



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

RE: 6252400 - 2169-CR

MiTek, Inc.

16023 Swingley Ridge Rd.

Chesterfield, MO 63017

Model: 2169 -CR

Site Information:

Customer Info: Adams Homes-Gainesville
 Lot/Block: 022
 Address: 247 SW Bellflower Dr
 City: Lake City

Project Name: The Preserve at Laurel Lake
 Subdivision: The Preserve at Laurel Lake

State: FL

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

Name: License #:
 Address: State:
 City:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7
 Wind Code: ASCE 7-22 Wind Speed: 130 mph
 Roof Load: 40.0 psf Floor Load: N/A psf

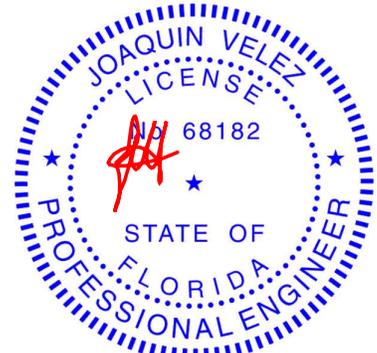
This package includes 47 individual, Truss Design Drawings and 0 Additional Drawings.
 With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T38758760	A01	10/7/25	23	T38758782	B01	10/7/25
2	T38758761	A02	10/7/25	24	T38758783	B01X	10/7/25
3	T38758762	A03	10/7/25	25	T38758784	C1	10/7/25
4	T38758763	A04	10/7/25	26	T38758785	C3	10/7/25
5	T38758764	A05	10/7/25	27	T38758786	C3A	10/7/25
6	T38758765	A06	10/7/25	28	T38758787	C5	10/7/25
7	T38758766	A07	10/7/25	29	T38758788	C5A	10/7/25
8	T38758767	A08	10/7/25	30	T38758789	D01	10/7/25
9	T38758768	A09	10/7/25	31	T38758790	D02	10/7/25
10	T38758769	A10	10/7/25	32	T38758791	D03	10/7/25
11	T38758770	A12	10/7/25	33	T38758792	E7	10/7/25
12	T38758771	A13	10/7/25	34	T38758793	G01	10/7/25
13	T38758772	A14	10/7/25	35	T38758794	G02	10/7/25
14	T38758773	A15	10/7/25	36	T38758795	G03	10/7/25
15	T38758774	A16	10/7/25	37	T38758796	G04	10/7/25
16	T38758775	A17	10/7/25	38	T38758797	G05	10/7/25
17	T38758776	A18	10/7/25	39	T38758798	G06	10/7/25
18	T38758777	A19	10/7/25	40	T38758799	G07	10/7/25
19	T38758778	A20	10/7/25	41	T38758800	H5	10/7/25
20	T38758779	A21	10/7/25	42	T38758801	H7	10/7/25
21	T38758780	A22	10/7/25	43	T38758802	PB1	10/7/25
22	T38758781	A23	10/7/25	44	T38758803	PB2	10/7/25



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

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



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

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

October 7,2025



RE: 6252400 - 2169-CR

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

Site Information:

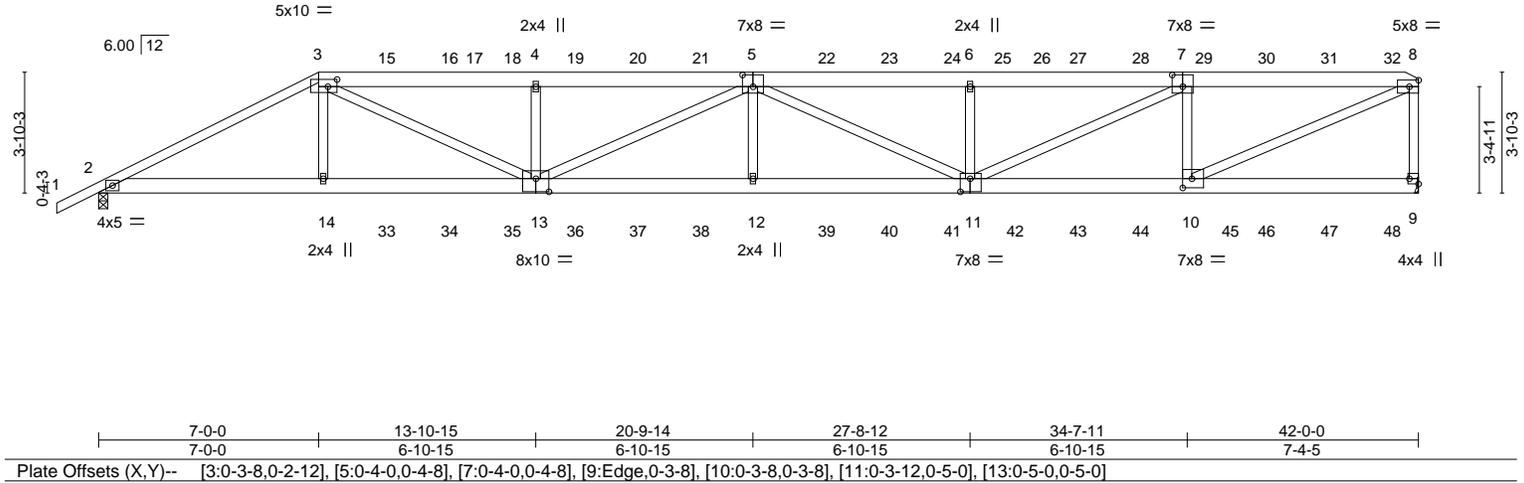
Customer Info: Adams Homes-Gainesville Project Name: The Preserve at Laurel Lake 022 Model: 2169 -CR
Lot/Block: 022 Subdivision: The Preserve at Laurel Lake
Address: 247 SW Bellflower Dr , .
City: Lake City State: FL

No.	Seal#	Truss Name	Date
45	T38758804	PB3	10/7/25
46	T38758805	PB5	10/7/25
47	T38758806	PB6	10/7/25

Job 6252400	Truss A01	Truss Type HIP GIRDER	Qty 1	Ply 2	2169-CR Job Reference (optional)	T38758760
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:05 2025 Page 1
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 1-4-0 7-0-0 13-10-15 20-9-14 27-8-12 34-7-11 41-7-0 42-0-0
 1-4-0 7-0-0 6-10-15 6-10-15 6-10-15 6-10-15 6-11-5 0-5-0

Scale = 1:73.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.86	Vert(LL) -0.37 12 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.72	Vert(CT) -0.75 12 >666 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.86	Horz(CT) 0.13 9 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.26 12 >999 240	Weight: 548 lb	FT = 20%

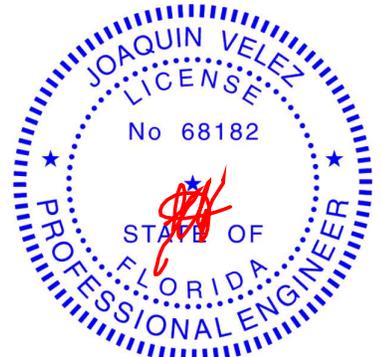
LUMBER-
 TOP CHORD 2x6 SP No.2 *Except*
 1-3: 2x4 SP No.2
 BOT CHORD 2x6 SP No.2 *Except*
 11-13: 2x6 SP DSS
 WEBS 2x4 SP No.2

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

REACTIONS. (size) 2=0-3-8, 9=Mechanical
 Max Horz 2=111(LC 26)
 Max Uplift 2=-245(LC 8), 9=-313(LC 8)
 Max Grav 2=3342(LC 1), 9=3589(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-6815/428, 3-4=-9816/798, 4-5=-9814/797, 5-6=-9912/870, 6-7=-9912/870,
 7-8=-6432/583, 8-9=-3418/394
 BOT CHORD 2-14=-343/6013, 13-14=-334/6035, 12-13=-881/11092, 11-12=-881/11092,
 10-11=-536/6547
 WEBS 3-14=0/743, 3-13=-443/4297, 4-13=-977/314, 5-13=-1455/167, 5-12=0/613,
 5-11=-1314/86, 6-11=-821/272, 7-11=-299/3764, 7-10=-2663/464, 8-10=-597/7001

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 245 lb uplift at joint 2 and 313 lb uplift at joint 9.



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 Date:

October 7, 2025

Continued on page 2

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

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

MiTek®
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Job	Truss	Truss Type	Qty	Ply	2169-CR	T38758760
6252400	A01	HIP GIRDER	1	2	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:05 2025 Page 2
 ID:SuQVa2bJoYHjVzRq1hrHKbYtAWH-WY_vytSiol?IEWj5aG3wzXRlwODOsvZS8bGT92yWAwu

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 153 lb down and 93 lb up at 7-0-0, 134 lb down and 89 lb up at 9-0-12, 134 lb down and 89 lb up at 11-0-12, 134 lb down and 89 lb up at 13-0-12, 134 lb down and 89 lb up at 15-0-12, 134 lb down and 89 lb up at 17-0-12, 134 lb down and 89 lb up at 19-0-12, 134 lb down and 89 lb up at 21-0-12, 134 lb down and 89 lb up at 23-0-12, 134 lb down and 89 lb up at 25-0-12, 134 lb down and 89 lb up at 27-0-12, 134 lb down and 89 lb up at 29-0-12, 134 lb down and 89 lb up at 31-0-12, 134 lb down and 89 lb up at 33-0-12, 134 lb down and 89 lb up at 35-0-12, 134 lb down and 89 lb up at 37-0-12, and 134 lb down and 89 lb up at 39-0-12, and 140 lb down and 87 lb up at 41-0-12 on top chord, and 317 lb down at 7-0-0, 96 lb down at 9-0-12, 96 lb down at 11-0-12, 96 lb down at 13-0-12, 96 lb down at 15-0-12, 96 lb down at 17-0-12, 96 lb down at 19-0-12, 96 lb down at 21-0-12, 96 lb down at 23-0-12, 96 lb down at 25-0-12, 96 lb down at 27-0-12, 96 lb down at 29-0-12, 96 lb down at 31-0-12, 96 lb down at 33-0-12, 96 lb down at 35-0-12, 96 lb down at 37-0-12, and 96 lb down at 39-0-12, and 100 lb down at 41-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-60, 3-8=-60, 2-9=-20

Concentrated Loads (lb)

Vert: 3=-134(F) 14=-269(F) 5=-134(F) 12=-48(F) 15=-134(F) 16=-134(F) 18=-134(F) 19=-134(F) 20=-134(F) 21=-134(F) 22=-134(F) 23=-134(F) 24=-134(F) 26=-134(F) 27=-134(F) 28=-134(F) 29=-134(F) 30=-134(F) 31=-134(F) 32=-140(F) 33=-48(F) 34=-48(F) 35=-48(F) 36=-48(F) 37=-48(F) 38=-48(F) 39=-48(F) 40=-48(F) 41=-48(F) 42=-48(F) 43=-48(F) 44=-48(F) 45=-48(F) 46=-48(F) 47=-48(F) 48=-50(F)

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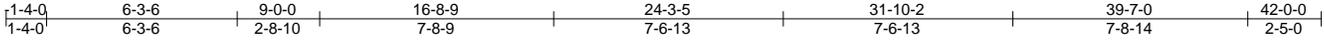
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 6252400	Truss A02	Truss Type HIP	Qty 1	Ply 1	2169-CR	T38758761
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:06 2025 Page 1

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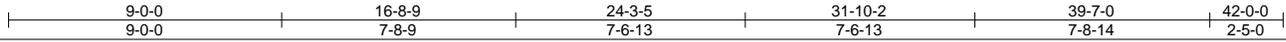
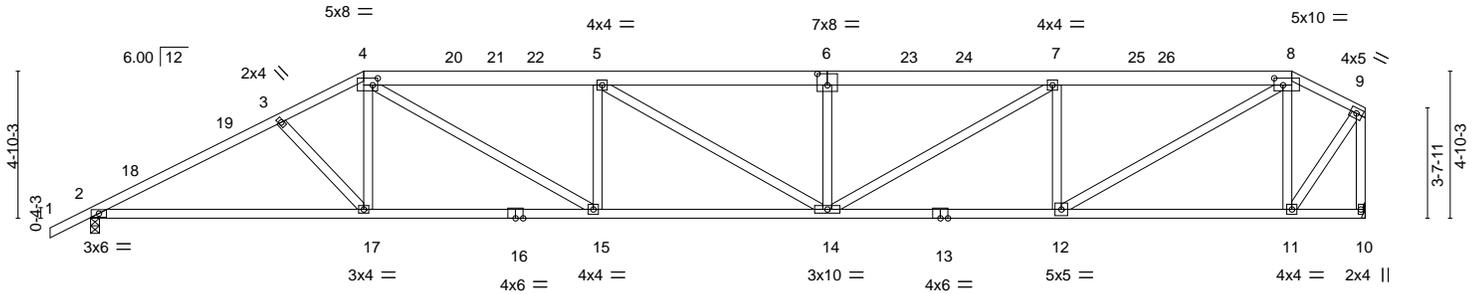


Plate Offsets (X,Y)-- [4:0-2-0,0-2-12], [6:0-4-0,0-4-8], [8:0-3-8,0-2-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.80	Vert(LL) -0.26 14-15 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.48	Vert(CT) -0.56 14-15 >899 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.59	Horz(CT) 0.13 10 n/a n/a		
BCDL 10.0	Code FBC2023/TP12014	Matrix-S	Wind(LL) 0.16 14-15 >999 240	Weight: 252 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-6,6-8: 2x6 SP No.2
BOT CHORD 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2

BRACING-

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

REACTIONS.

