9=-53/362,
6-8=-1039/547

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-5-10, Interior (1) 3-5-10 to 16-8-0, Exterior(2R) 16-8-0 to 20-1-10, Interior (1) 20-1-10 to 25-2-4 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, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 434 lb uplift at joint 1 and 363 lb uplift at joint 8.

LOAD CASE(S) Standard

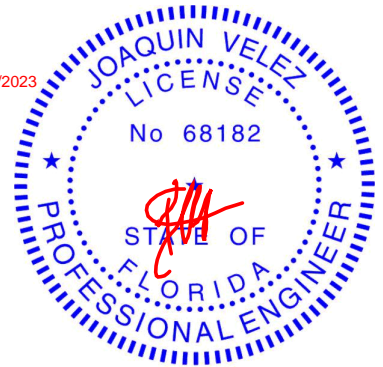


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PX2707

10/22/2023



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 26, 2023

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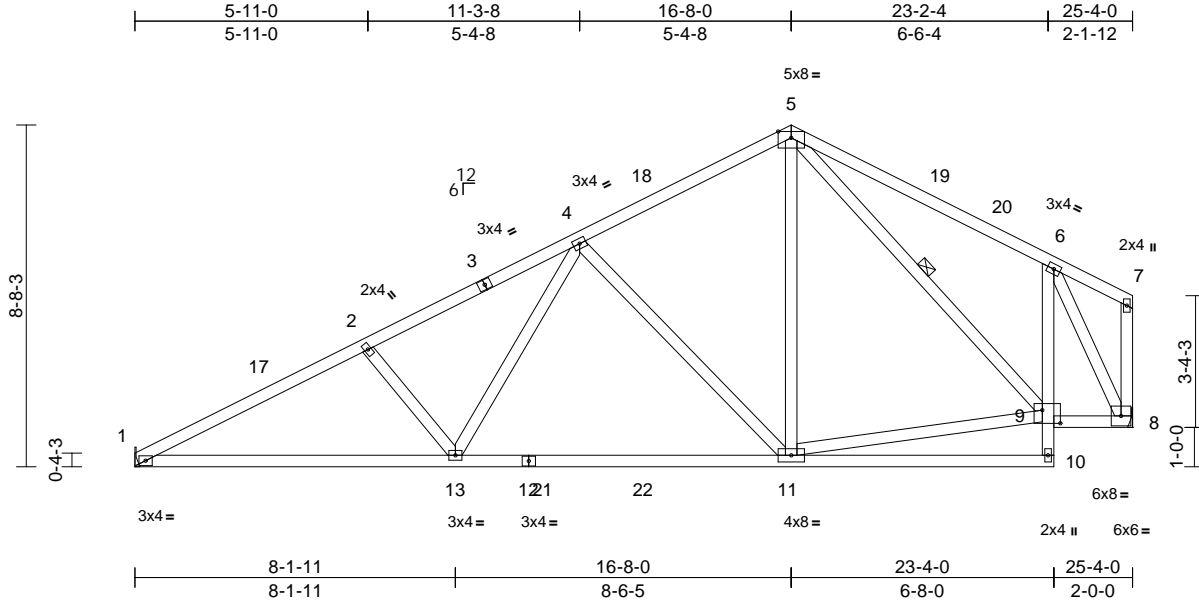
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656403
1187-A	T4	Roof Special	4	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 17:10:58
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Page: 1



Scale = 1:58.5

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

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)	-0.17	11-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.28	11-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS								
Weight: 159 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 3-8-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-1-1 oc bracing.

WEBS 1 Row at midpt 5-9

REACTIONS (size) 1= Mechanical, 8= Mechanical
Max Horiz 1=309 (LC 9)
Max Uplift 1=434 (LC 12), 8=363 (LC 12)
Max Grav 1=1091 (LC 2), 8=1088 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=1934/808, 2-4=1770/775,
4-5=936/544, 5-6=691/543, 6-7=98/102,
7-8=62/57

BOT CHORD 1-13=901/1712, 11-13=650/1224,
10-11=671, 9-10=0/110, 6-9=86/564,
8-9=330/534

WEBS 2-13=331/339, 4-13=225/647,
4-11=641/482, 5-11=231/659,
9-11=371/726, 5-9=402/103, 6-8=1198/611

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-5-10, Interior (1) 3-5-10 to 16-8-0, Exterior(2R) 16-8-0 to 20-1-10, Interior (1) 20-1-10 to 25-2-4 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, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 434 lb uplift at joint 1 and 363 lb uplift at joint 8.