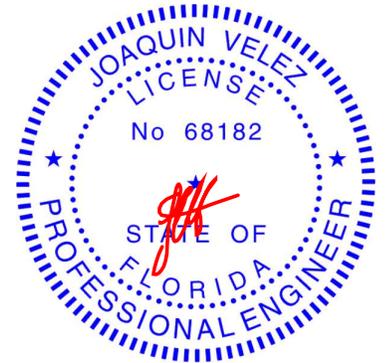
(size) 2=0-3-8, 10=Mechanical
Max Horz 2=129(LC 11)
Max Uplift 2=115(LC 12), 10=-72(LC 12)
Max Grav 2=1759(LC 1), 10=1667(LC 1)

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

TOP CHORD 2-3=-3178/240, 3-4=-2952/225, 4-5=-3800/305, 5-6=-3855/292, 6-7=-3855/292,
7-8=-2924/243, 8-9=-981/113, 9-10=-1672/121
BOT CHORD 2-17=-321/2753, 15-17=-242/2619, 14-15=-317/3799, 12-14=-244/2923, 11-12=-96/834
WEBS 4-17=0/413, 4-15=-110/1438, 5-15=-585/141, 6-14=-430/115, 7-14=-66/1087,
7-12=-1067/180, 8-12=-172/2423, 8-11=-1087/173, 9-11=-110/1492

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 39-7-0, Zone3 39-7-0 to 41-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 115 lb uplift at joint 2 and 72 lb uplift at joint 10.



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

October 7, 2025

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

Job 6252400	Truss A03	Truss Type HIP	Qty 1	Ply 1	2169-CR	T38758762
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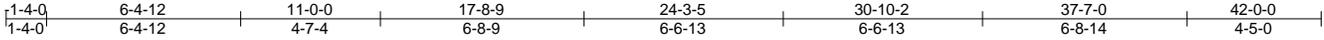
Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:06 2025 Page 1

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Job Reference (optional)



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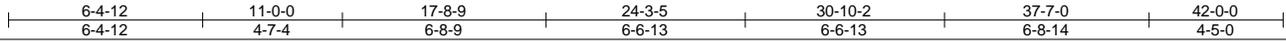
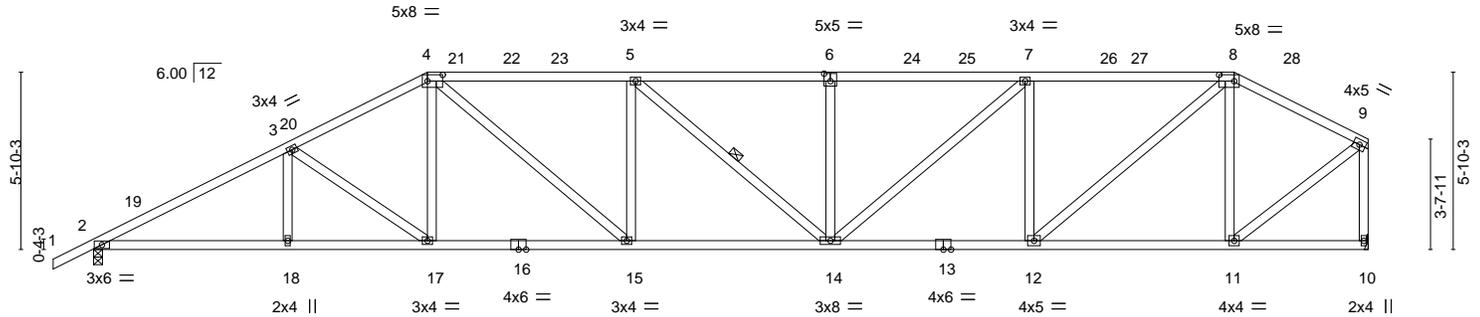


Plate Offsets (X,Y)-- [4:0-6-0,0-2-8], [6:0-2-8,0-3-0], [8:0-6-0,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.94	Vert(LL) -0.24	14-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.89	Vert(CT) -0.50	14-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.52	Horz(CT) 0.15	10	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014	Matrix-S	Wind(LL) 0.15	14-15	>999	240		
							Weight: 243 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-14

REACTIONS.

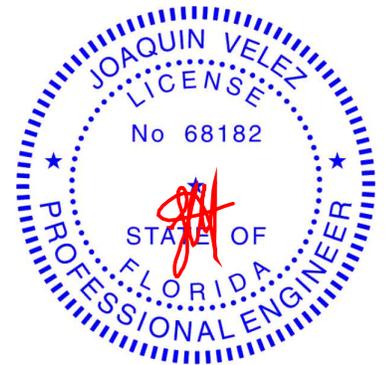
(size) 2=0-3-8, 10=Mechanical
 Max Horz 2=146(LC 11)
 Max Uplift 2=-115(LC 12), 10=-72(LC 12)
 Max Grav 2=1759(LC 1), 10=1667(LC 1)

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

TOP CHORD 2-3=-3217/219, 3-4=-2781/238, 4-5=-3104/277, 5-6=-3093/270, 6-7=-3093/270,
 7-8=-2488/236, 8-9=-1397/150, 9-10=-1632/151
 BOT CHORD 2-18=-303/2784, 17-18=-303/2784, 15-17=-235/2433, 14-15=-267/3103, 12-14=-218/2488,
 11-12=-125/1182
 WEBS 3-17=-437/81, 4-17=0/405, 4-15=-60/960, 5-15=-477/120, 6-14=-374/101, 7-14=-50/805,
 7-12=-953/157, 8-12=-121/1710, 8-11=-797/144, 9-11=-113/1499

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 37-7-0, Zone3 37-7-0 to 41-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 115 lb uplift at joint 2 and 72 lb uplift at joint 10.



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

October 7, 2025

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

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

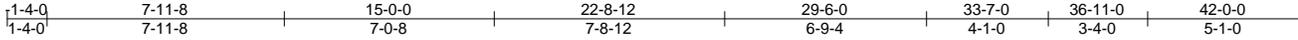


16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 6252400	Truss A05	Truss Type ROOF SPECIAL	Qty 1	Ply 1	2169-CR	T38758764
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.30 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:08 2025 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-w7g2avVb4DNS5zSfFPddb93pWbF?3L6vqZU7mNyWAWr



Scale = 1:76.9

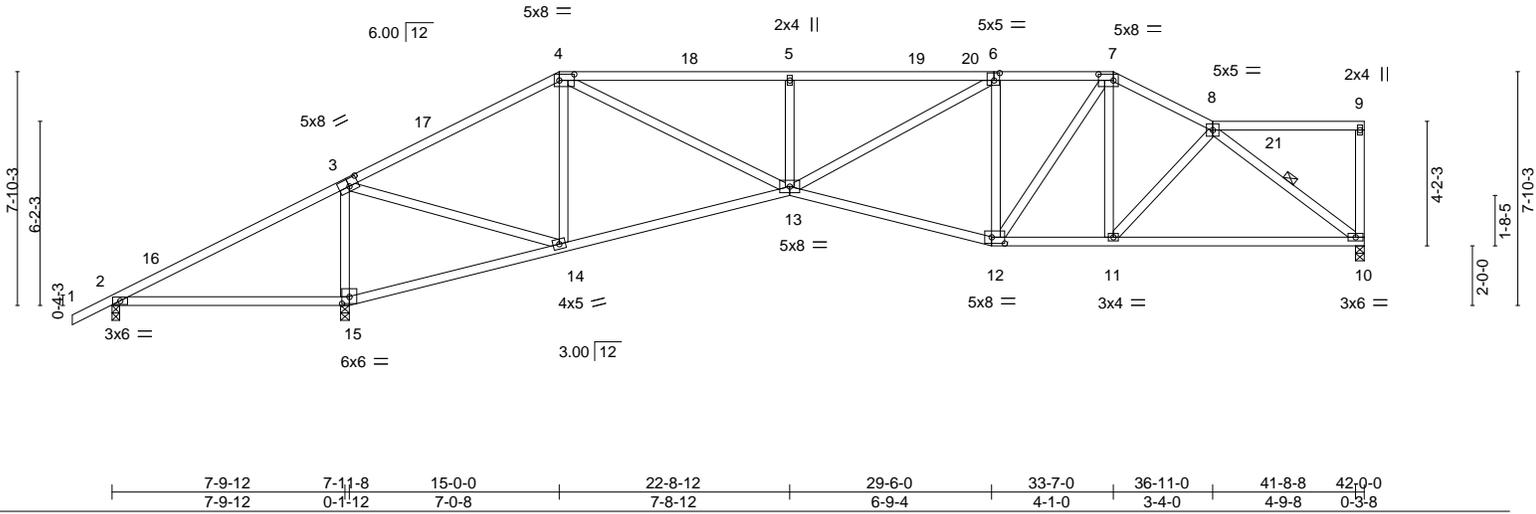


Plate Offsets (X,Y)-- [3:0-3-12,0-3-0], [4:0-6-0,0-2-8], [6:0-2-4,0-3-0], [7:0-6-0,0-2-8], [12:0-5-4,0-2-8], [15:0-3-0,0-2-12]

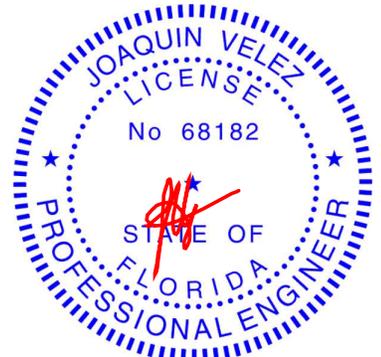
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.78	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.73	Vert(LL) -0.16 10-11 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.55	Vert(CT) -0.34 10-11 >999 240		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Horz(CT) 0.11 10 n/a n/a		
			Wind(LL) 0.15 2-15 >642 240	Weight: 232 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-6,1-3: 2x4 SP M 31 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 3-8-2 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 4-8-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 8-10

REACTIONS. (size) 10=0-3-8, 2=0-3-1, 15=0-3-8
 Max Horz 2=170(LC 9)
 Max Uplift 10=-52(LC 12), 2=-370(LC 24), 15=-188(LC 12)
 Max Grav 10=1216(LC 1), 15=2406(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-287/1319, 3-4=-920/128, 4-5=-2326/249, 5-6=-2326/249, 6-7=-1640/234, 7-8=-1550/207
 BOT CHORD 2-15=-1064/105, 14-15=-1147/126, 13-14=-139/740, 12-13=-224/1697, 11-12=-168/1345, 10-11=-191/1288
 WEBS 3-15=-1972/358, 3-14=-180/1900, 4-14=-839/201, 4-13=-184/1819, 5-13=-490/148, 6-13=-91/826, 6-12=-738/159, 7-12=-72/561, 8-10=-1600/195

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 33-7-0, Zone3 33-7-0 to 36-11-0, Zone1 36-11-0 to 41-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 10, 370 lb uplift at joint 2 and 188 lb uplift at joint 15.



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

October 7, 2025

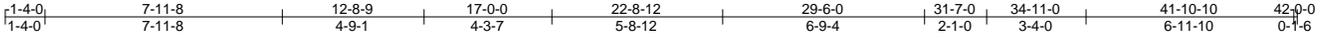
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 6252400	Truss A06	Truss Type ROOF SPECIAL	Qty 1	Ply 1	2169-CR	T38758765
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:08 2025 Page 1

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Scale = 1:76.9

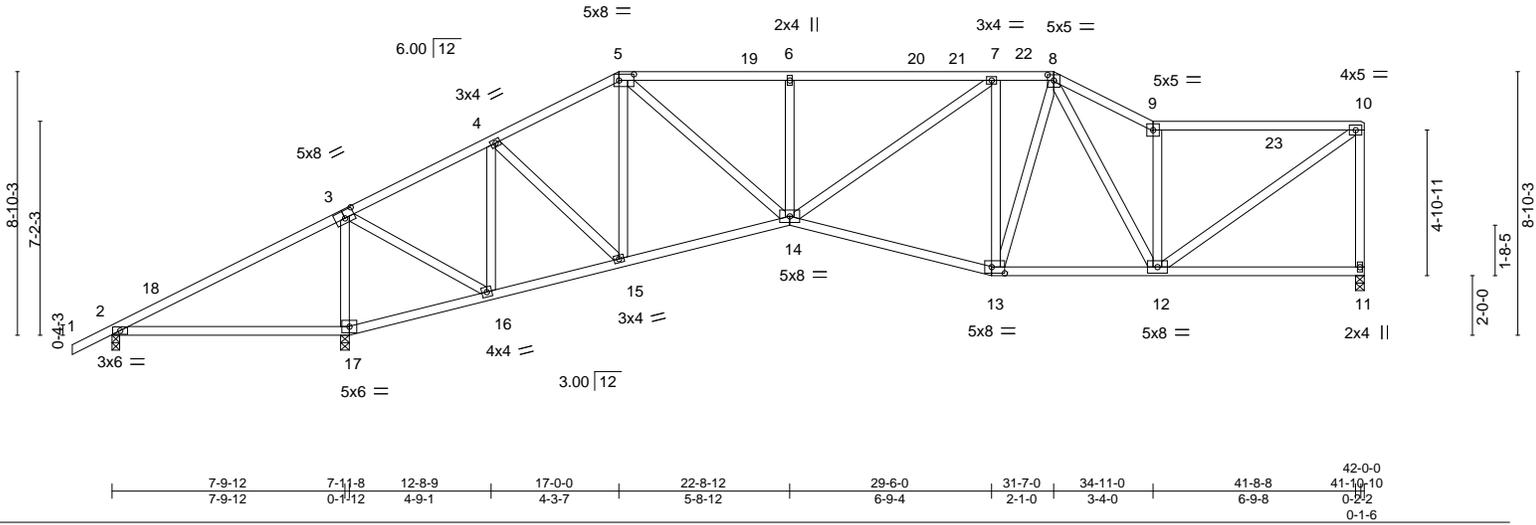


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-6-0,0-2-8], [8:0-2-8,0-2-4], [13:0-5-4,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.96	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.67	Vert(LL) -0.13 2-17 >706 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.54	Vert(CT) -0.30 13-14 >999 240		
BCDL 10.0	Code FBC2023/TP12014	Matrix-S	Horz(CT) 0.08 11 n/a n/a		
			Wind(LL) 0.06 14 >999 240	Weight: 255 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 4-11-5 oc bracing: 2-17
 5-6-2 oc bracing: 16-17.

REACTIONS.

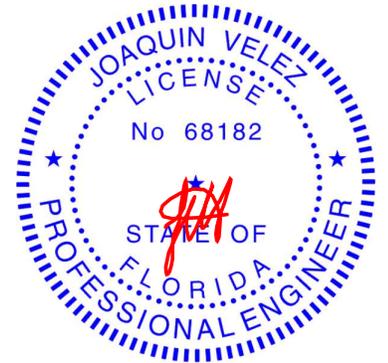
(size) 2=0-3-1, 17=0-3-8, 11=0-3-8
 Max Horz 2=200(LC 9)
 Max Uplift 2=-282(LC 24), 17=-114(LC 12), 11=-54(LC 12)
 Max Grav 2=50(LC 9), 17=2317(LC 1), 11=1233(LC 1)

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

TOP CHORD 2-3=-307/1160, 3-4=-530/109, 4-5=-1151/180, 5-6=-1895/250, 6-7=-1895/250,
 7-8=-1430/244, 8-9=-1623/283, 9-10=-1368/205, 10-11=-1167/188
 BOT CHORD 2-17=-929/117, 16-17=-1078/139, 15-16=-166/423, 14-15=-221/1006, 13-14=-243/1475,
 12-13=-208/1288
 WEBS 3-17=-1905/347, 3-16=-215/1622, 4-15=-74/798, 5-15=-574/125, 5-14=-136/1225,
 6-14=-415/132, 7-14=-103/633, 7-13=-712/194, 8-13=-74/550, 9-12=-1043/237,
 10-12=-169/1646, 4-16=-1064/202

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 31-7-0, Zone3 31-7-0 to 34-11-0, Zone1 34-11-0 to 41-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 282 lb uplift at joint 2, 114 lb uplift at joint 17 and 54 lb uplift at joint 11.



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

October 7, 2025

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

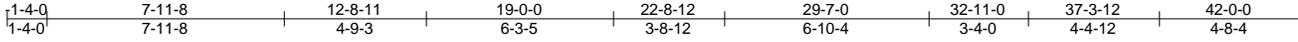
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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Job 6252400	Truss A07	Truss Type ROOF SPECIAL	Qty 1	Ply 1	2169-CR	T38758766
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:09 2025 Page 1
 ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-OJEQoFVDRXVJj70sp68s7NcyA?YOoog23DEhpyWAwq



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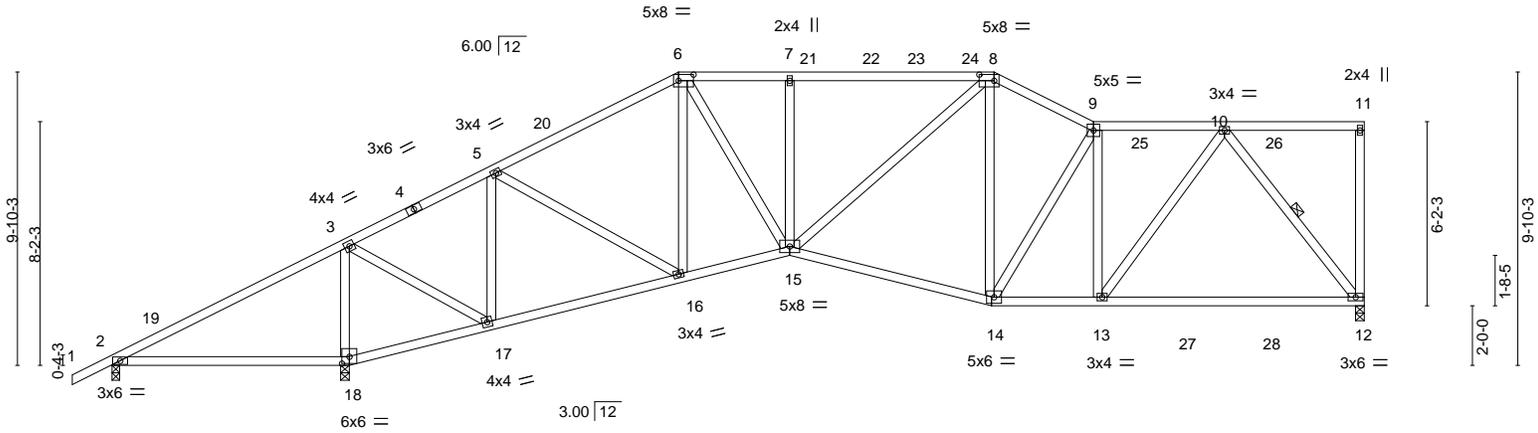


Plate Offsets (X,Y)--	[6:0-6-0-0-2-8],	[8:0-6-0-0-2-8],	[18:0-3-0-0-2-12]
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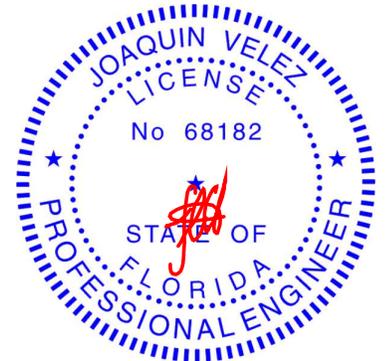
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.91	Vert(LL) -0.27 12-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.91	Vert(CT) -0.47 12-13 >859 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.53	Horz(CT) 0.08 12 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.05 15 >999 240	Weight: 262 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 4-3-8 oc bracing: 2-18 5-11-6 oc bracing: 17-18.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 10-12

REACTIONS. (size) 12=0-3-8, 2=0-3-1, 18=0-3-8
 Max Horz 2=231(LC 9)
 Max Uplift 12=56(LC 12), 2=157(LC 24), 18=106(LC 12)
 Max Grav 12=1385(LC 19), 2=60(LC 9), 18=2433(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-314/1043, 3-5=-760/128, 5-6=-1530/207, 6-7=-1796/250, 7-8=-1796/250, 8-9=-1578/252, 9-10=-1552/218
 BOT CHORD 2-18=-820/101, 17-18=-933/120, 16-17=-217/718, 15-16=-284/1394, 14-15=-249/1472, 13-14=-212/1558, 12-13=-178/918
 WEBS 3-18=-1984/344, 3-17=-220/1716, 5-17=-1024/226, 5-16=-82/791, 6-16=-398/118, 6-15=-109/946, 7-15=-378/121, 8-15=-128/582, 9-14=-365/65, 9-13=-598/144, 10-13=-59/1070, 10-12=-1428/200

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 19-0-0, Zone2 19-0-0 to 23-2-15, Zone1 23-2-15 to 29-7-0, Zone3 29-7-0 to 32-11-0, Zone1 32-11-0 to 41-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 12, 157 lb uplift at joint 2 and 106 lb uplift at joint 18.



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

October 7, 2025

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

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

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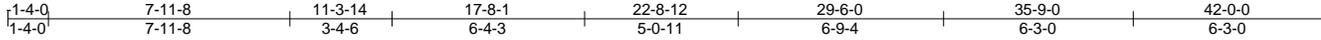
Job 6252400	Truss A08	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	2169-CR	T38758767
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:10 2025 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-sVoo?bWrcqdAKHb2Nqf5ga87gPv7XG2BlszEqFyWAwp

Job Reference (optional)



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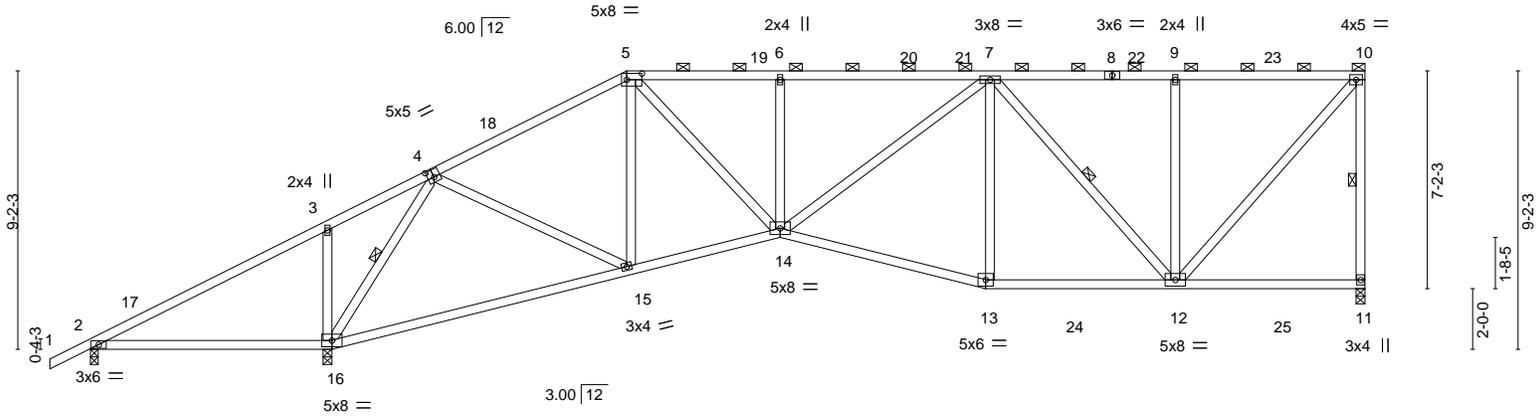