LOAD CASE(S) Standard

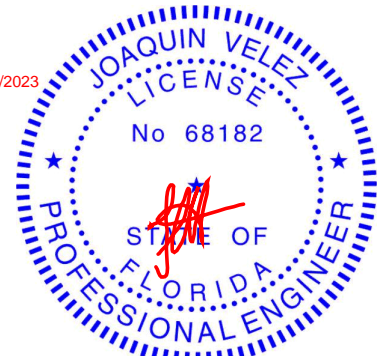


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Universal Engineering Science

Lawrence Pennell
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10/22/2023



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 26,2023

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MiTek®

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

Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656404
1187-A	T5	Roof Special	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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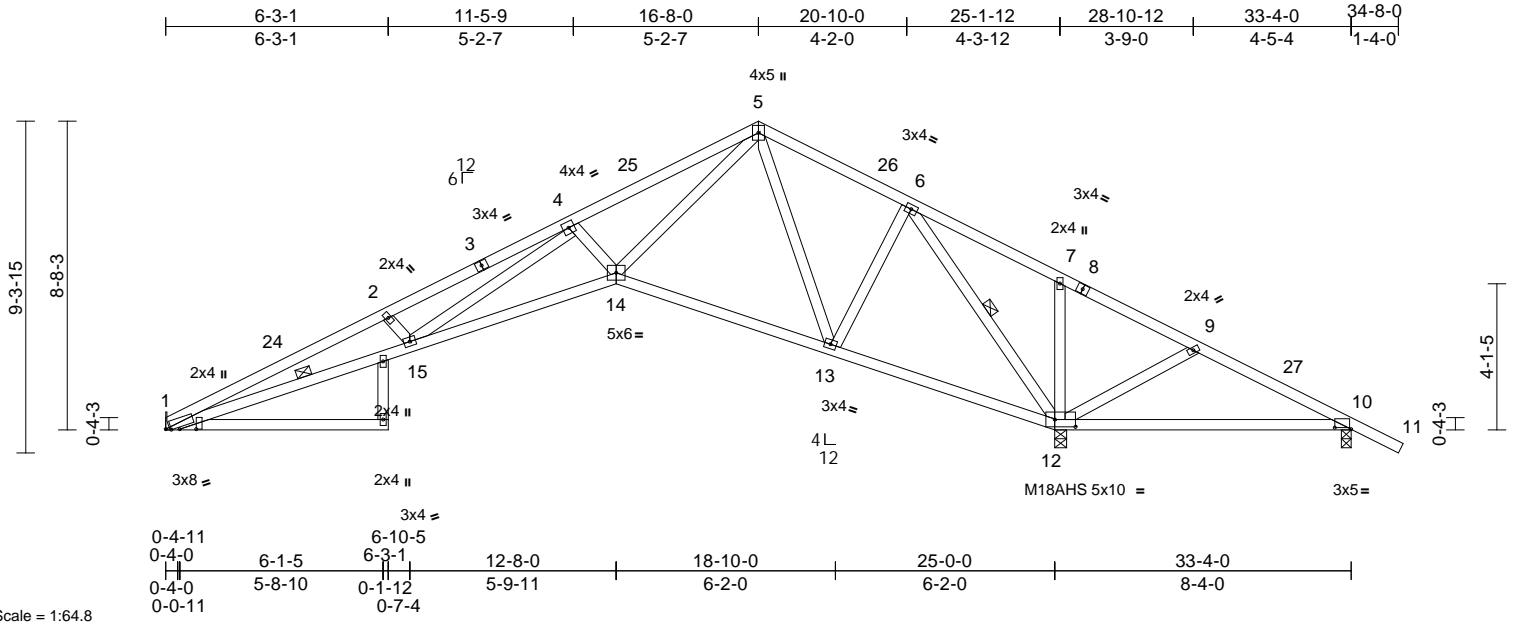


Plate Offsets (X, Y): [1:0-1-12,0-0-12], [1:Edge,0-5-9], [10:0-5-8,0-0-8], [12:0-7-0,0-2-8]

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	0.83	Vert(LL)	0.29	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.41	14-15	>725	180	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.25	12	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS								
											Weight: 180 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 3-11-6 oc bracing. Except:
5-1-0 oc bracing: 1-15
WEBS 1 Row at midpt 6-12

REACTIONS

(size) 1= Mechanical, 10=0-3-4, 12=0-4-0
Max Horiz 1=-254 (LC 17)
Max Uplift 1=-284 (LC 12), 10=-682 (LC 23), 12=-1011 (LC 12)
Max Grav 1=672 (LC 1), 10=359 (LC 12), 12=2637 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2626/1273, 2-4=-2440/1240, 4-5=-1123/468, 5-6=-117/436, 6-7=-865/2196, 7-9=-939/2177, 9-10=-876/1873, 10-11=0/38
BOT CHORD 1-15=-1301/2427, 14-15=-524/1367, 13-14=-141/331, 12-13=-775/539, 10-12=-1601/834
WEBS 2-15=-269/307, 4-15=-701/1090, 4-14=-549/491, 5-14=-574/1330, 5-13=-953/457, 6-13=-303/894, 6-12=-2239/839, 7-12=-228/260, 9-12=-346/276

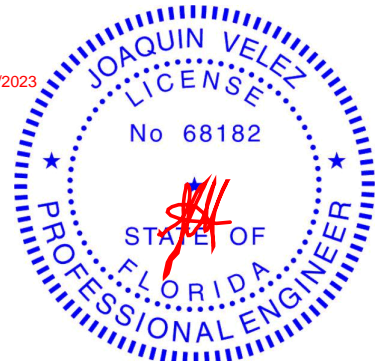
NOTES

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

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-4-1, Interior (1) 3-4-1 to 16-8-0, Exterior(2R) 16-8-0 to 20-0-1, Interior (1) 20-0-1 to 34-8-13 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.
- All plates are MT20 plates 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'-0" all by 2'-0" will be below the bottom chord and any other members.
- Bearings are assumed 166.7 lb joint 12 SP No.2 crushing capacity of 565 psi, Joint 10 SP No.2 crushing capacity of 565 psi.
- Refer to drawings for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1011 lb uplift at joint 12, 682 lb uplift at joint 10 and 284 lb uplift at joint 1.

LOAD CASE(S) Standard

Review for Code Compliance
Universal Engineering Science
10/22/2023
P. J. Williams, PE
Examining Engineer
PX2707



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 26,2023

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

Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656405
1187-A	T6	Roof Special	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 17:10:58
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Page: 1

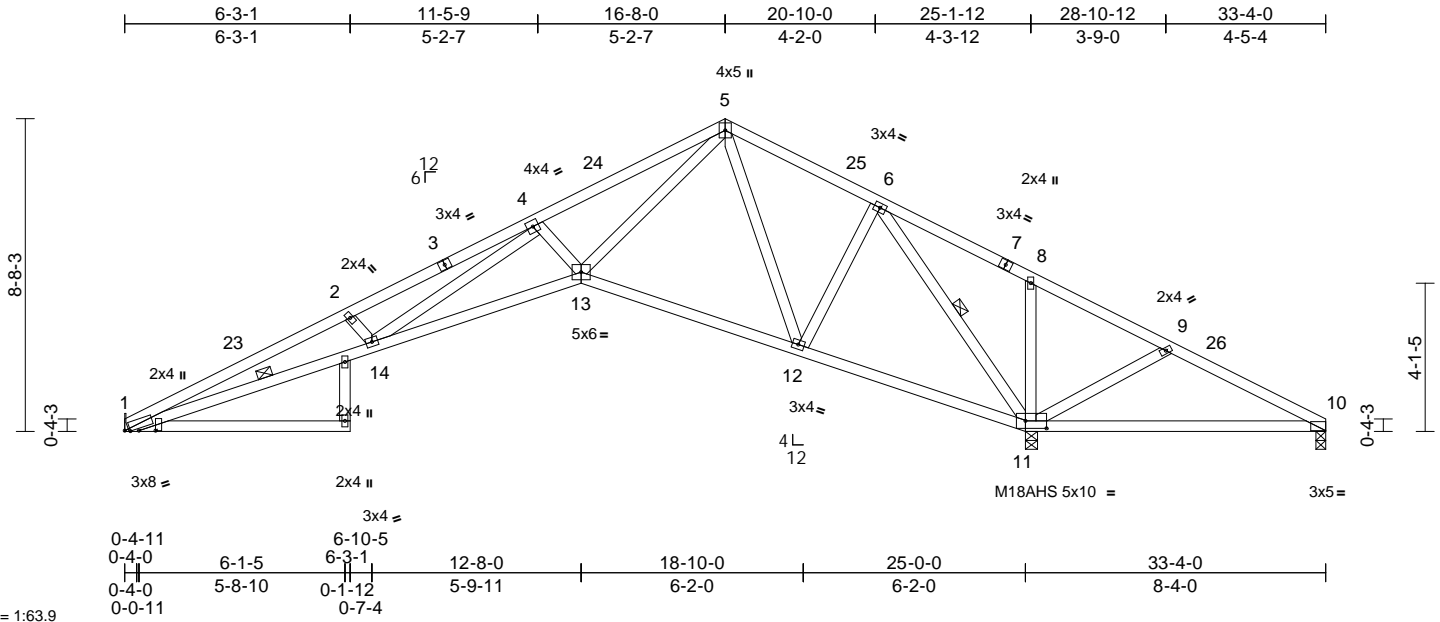


Plate Offsets (X, Y): [1:0-1-12,0-0-12], [1:Edge,0-5-9], [11:0-7-0,0-2-8]

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	0.85	Vert(LL)	0.29	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.41	13-14	>726	180	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.25	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS								
											Weight: 178 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 3-11-2 oc bracing. Except:
5-0-0 oc bracing: 1-14
WEBS 1 Row at midpt 6-11

REACTIONS

(size) 1= Mechanical, 10=0-3-4, 11=0-4-0
Max Horiz 1=218 (LC 12)
Max Uplift 1=280 (LC 12), 10=713 (LC 23), 11=1031 (LC 12)
Max Grav 1=672 (LC 1), 10=397 (LC 12), 11=2645 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=2625/1281, 2-4=2440/1249, 4-5=1123/477, 5-6=127/422, 6-8=893/2197, 8-9=967/2176, 9-10=900/1862
BOT CHORD 1-14=1327/2427, 13-14=552/1367, 12-13=133/301, 11-12=775/535, 10-11=1587/836
WEBS 2-14=269/306, 4-14=700/1090, 4-13=549/491, 5-13=592/1330, 5-12=953/471, 6-12=314/893, 6-11=2240/861, 8-11=223/257, 9-11=363/291