Plate Offsets (X,Y)--	[4:0-2-8,0-3-0], [5:0-6-0,0-2-8]
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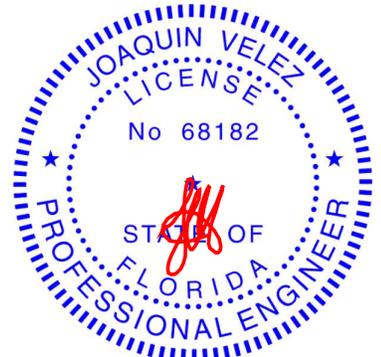
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.92	Vert(LL) -0.26	15-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(CT) -0.53	15-16	>763	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.46	Horz(CT) 0.09	11	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.05	14	>999	240	Weight: 251 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-14 max.): 5-10.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 4-4-5 oc bracing: 2-16.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 10-11, 4-16, 7-12

REACTIONS. (size) 11=0-3-8, 2=0-3-1, 16=0-3-8
 Max Horz 2=250(LC 9)
 Max Uplift 11=-56(LC 12), 2=-206(LC 24), 16=-111(LC 12)
 Max Grav 11=1413(LC 17), 2=70(LC 9), 16=2507(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-311/1133, 3-4=-225/1043, 4-5=-1455/136, 5-6=-2013/183, 6-7=-2013/183,
 7-9=-1067/159, 9-10=-1067/159, 10-11=-1291/137
 BOT CHORD 2-16=-903/85, 15-16=-210/259, 14-15=-258/1314, 13-14=-219/1633, 12-13=-205/1561
 WEBS 3-16=-401/134, 4-16=-2122/278, 4-15=-58/1189, 5-15=-513/146, 5-14=-103/1125,
 6-14=-385/110, 7-14=-137/610, 7-12=-762/84, 9-12=-389/120, 10-12=-120/1546

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 17-8-1, Zone2 17-8-1 to 21-10-15, Zone1 21-10-15 to 41-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 11, 206 lb uplift at joint 2 and 111 lb uplift at joint 16.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

October 7, 2025

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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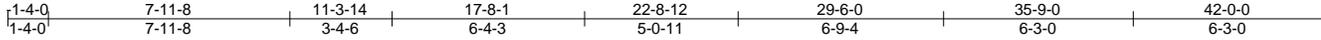
Job 6252400	Truss A09	Truss Type PIGGYBACK BASE	Qty 2	Ply 1	2169-CR	T38758768
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:10 2025 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-sVoo?bWrcqdAKHb2Nqf5ga87gPv7XG2BlszEqFyWAwp

Job Reference (optional)



Scale = 1:75.6

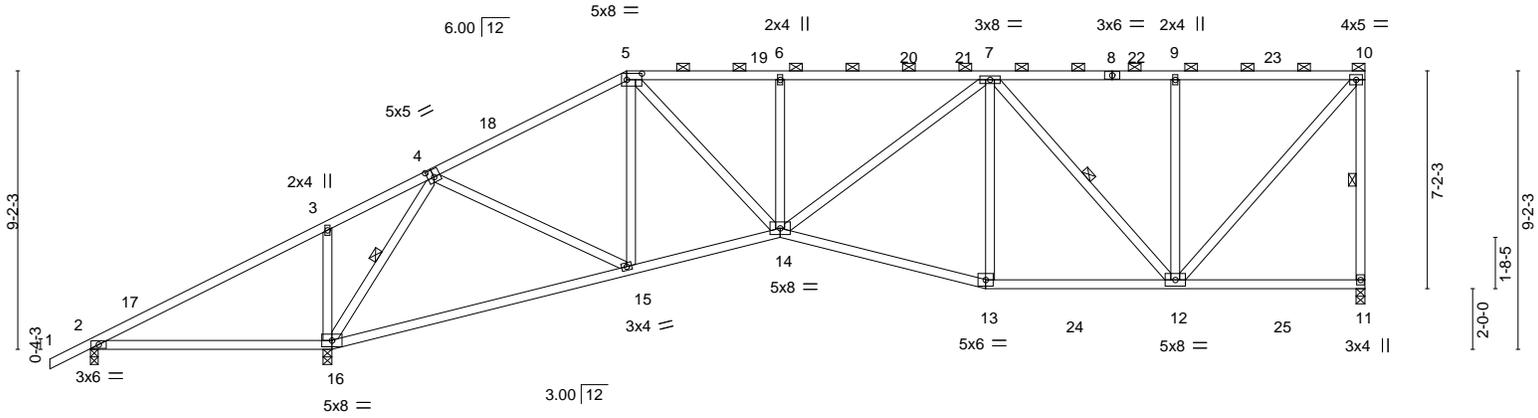


Plate Offsets (X,Y)--	[4:0-2-8,0-3-0], [5:0-6-0,0-2-8]
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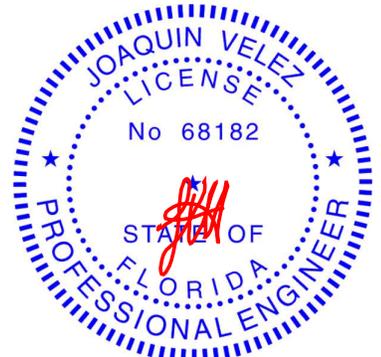
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.92	Vert(LL) -0.26 15-16 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(CT) -0.53 15-16 >763 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.46	Horz(CT) 0.09 11 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.05 14 >999 240	Weight: 251 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-14 max.): 5-10.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 4-4-5 oc bracing: 2-16.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 10-11, 4-16, 7-12

REACTIONS. (size) 11=0-3-8, 2=0-3-1, 16=0-3-8
 Max Horz 2=250(LC 9)
 Max Uplift 11=-56(LC 12), 2=-206(LC 24), 16=-111(LC 12)
 Max Grav 11=1413(LC 17), 2=70(LC 9), 16=2507(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-311/1133, 3-4=-225/1043, 4-5=-1455/136, 5-6=-2013/183, 6-7=-2013/183,
 7-9=-1067/159, 9-10=-1067/159, 10-11=-1291/137
 BOT CHORD 2-16=-903/85, 15-16=-210/259, 14-15=-258/1314, 13-14=-219/1633, 12-13=-205/1561
 WEBS 3-16=-401/134, 4-16=-2122/278, 4-15=-58/1189, 5-15=-513/146, 5-14=-103/1125,
 6-14=-385/110, 7-14=-137/610, 7-12=-762/84, 9-12=-389/120, 10-12=-120/1546

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 17-8-1, Zone2 17-8-1 to 21-10-15, Zone1 21-10-15 to 41-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 11, 206 lb uplift at joint 2 and 111 lb uplift at joint 16.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

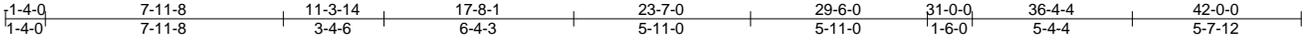
October 7, 2025

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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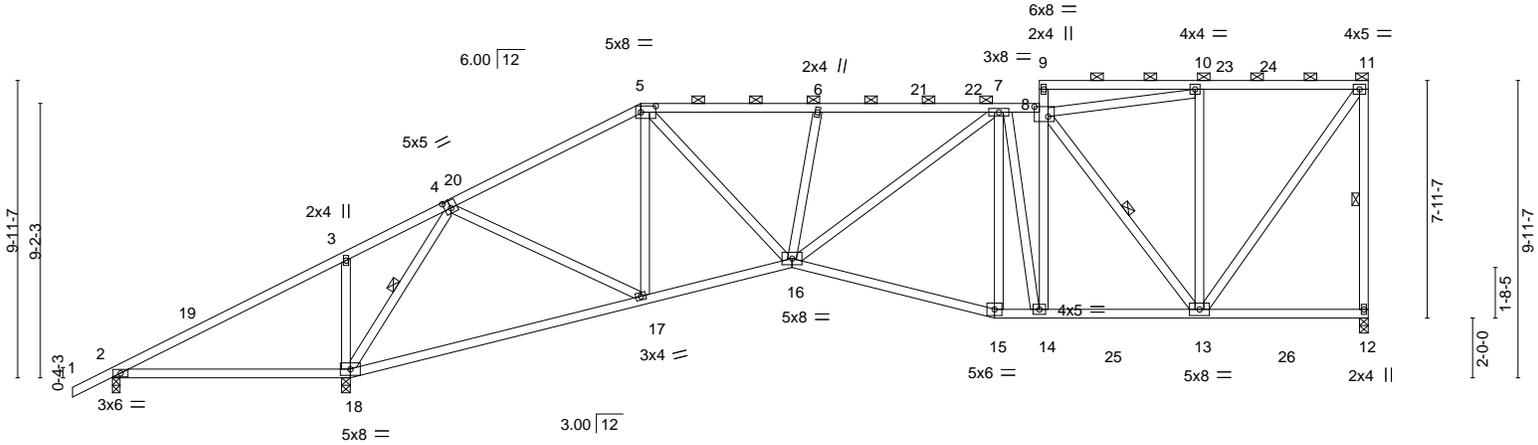
Job 6252400	Truss A10	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	2169-CR	T38758769
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:11 2025 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbylAWH-LiMADxXTN8I0yRAExXAKDohIMoF0GjHLWWjnNiyWawo



Scale = 1:76.7



7-9-12	7-1-8	17-8-1	22-8-12	29-6-0	31-0-0	36-4-4	42-0-0
7-9-12	0-1-12	9-8-9	5-0-11	6-9-4	1-6-0	5-4-4	5-7-12

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [5:0-6-0,0-2-8], [8:0-5-8,0-4-0]

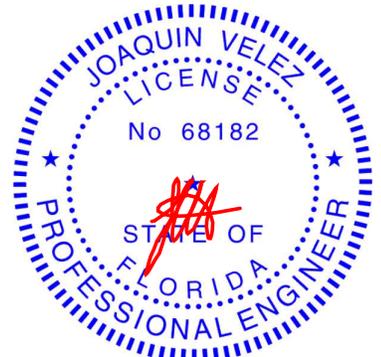
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.93	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(LL) -0.26 17-18 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.46	Vert(CT) -0.53 17-18 >762 240		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Horz(CT) 0.09 12 n/a n/a		
			Wind(LL) 0.16 2-18 >580 240	Weight: 281 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-8 max.): 5-8, 8-14, 9-11.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 4-3-12 oc bracing: 2-18.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 11-12, 4-18, 8-13

REACTIONS. (size) 12=0-3-8, 2=0-3-1, 18=0-3-8
 Max Horz 2=254(LC 12)
 Max Uplift 12=-71(LC 12), 2=-151(LC 18), 18=-216(LC 12)
 Max Grav 12=1410(LC 17), 18=2474(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-257/1145, 3-4=-161/1053, 4-5=-1455/149, 5-6=-1981/260, 6-7=-2034/283, 7-8=-1439/181, 8-14=-24/436, 10-11=-857/115, 11-12=-1298/193
 BOT CHORD 2-18=-875/36, 16-17=-176/1300, 15-16=-204/1595, 14-15=-190/1525, 13-14=-184/1452
 WEBS 3-18=-403/165, 4-18=-2135/277, 4-17=-81/1187, 5-17=-519/170, 5-16=-144/1074, 6-16=-383/140, 7-16=-119/660, 7-14=-338/52, 8-10=-742/64, 8-13=-971/112, 10-13=-288/146, 11-13=-197/1454

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 2-10-6, Zone1 2-10-6 to 17-8-1, Zone2 17-8-1 to 23-7-5, Zone1 23-7-5 to 31-1-12, Zone3 31-1-12 to 37-1-1, Zone1 37-1-1 to 41-10-4 zone; cantilever left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 12, 151 lb uplift at joint 2 and 216 lb uplift at joint 18.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

October 7, 2025

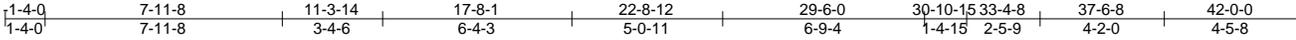
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 6252400	Truss A13	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	2169-CR	T38758771
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:12 2025 Page 1