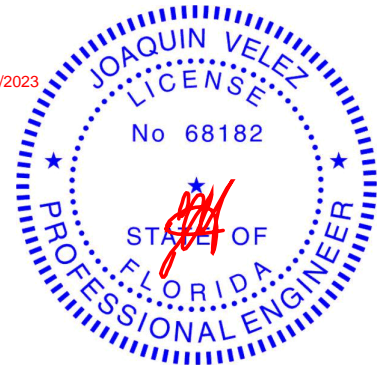
NOTES

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

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-4-1, Interior (1) 3-4-1 to 16-8-0, Exterior(2R) 16-8-0 to 20-0-1, Interior (1) 20-0-1 to 33-4-0 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.
- All plates are MT20 plates 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'-0" all by 2'-0" will be below the bottom chord and any other members.
- Bearings are assumed 106.1 Joint 11 SP No.2 crushing capacity of 565 psi, Joint 10 SP No.2 crushing capacity of 565 psi.
- Refer to drawings for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1031 lb uplift at joint 11, 713 lb uplift at joint 10 and 280 lb uplift at joint 1.

LOAD CASE(S) Standard

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Universal Engineering Science
10/22/2023
PX2707



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 26, 2023

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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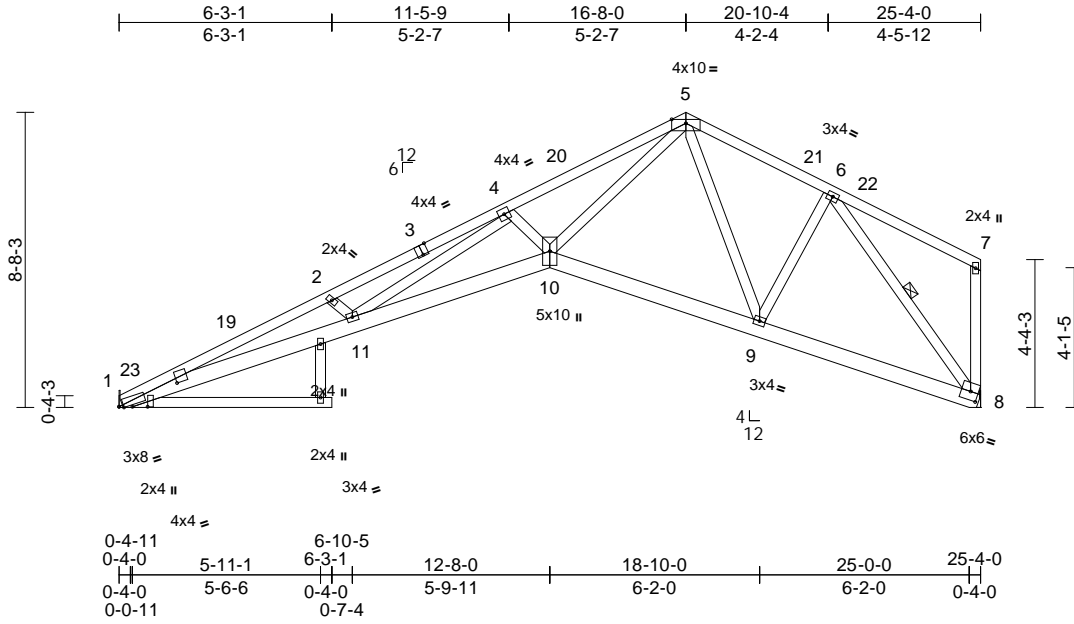
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656406
1187-A	T7	Scissor	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 17:10:59
ID:IBor_FCcBa_aUcyVvAot0KybNSz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:67.8

Plate Offsets (X, Y): [1:0-1-9,Edge], [1:1-10-1,0-1-8], [3:0-2-0,Edge], [8:0-2-11,0-3-0], [12:Edge,0-5-6]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	0.47	10-11	>639	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.65	10-11	>468	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.42	8	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
Weight: 168 lb FT = 20%											

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP DSS *Except* 13-15:2x4 SP No.2
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-10-0 oc bracing.

WEBS 1 Row at midpt 6-8

REACTIONS (size) 1= Mechanical, 8= Mechanical
Max Horiz 1=333 (LC 11)
Max Uplift 1=-441 (LC 12), 8=-363 (LC 12)
Max Grav 1=993 (LC 1), 8=1007 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-4533/2354, 2-4=-4363/2323,
4-5=-3325/1906, 5-6=-1110/642,
6-7=-181/206, 7-8=-160/165

BOT CHORD 1-11=-2516/4245, 10-11=-2086/3429,
9-10=-667/1104, 8-9=-532/834
2-11=-240/275, 4-11=-552/842,

WEBS 4-10=-496/465, 5-10=-1563/2695,
5-9=-324/224, 6-9=-106/408, 6-8=-1320/720

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-5-10, Interior (1) 3-5-10 to 16-8-0, Exterior(2R) 16-8-0 to 20-1-10, Interior (1) 20-1-10 to 25-2-4 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 441 lb uplift at joint 1 and 363 lb uplift at joint 8.