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Scale = 1:76.9

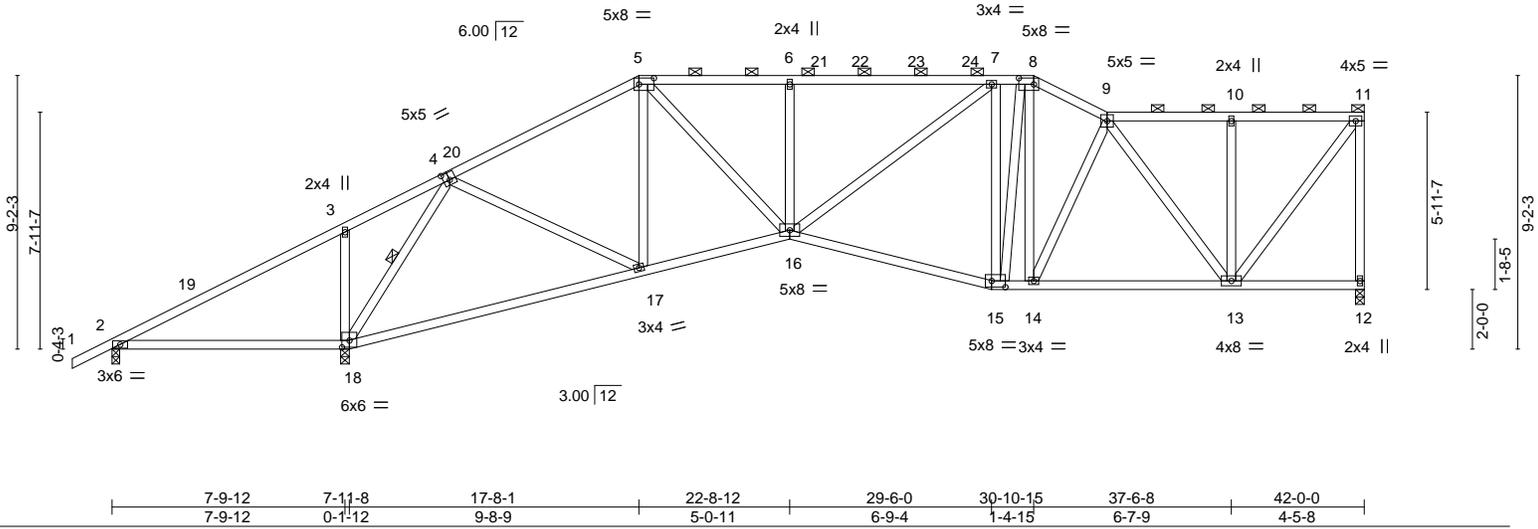


Plate Offsets (X,Y)--	[4:0-2-8,0-3-0],	[5:0-6-0,0-2-8],	[8:0-6-0,0-2-8],	[15:0-5-8,0-2-8],	[18:0-3-0,0-2-12]
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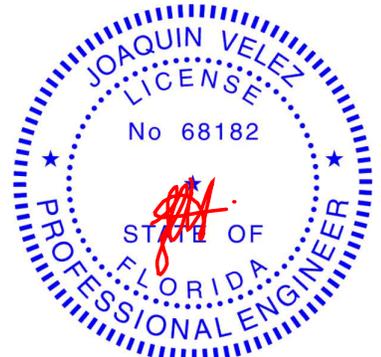
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.93	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.75	Vert(LL) -0.26 17-18 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.74	Vert(CT) -0.53 17-18 >764 240		
BCDL 10.0	Code FBC2023/TP12014	Matrix-S	Horz(CT) 0.09 12 n/a n/a		
			Wind(LL) 0.16 2-18 >580 240	Weight: 271 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-10 max.): 5-8, 9-11.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 5-4-6 oc bracing: 2-18.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-18

REACTIONS. (size) 12=0-3-8, 2=0-3-1, 18=0-3-8
 Max Horz 2=206(LC 12)
 Max Uplift 12=-61(LC 12), 2=-219(LC 24), 18=-213(LC 12)
 Max Grav 12=1246(LC 1), 18=2245(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-264/1034, 3-4=-177/958, 4-5=-1316/158, 5-6=-1813/276, 6-7=-1813/276,
 7-8=-1388/217, 8-9=-1481/200, 9-10=-848/107, 10-11=-848/107, 11-12=-1212/197
 BOT CHORD 2-18=-817/51, 16-17=-166/1124, 15-16=-198/1428, 14-15=-159/1297, 13-14=-177/1357
 WEBS 3-18=-402/163, 4-18=-1953/318, 4-17=-58/1052, 5-17=-519/154, 5-16=-142/1061,
 6-16=-389/139, 7-16=-83/600, 7-15=-757/226, 8-15=-138/540, 9-13=-858/124,
 10-13=-294/120, 11-13=-172/1387

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 2-10-6, Zone1 2-10-6 to 17-8-1, Zone2 17-8-1 to 23-7-5, Zone1 23-7-5 to 30-10-15, Zone3 30-10-15 to 33-4-8, Zone1 33-4-8 to 41-10-4 zone; cantilever left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 12, 219 lb uplift at joint 2 and 213 lb uplift at joint 18.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

October 7, 2025

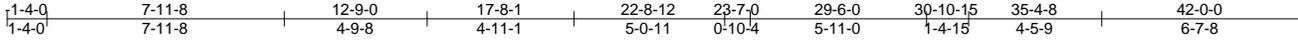
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 6252400	Truss A14	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	2169-CR	T38758772
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:13 2025 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-H4TxedYkvI?kBkKd2yColDmeycxukZ2e_qCuRayWAwM



Scale = 1:76.9

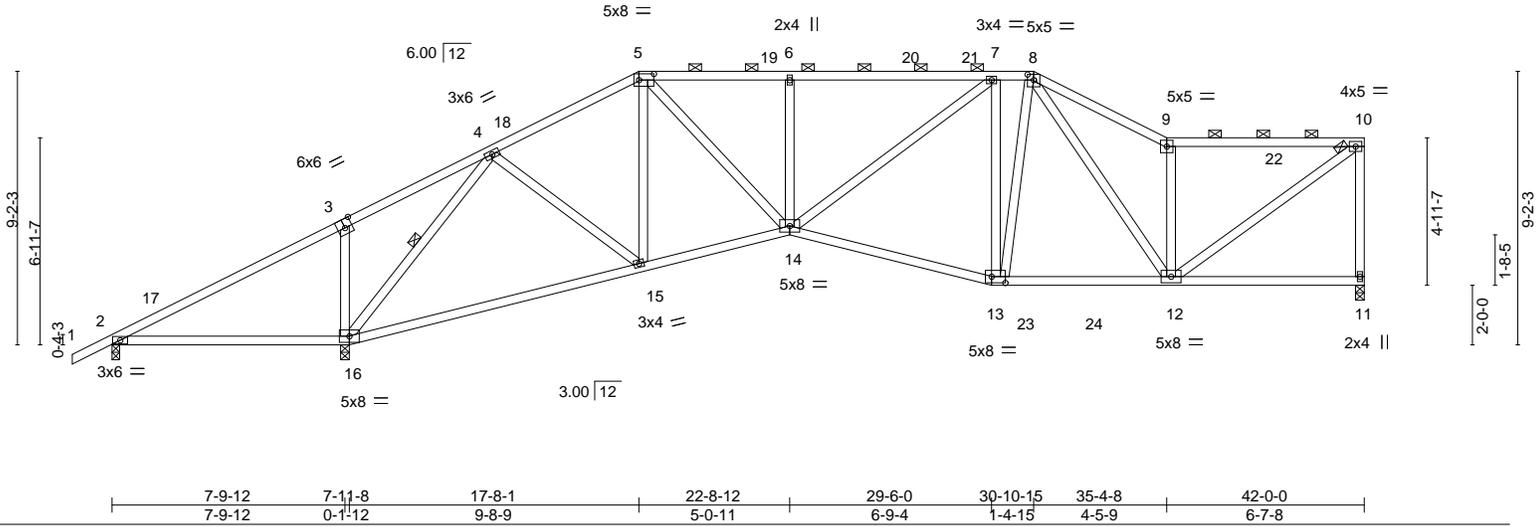


Plate Offsets (X,Y)--	[3:0-3-0,Edge], [5:0-6-0,0-2-8], [8:0-2-8,0-2-4], [13:0-5-8,0-2-8]
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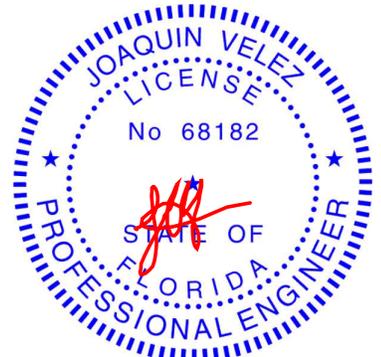
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.92	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(LL) -0.26 15-16 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.70	Vert(CT) -0.54 15-16 >754 240		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Horz(CT) 0.10 11 n/a n/a		
			Wind(LL) 0.06 14 >999 240	Weight: 253 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-10-9 max.): 5-8, 9-10.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 4-5-15 oc bracing: 2-16.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-16

REACTIONS. (size) 11=0-3-8, 2=0-3-1, 16=0-3-8
 Max Horz 2=202(LC 11)
 Max Uplift 11=-54(LC 12), 2=-208(LC 24), 16=-114(LC 12)
 Max Grav 11=1361(LC 19), 2=47(LC 9), 16=2482(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-280/1104, 3-4=-189/1038, 4-5=-1420/181, 5-6=-1988/260, 6-7=-1988/261, 7-8=-1542/260, 8-9=-1846/309, 9-10=-1563/217, 10-11=-1263/186
 BOT CHORD 2-16=-890/129, 15-16=-204/606, 14-15=-223/1301, 13-14=-237/1606, 12-13=-208/1440
 WEBS 3-16=-447/153, 4-16=-2312/324, 4-15=-30/920, 5-15=-472/132, 5-14=-138/1124, 6-14=-392/126, 7-14=-103/629, 7-13=-743/208, 8-13=-82/597, 8-12=-92/300, 9-12=-1100/259, 10-12=-172/1858

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 17-8-1, Zone2 17-8-1 to 21-10-15, Zone1 21-10-15 to 30-10-15, Zone3 30-10-15 to 35-4-8, Zone1 35-4-8 to 41-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 11, 208 lb uplift at joint 2 and 114 lb uplift at joint 16.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

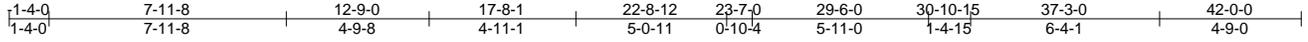
October 7, 2025

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 6252400	Truss A15	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	2169-CR	T38758773
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:13 2025 Page 1

ID:SuQVa2bJoYHjVzRq1hrfKbyIAWH-H4TxdYkvl?kBkKd2yColDme3cxEkZfe_qCuRayWAwmm



Scale = 1:76.9

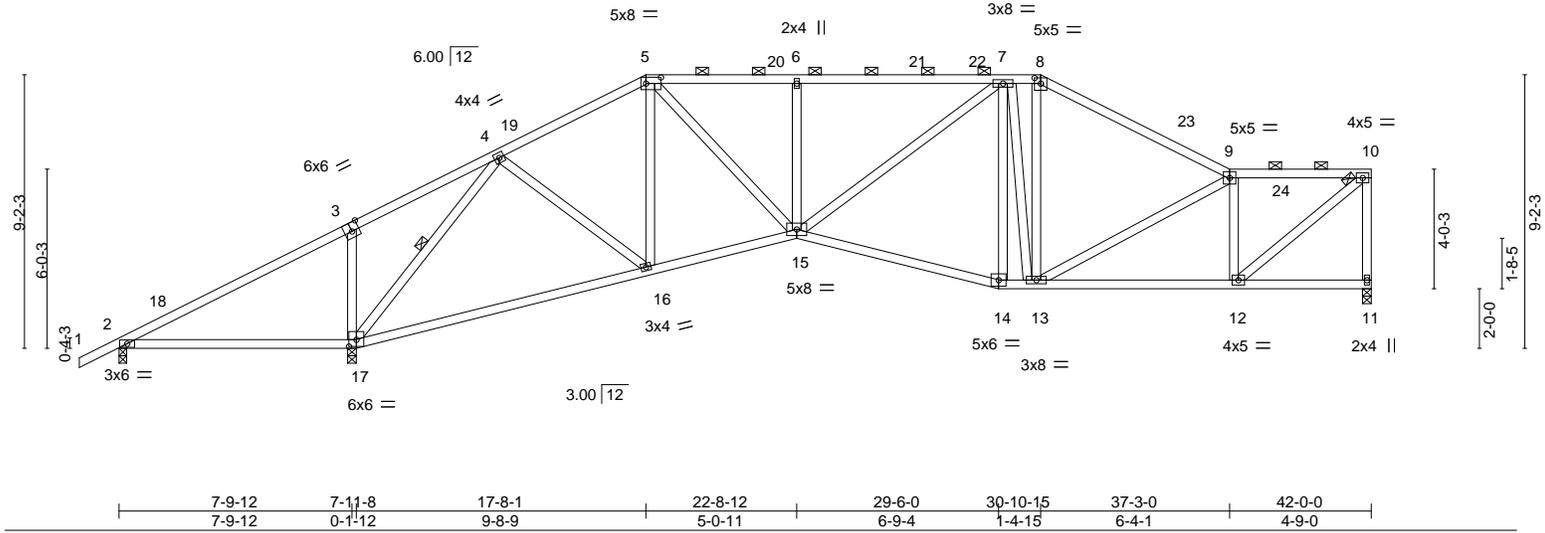


Plate Offsets (X,Y)--	[3:0-3-0,Edge], [5:0-6-0,0-2-8], [8:0-2-8,0-2-4], [17:0-3-0,0-2-12]
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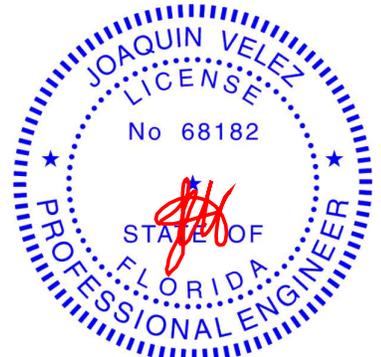
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.92	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.79	Vert(LL) -0.26 16-17 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.66	Vert(CT) -0.54 16-17 >757 240		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Horz(CT) 0.10 11 n/a n/a		
			Wind(LL) 0.06 15 >999 240	Weight: 256 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-7 max.): 5-8, 9-10.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 5-8-1 oc bracing: 2-17.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-17