LOAD CASE(S) Standard

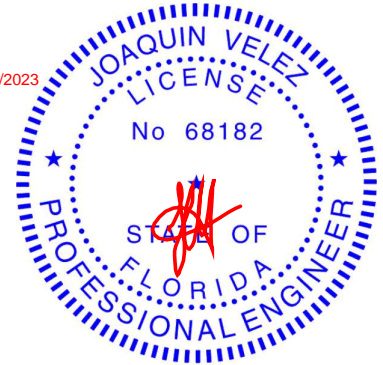


Review for Code Compliance
Universal Engineering Science

Lawrence Powell
Examiner-License No.

PX2707

10/22/2023



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

September 26,2023

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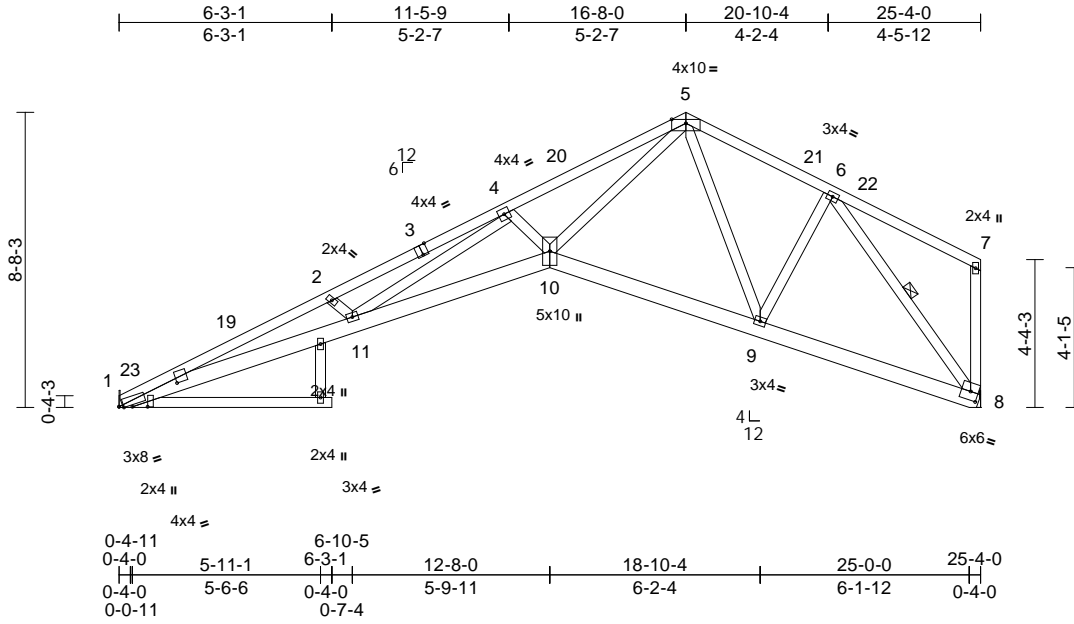
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656407
1187-A	T8	Scissor	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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Plate Offsets (X, Y): [1:0-1-9,Edge], [1:1-10-1,0-1-8], [3:0-2-0,Edge], [8:0-2-11,0-3-0], [12:Edge,0-5-6]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	0.47	10-11	>639	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.65	10-11	>468	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.42	8	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
Weight: 168 lb FT = 20%											

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP DSS *Except* 13-15:2x4 SP No.2
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-10-0 oc bracing.

WEBS 1 Row at midpt 6-8

REACTIONS (size) 1= Mechanical, 8= Mechanical
Max Horiz 1=333 (LC 11)
Max Uplift 1=-441 (LC 12), 8=-363 (LC 12)
Max Grav 1=993 (LC 1), 8=1007 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-4533/2354, 2-4=-4363/2323,
4-5=-3325/1906, 5-6=-1109/641,
6-7=-181/206, 7-8=-160/165

BOT CHORD 1-11=-2516/4245, 10-11=-2086/3429,
9-10=-667/1103, 8-9=-532/834

WEBS 2-11=-240/275, 4-11=-552/841,
4-10=-496/465, 5-10=-1563/2695,
5-9=-325/225, 6-9=-106/409, 6-8=-1321/720

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-5-10, Interior (1) 3-5-10 to 16-8-0, Exterior(2R) 16-8-0 to 20-1-10, Interior (1) 20-1-10 to 25-2-4 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 441 lb uplift at joint 1 and 363 lb uplift at joint 8.

LOAD CASE(S) Standard

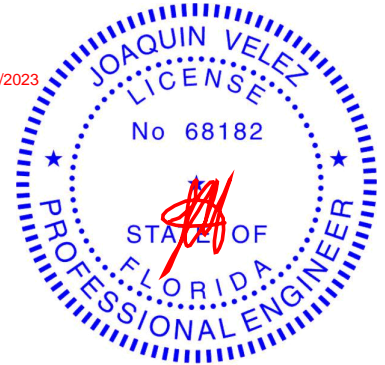


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PX2707

10/22/2023



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 26,2023

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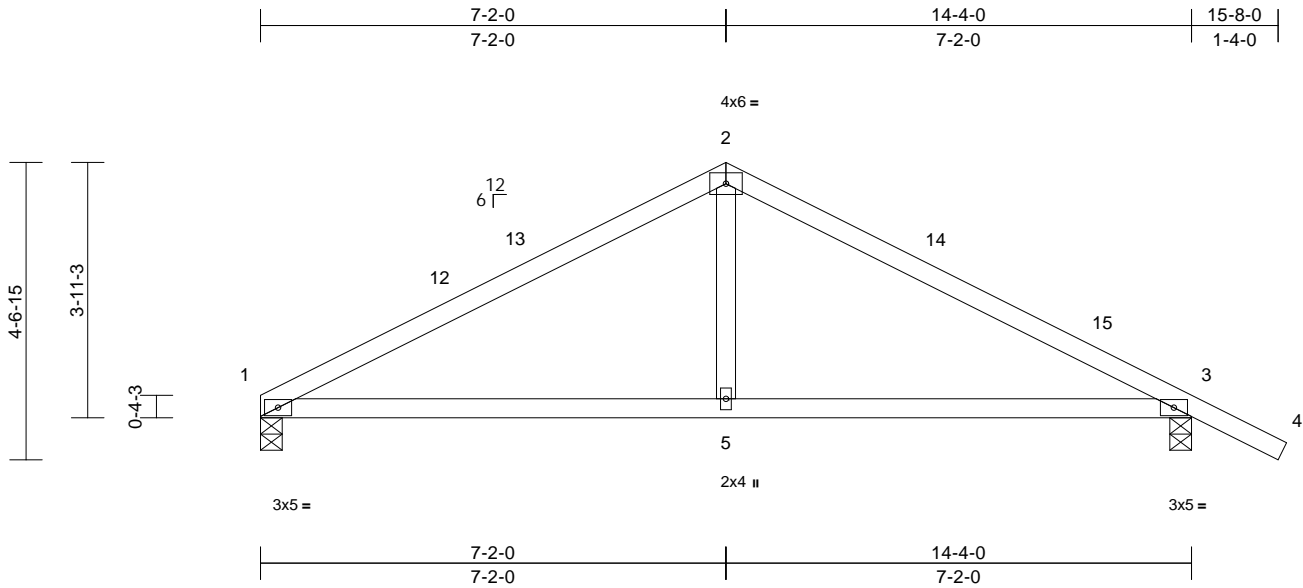
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1187-A	Truss T9	Truss Type Common	Qty 1	Ply 1	Anderson Home Job Reference (optional)	T31656408
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19 Lumber, Inc., Old Town, FL - 32680,

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	0.15	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.18	5-8	>965	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 53 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 4-10-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-4-10 oc bracing.

REACTIONS

(size) 1=0-4-0, 3=0-4-0
Max Horiz 1=-130 (LC 17)
Max Uplift 1=-230 (LC 12), 3=-293 (LC 13)
Max Grav 1=569 (LC 1), 3=661 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-819/532, 2-3=-820/518, 3-4=0/38
BOT CHORD 1-5=-271/658, 3-5=-271/658
WEBS 2-5=-31/341

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 7-2-0, Exterior(2R) 7-2-0 to 10-2-0, Interior (1) 10-2-0 to 15-8-13 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 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint 1 and 293 lb uplift at joint 3.

LOAD CASE(S) Standard

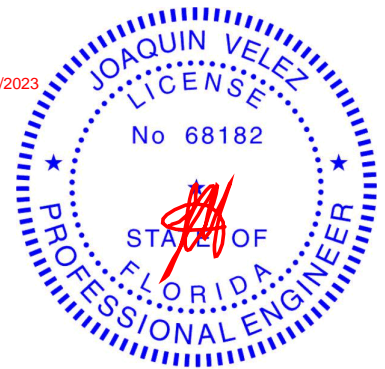


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Universal Engineering Science

Lawrence Pennell
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Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 26, 2023