REACTIONS. (size) 11=0-3-8, 2=0-3-1, 17=0-3-8
 Max Horz 2=189(LC 11)
 Max Uplift 11=-54(LC 12), 2=-195(LC 24), 17=-111(LC 12)
 Max Grav 11=1253(LC 1), 2=36(LC 9), 17=2209(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-248/962, 3-4=-157/916, 4-5=-1315/172, 5-6=-1840/265, 6-7=-1839/265,
 7-8=-1331/231, 8-9=-1561/209, 9-10=-1326/176, 10-11=-1214/168
 BOT CHORD 2-17=-753/109, 16-17=-177/528, 15-16=-188/1144, 14-15=-212/1439, 13-14=-197/1390,
 12-13=-180/1364
 WEBS 3-17=-446/152, 4-17=-2113/303, 4-16=-20/794, 5-16=-466/124, 5-15=-132/1064,
 6-15=-393/127, 7-15=-86/618, 7-14=-273/92, 7-13=-516/87, 8-13=-30/561,
 9-12=-979/187, 10-12=-168/1705

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 17-8-1, Zone2 17-8-1 to 21-10-15, Zone1 21-10-15 to 30-10-15, Zone2 30-10-15 to 35-1-14, Zone1 35-1-14 to 41-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 11, 195 lb uplift at joint 2 and 111 lb uplift at joint 17.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

October 7, 2025

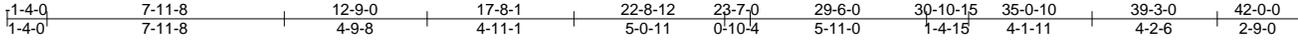
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 6252400	Truss A16	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	2169-CR	T38758774
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:14 2025 Page 1

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Scale = 1:76.9

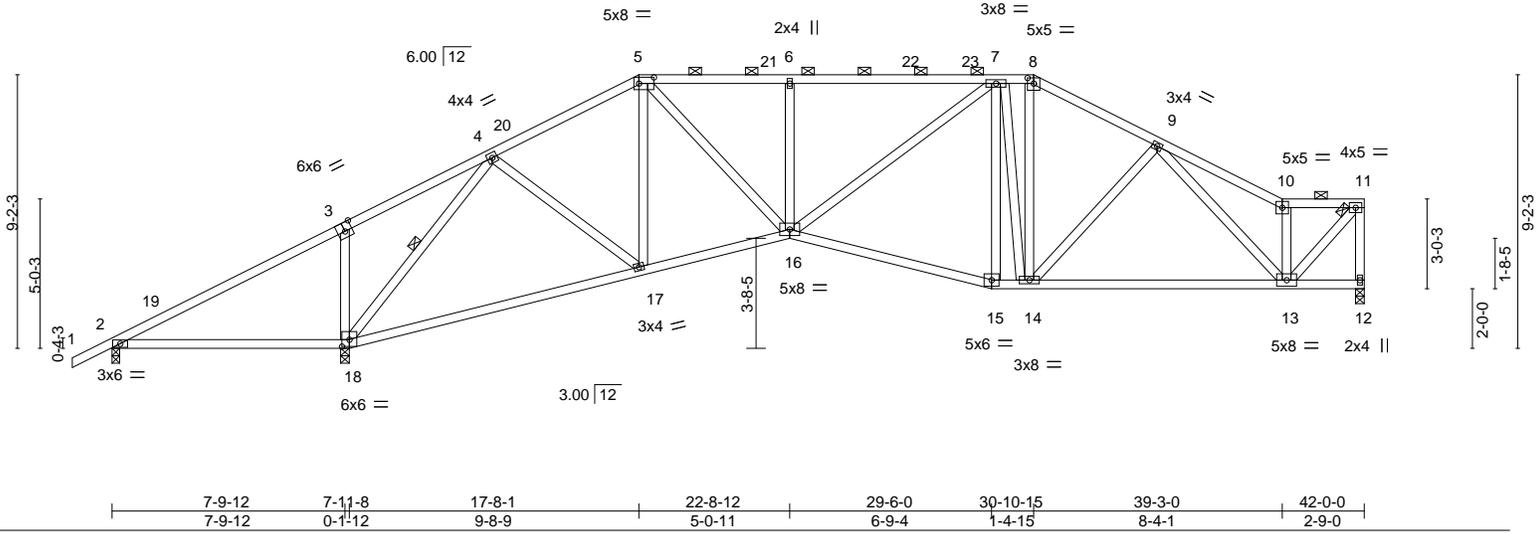


Plate Offsets (X,Y)--	[3:0-3-0,Edge], [5:0-6-0,0-2-8], [8:0-2-8,0-2-4], [18:0-3-0,0-2-12]
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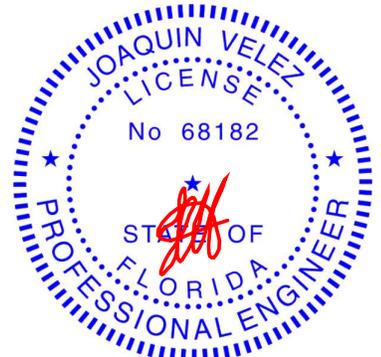
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.91	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.79	Vert(LL) -0.26 17-18 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.66	Vert(CT) -0.54 17-18 >758 240		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Horz(CT) 0.10 12 n/a n/a		
			Wind(LL) 0.06 16 >999 240	Weight: 258 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-7 max.): 5-8, 10-11.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 5-9-2 oc bracing: 2-18.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-18

REACTIONS. (size) 12=0-3-8, 2=0-3-1, 18=0-3-8
 Max Horz 2=175(LC 11)
 Max Uplift 12=-54(LC 12), 2=-185(LC 24), 18=-109(LC 12)
 Max Grav 12=1256(LC 1), 2=28(LC 9), 18=2195(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-217/937, 3-4=-126/891, 4-5=-1326/172, 5-6=-1849/263, 6-7=-1849/263,
 7-8=-1332/218, 8-9=-1539/213, 9-10=-1305/166, 10-11=-1085/113, 11-12=-1263/126
 BOT CHORD 2-18=-730/103, 17-18=-144/543, 16-17=-146/1155, 15-16=-179/1445, 14-15=-165/1396,
 13-14=-184/1397
 WEBS 3-18=-446/152, 4-18=-2100/280, 4-17=-8/788, 5-17=-461/114, 5-16=-122/1063,
 6-16=-391/126, 7-16=-66/623, 7-15=-318/58, 7-14=-498/134, 8-14=-89/639,
 9-13=-405/93, 10-13=-752/120, 11-13=-122/1604

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 17-8-1, Zone2 17-8-1 to 21-10-15, Zone1 21-10-15 to 30-10-15, Zone2 30-10-15 to 35-0-10, Zone1 35-0-10 to 41-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 12, 185 lb uplift at joint 2 and 109 lb uplift at joint 18.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

October 7, 2025

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 6252400	Truss A19	Truss Type HALF HIP	Qty 1	Ply 1	2169-CR	T38758777
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:16 2025 Page 1

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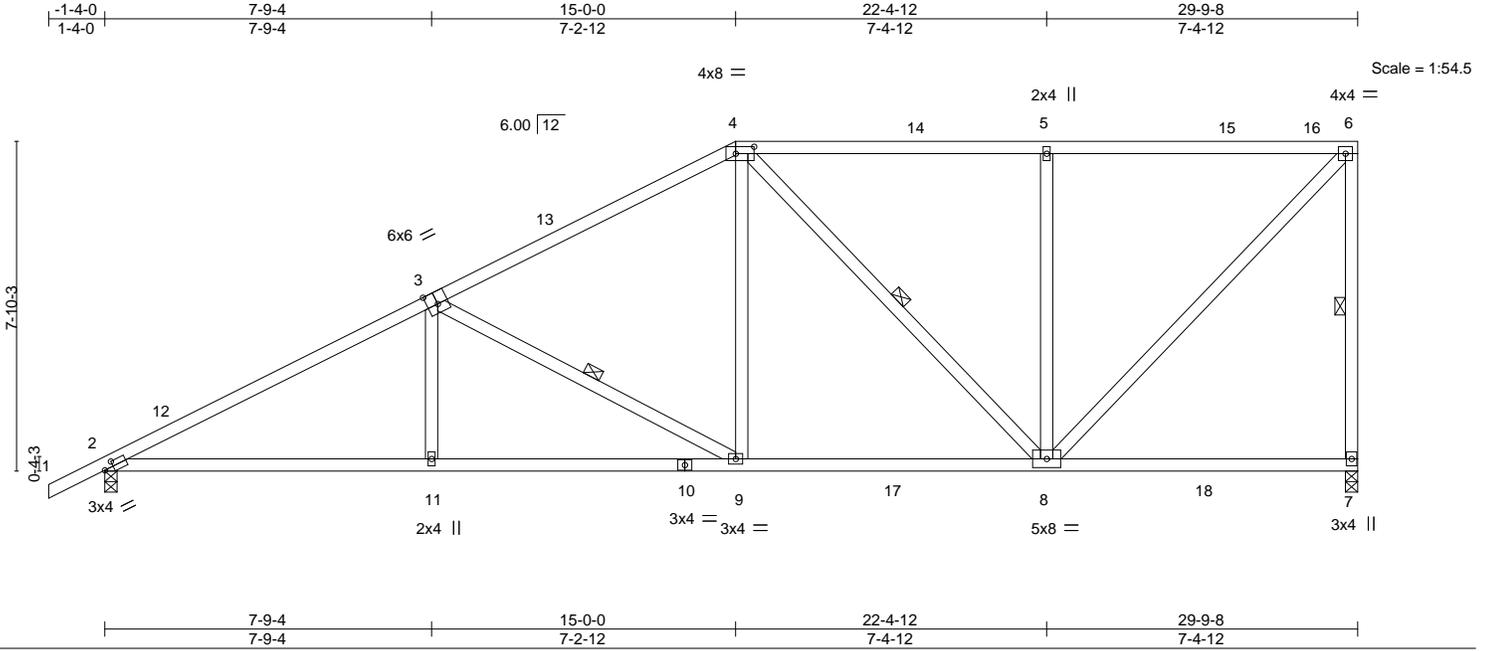


Plate Offsets (X,Y)-- [2:0-2-10,0-1-8], [3:0-3-0,Edge], [4:0-5-4,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.84	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.94	Vert(LL) -0.15 2-11 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.52	Vert(CT) -0.29 2-11 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 7 n/a n/a		
	Code FBC2023/TPI2014		Wind(LL) 0.05 2-11 >999 240	Weight: 173 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 6-7, 3-9, 4-8

REACTIONS.