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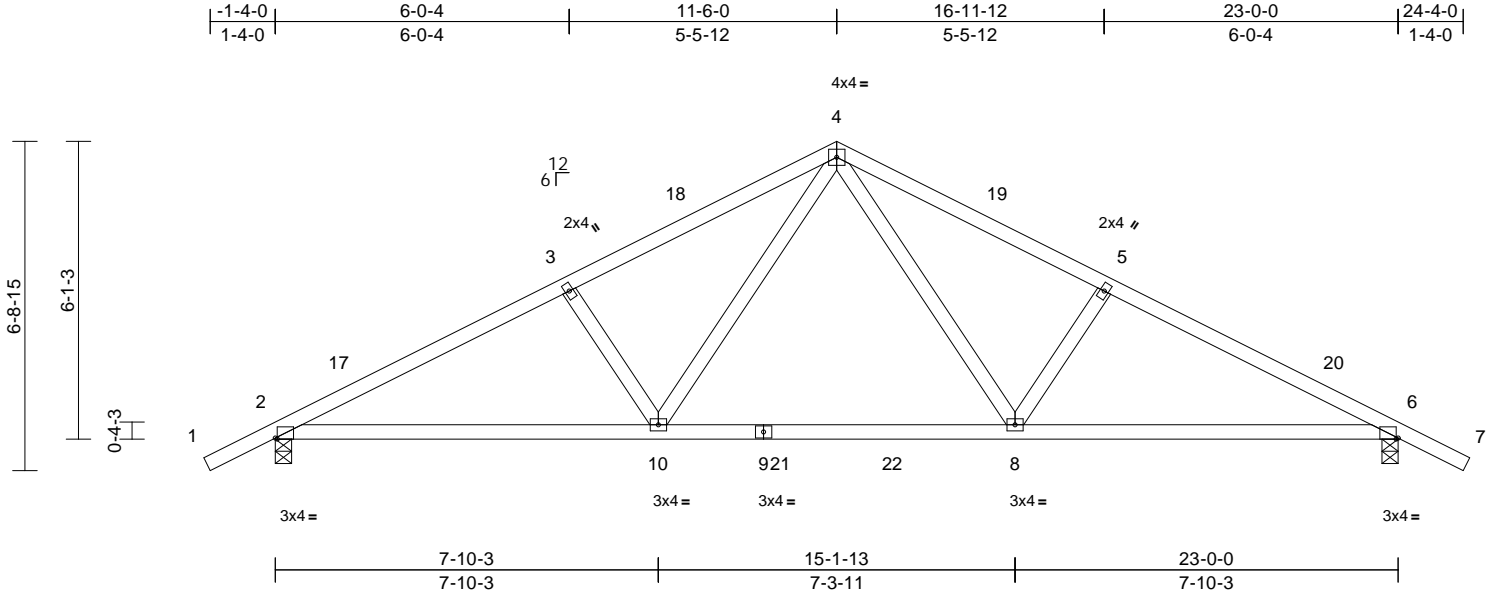
Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656409
1187-A	T10	Common	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 17:11:00

Page: 1

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Scale = 1:47.2

Plate Offsets (X, Y): [2:0-0-8,Edge], [6:0-0-8,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)	-0.11	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.21	10-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 107 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 4-1-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-6-4 oc bracing.

REACTIONS (size) 2=0-4-0, 6=0-4-0
Max Horiz 2=-168 (LC 17)
Max Uplift 2=-431 (LC 12), 6=-431 (LC 13)
Max Grav 2=1065 (LC 2), 6=1065 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-0/38, 2-3=-1703/740, 3-4=-1564/731, 4-5=-1564/731, 5-6=-1703/740, 6-7=0/38
BOT CHORD 2-10=-592/1495, 8-10=-245/990, 6-8=-539/1495
WEBS 4-8=-287/656, 5-8=-353/364, 4-10=-287/656, 3-10=-353/364

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-13 to 1-7-3, Interior (1) 1-7-3 to 11-6-0, Exterior(2R) 11-6-0 to 14-6-0, Interior (1) 14-6-0 to 24-4-13 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, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 431 lb uplift at joint 2 and 431 lb uplift at joint 6.

LOAD CASE(S) Standard

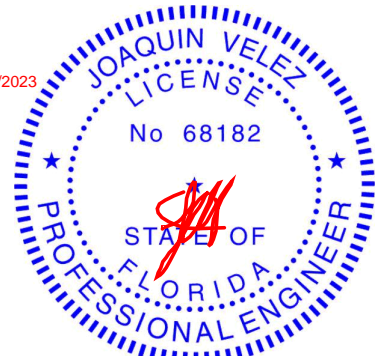


Review for Code Compliance
Universal Engineering Science

Lawrence Pennell
Examiner-License No.