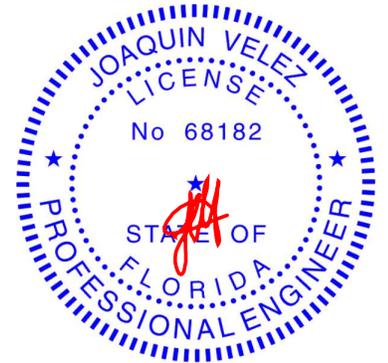
(size) 7=0-3-8, 2=0-3-8
 Max Horz 2=235(LC 9)
 Max Uplift 7=-65(LC 9), 2=-90(LC 12)
 Max Grav 7=1371(LC 17), 2=1419(LC 17)

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

TOP CHORD 2-3=-2373/158, 3-4=-1590/174, 4-5=-1033/174, 5-6=-1033/174, 6-7=-1223/162
 BOT CHORD 2-11=-341/2114, 9-11=-343/2108, 8-9=-242/1397
 WEBS 3-11=0/332, 3-9=-824/115, 4-9=0/677, 4-8=-478/90, 5-8=-515/148, 6-8=-150/1485

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-7-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 7 and 90 lb uplift at joint 2.



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

October 7, 2025

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

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

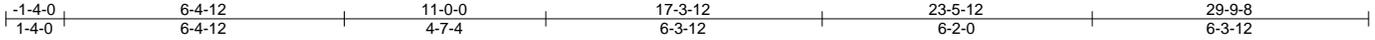
MiTek®

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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 6252400	Truss A21	Truss Type HALF HIP	Qty 1	Ply 1	2169-CR	T38758779
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:17 2025 Page 1

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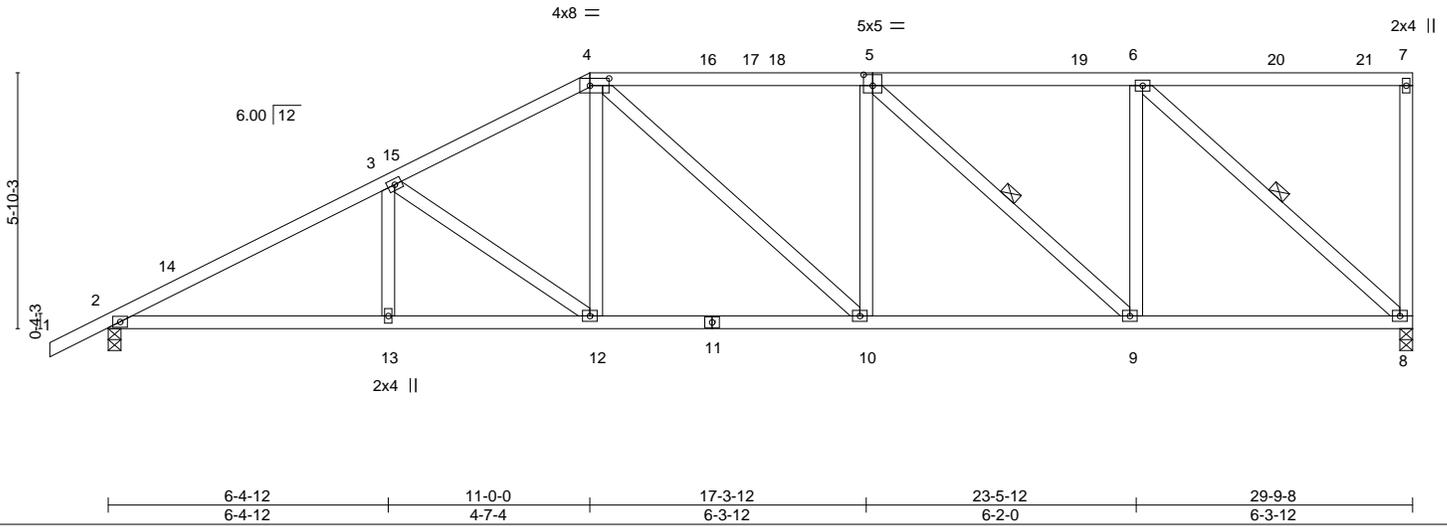


Plate Offsets (X,Y)-- [4:0-5-4,0-2-0], [5:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.67	Vert(LL) -0.08 12 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.46	Vert(CT) -0.19 10-12 >999 240		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Horz(CT) 0.07 8 n/a n/a		
			Wind(LL) 0.05 12 >999 240	Weight: 172 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 3-1-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-9, 6-8

REACTIONS.

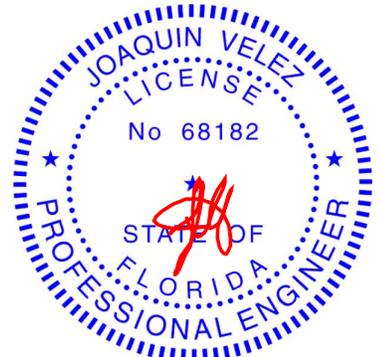
(size) 8=0-3-8, 2=0-3-8
 Max Horz 2=175(LC 9)
 Max Uplift 8=-52(LC 12), 2=-92(LC 12)
 Max Grav 8=1178(LC 1), 2=1271(LC 1)

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

TOP CHORD 2-3=-2163/156, 3-4=-1712/176, 4-5=-1563/185, 5-6=-1082/152
 BOT CHORD 2-13=-310/1849, 12-13=-310/1849, 10-12=-242/1476, 9-10=-215/1562, 8-9=-154/1082
 WEBS 3-12=-463/83, 4-12=0/405, 5-9=-653/82, 6-9=0/594, 6-8=-1434/129

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 29-7-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 8 and 92 lb uplift at joint 2.



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

October 7, 2025

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

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MiTek®

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 Chesterfield, MO 63017
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Job 6252400	Truss A22	Truss Type HALF HIP	Qty 1	Ply 1	2169-CR	T38758780
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:17 2025 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-9sjST_cEz_WAgMeOHOHkS3xN3DKygmHDvSA6aLyWAwI



Scale = 1:52.4

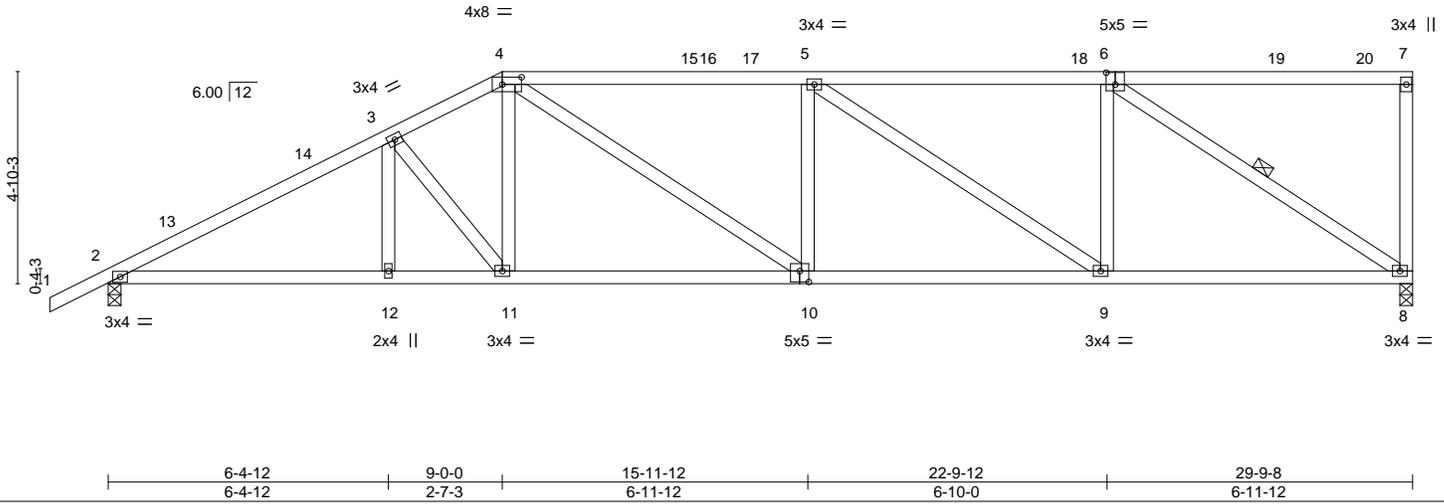


Plate Offsets (X,Y)-- [4:0-5-4,0-2-0], [6:0-2-8,0-3-4], [10:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.72	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.67	Vert(LL) -0.10 10 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.75	Vert(CT) -0.24 10-11 >999 240		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Horz(CT) 0.08 8 n/a n/a		
			Wind(LL) 0.06 10 >999 240	Weight: 163 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-9-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 6-8

REACTIONS.

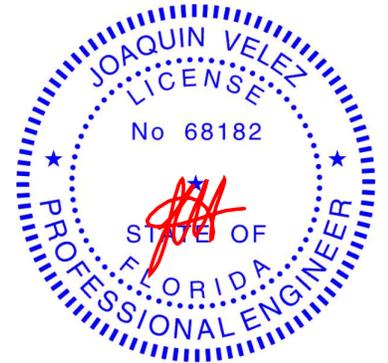
(size) 8=0-3-8, 2=0-3-8
 Max Horz 2=145(LC 9)
 Max Uplift 8=-52(LC 12), 2=-93(LC 12)
 Max Grav 8=1178(LC 1), 2=1271(LC 1)

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

TOP CHORD 2-3=-2157/157, 3-4=-1859/180, 4-5=-1966/196, 5-6=-1430/157
 BOT CHORD 2-12=-281/1842, 11-12=-281/1842, 10-11=-232/1631, 9-10=-224/1966, 8-9=-162/1430
 WEBS 3-11=-344/77, 4-11=-1/380, 4-10=-33/493, 5-9=-645/74, 6-9=0/560, 6-8=-1685/135

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 29-7-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 8 and 93 lb uplift at joint 2.



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

October 7, 2025

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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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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 6252400	Truss A23	Truss Type HALF HIP GIRDER	Qty 1	Ply 2	2169-CR	T38758781
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:19 2025 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbylAWH-6ErCugdUVbmvfnnPDJcXU0mQ12O8KkWMmfCfEyWAwg



Scale = 1:52.4

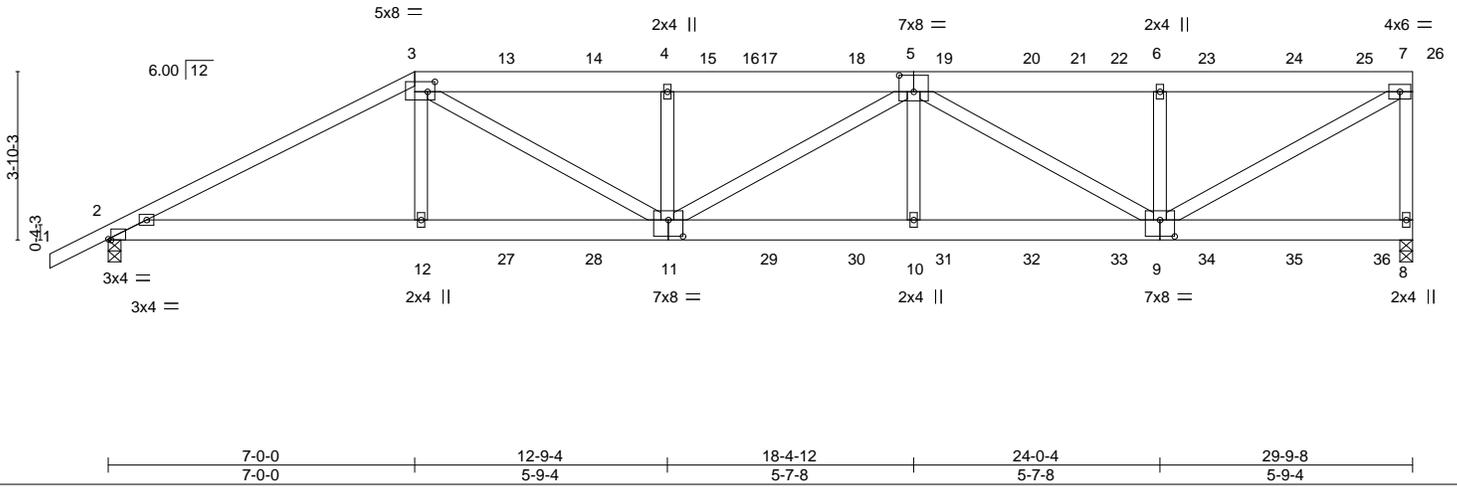


Plate Offsets (X,Y)-- [2:0-0-12,Edge], [3:0-2-0,0-2-12], [5:0-4-0,0-4-8], [9:0-4-0,0-4-8], [11:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.54	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.55	Vert(LL) -0.12 10-11 >999 360		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.49	Vert(CT) -0.24 10-11 >999 240		
BCDL 10.0	Code FBC2023/TP12014	Matrix-S	Horz(CT) 0.06 8 n/a n/a		
			Wind(LL) 0.08 10-11 >999 240	Weight: 390 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-3: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

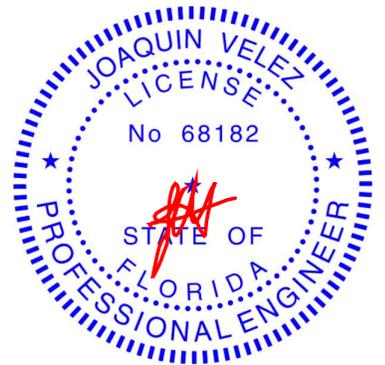
(size) 8=0-3-8, 2=0-3-8
Max Horz 2=111(LC 7)
Max Uplift 8=213(LC 8), 2=156(LC 8)
Max Grav 8=2571(LC 1), 2=2300(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4473/233, 3-4=-5462/418, 4-5=-5455/416, 5-6=-3496/313, 6-7=-3496/313, 7-8=-2430/280
BOT CHORD 2-12=-192/3916, 11-12=-183/3937, 10-11=-393/5248, 9-10=-393/5248
WEBS 3-12=0/692, 3-11=-223/1862, 4-11=-808/257, 5-10=0/475, 5-9=-2046/145, 6-9=-775/270, 7-9=-321/4022

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 8 and 156 lb uplift at joint 2.