PX2707

10/22/2023



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 26,2023

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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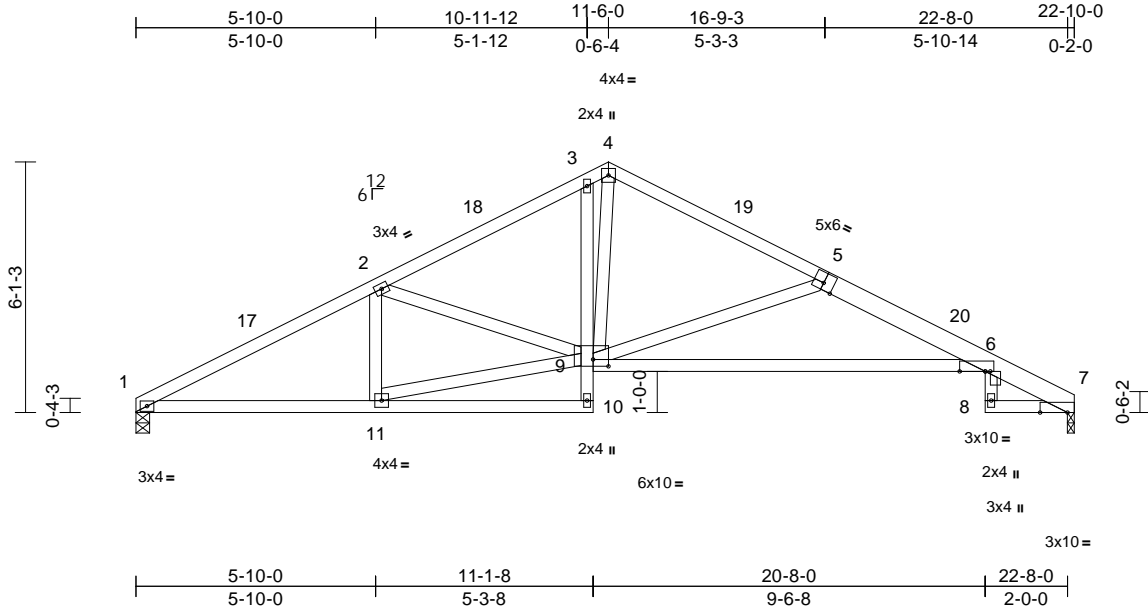
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Anderson Home	T31656410
1187-A	T11	Roof Special	4	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Aug 30 2023 Print: 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 17:11:00
ID:CJEFLB1j?63mAAEEZ?71hbya82n-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:56.1

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

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	0.65	Vert(LL)	0.29	6-9	>955	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.65	6-9	>420	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.22	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 121 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 4-5:2x4 SP DSS, 5-7:2x6 SP DSS
BOT CHORD 2x4 SP No.2 *Except* 9-6:2x4 SP DSS
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=0-4-0, 7=0-2-0
Max Horiz 1=151 (LC 12)
Max Uplift 1=-368 (LC 12), 7=-365 (LC 13)
Max Grav 1=910 (LC 1), 7=910 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1627/760, 2-3=-1386/686, 3-4=-1303/755, 4-6=-2003/994, 6-7=-788/372
BOT CHORD 1-11=-617/1415, 10-11=-74/0, 9-10=0/89, 3-9=-180/197, 6-9=-834/1914, 6-8=-103/249, 7-8=-268/582
WEBS 2-11=-144/151, 9-11=-604/1473, 2-9=-319/282, 4-9=-506/947, 5-9=-895/578

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 11-6-0, Exterior(2R) 11-6-0 to 14-6-0, Interior (1) 14-6-0 to 22-9-0 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.

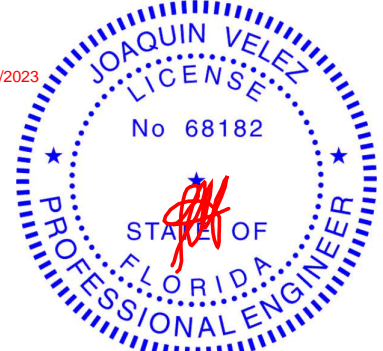
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 1 SP No.2 crushing capacity of 565 psi, Joint 7 SP DSS crushing capacity of 660 psi.
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 1 and 365 lb uplift at joint 7.
- Grain inspection: If the grain angle is not perpendicular to the vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

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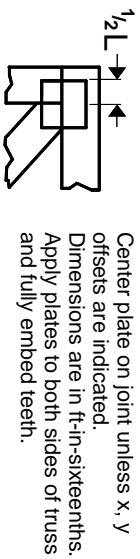
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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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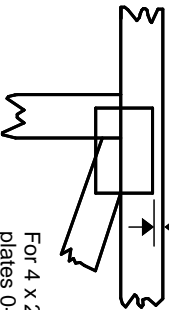
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Symbols

PLATE LOCATION AND ORIENTATION



0-¹/₁₆"



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

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

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

PLATE SIZE

4 X 4

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



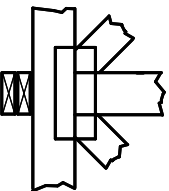
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LATERAL BRACING LOCATION



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

BEARING



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

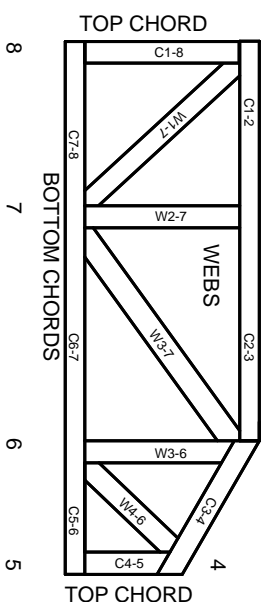
Industry Standards:

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

Numbering System

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

1 2 3 Joint ID typ.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.