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

October 7, 2025

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.

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR	T38758781
6252400	A23	HALF HIP GIRDER	1	2	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:19 2025 Page 2

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-6ErCugdUVbmvfnnPDJXU0mQ12O8KkWMmfCfEyWAwg

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 153 lb down and 93 lb up at 7-0-0, 134 lb down and 89 lb up at 9-0-12, 134 lb down and 89 lb up at 11-0-12, 134 lb down and 89 lb up at 13-0-12, 134 lb down and 89 lb up at 15-0-12, 134 lb down and 89 lb up at 17-0-12, 134 lb down and 89 lb up at 19-0-12, 134 lb down and 89 lb up at 21-0-12, 134 lb down and 89 lb up at 23-0-12, 134 lb down and 89 lb up at 25-0-12, and 134 lb down and 89 lb up at 27-0-12, and 147 lb down and 85 lb up at 29-0-12 on top chord, and 317 lb down at 7-0-0, 96 lb down at 9-0-12, 96 lb down at 11-0-12, 96 lb down at 13-0-12, 96 lb down at 15-0-12, 96 lb down at 17-0-12, 96 lb down at 19-0-12, 96 lb down at 21-0-12, 96 lb down at 23-0-12, 96 lb down at 25-0-12, and 96 lb down at 27-0-12, and 104 lb down at 29-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-60, 3-7=-60, 2-8=-20

Concentrated Loads (lb)

Vert: 3=-134(B) 12=-269(B) 11=-48(B) 4=-134(B) 13=-134(B) 14=-134(B) 17=-134(B) 18=-134(B) 19=-134(B) 20=-134(B) 22=-134(B) 23=-134(B) 24=-134(B) 26=-147(B) 27=-48(B) 28=-48(B) 29=-48(B) 30=-48(B) 31=-48(B) 32=-48(B) 33=-48(B) 34=-48(B) 35=-48(B) 36=-52(B)

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

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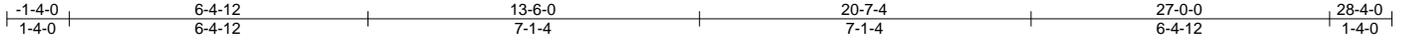
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 6252400	Truss B01	Truss Type COMMON	Qty 3	Ply 1	2169-CR	T38758782
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:19 2025 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-6ErCugdUVbmvfnPDJcXU0IB1e8HdWMmfcIEyWAwg

Job Reference (optional)



Scale = 1:49.1

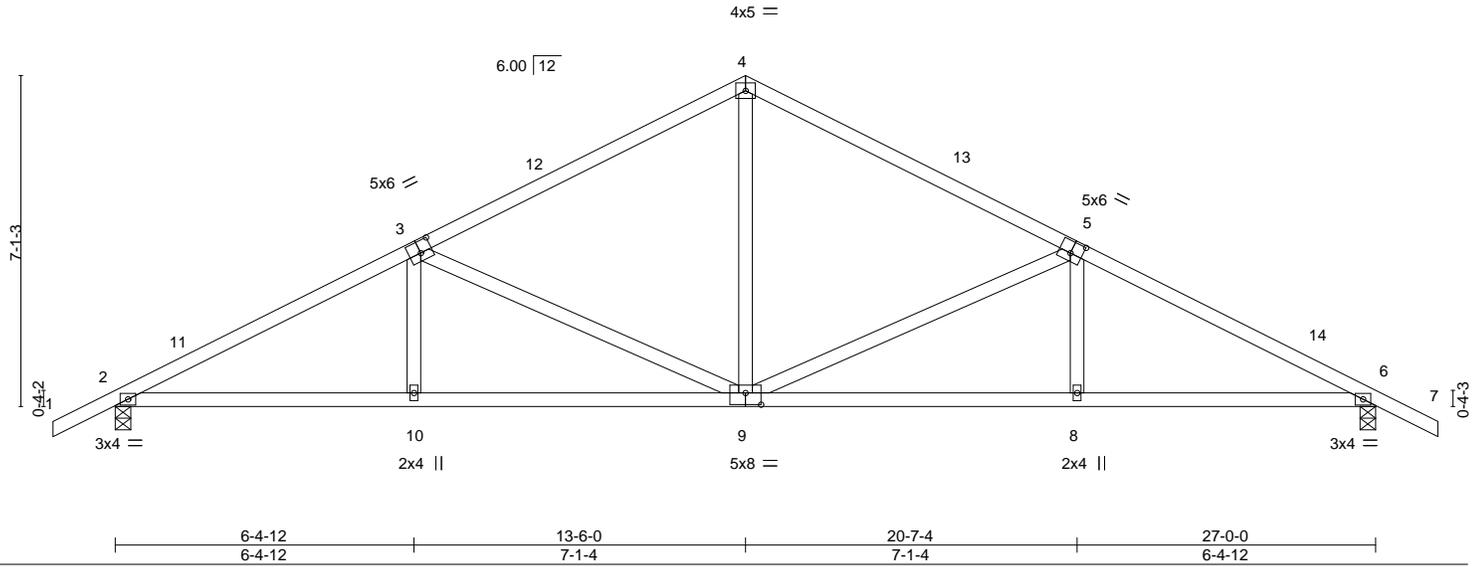


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-0-0,0-0-0], [9:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.62	Vert(LL) -0.08	9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.60	Vert(CT) -0.19	8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.69	Horz(CT) 0.07	6	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.11	8-9	>999	240		
							Weight: 131 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 3-10-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-4-12 oc bracing.

REACTIONS.

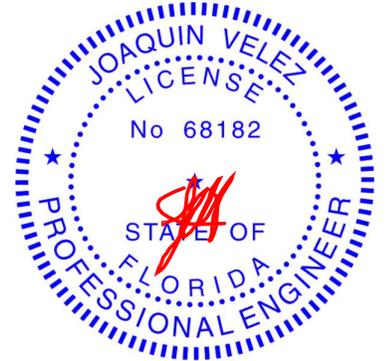
(size) 2=0-4-0, 6=0-4-0
Max Horz 2=125(LC 11)
Max Uplift 2=-318(LC 12), 6=-318(LC 12)
Max Grav 2=1157(LC 1), 6=1157(LC 1)

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

TOP CHORD 2-3=-1935/613, 3-4=-1299/466, 4-5=-1299/465, 5-6=-1935/613
BOT CHORD 2-10=-475/1652, 9-10=-473/1648, 8-9=-485/1648, 6-8=-486/1652
WEBS 4-9=-263/686, 5-9=-656/266, 5-8=-52/285, 3-9=-656/266, 3-10=-52/285

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 13-6-0, Zone2 13-6-0 to 17-8-15, Zone1 17-8-15 to 28-4-0 zone; cantilever left and right exposed; porch 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 318 lb uplift at joint 2 and 318 lb uplift at joint 6.



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

October 7, 2025

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Job	Truss	Truss Type	Qty	Ply	2169-CR	T38758783
6252400	B01X	GABLE	1	1		

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:20 2025 Page 1

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Scale: 1/4"=1'

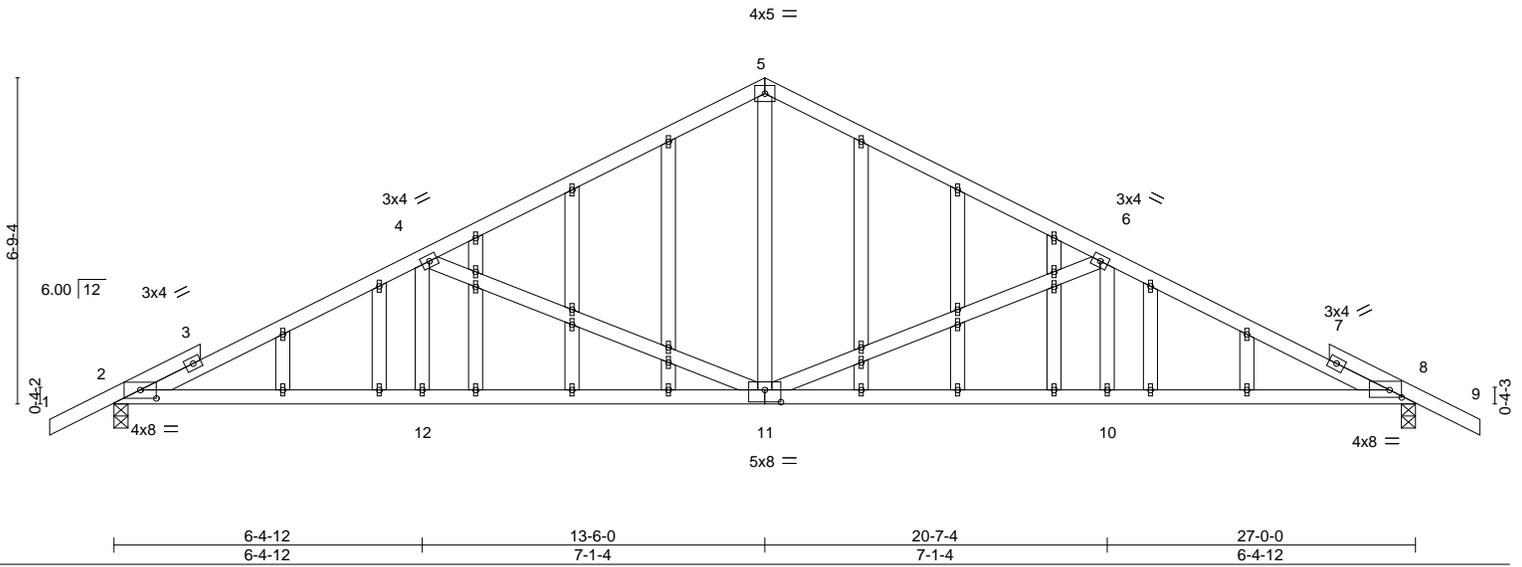


Plate Offsets (X,Y)-- [2:0-4-0,0-2-1], [8:0-3-0,0-1-14], [11:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.59	Vert(LL) -0.10	11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT) -0.23	11-12	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.82	Horz(CT) 0.08	8	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014	Matrix-S	Wind(LL) 0.07	11	>999	240	Weight: 179 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
2-5,5-8: 2x4 SP M 31 or 2x4 SP SS
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 3-6-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-5-7 oc bracing.

REACTIONS.

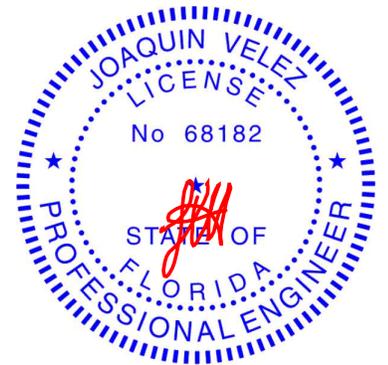
(size) 2=0-3-8, 8=0-3-8
Max Horz 2=120(LC 11)
Max Uplift 2=-88(LC 12), 8=-88(LC 12)
Max Grav 2=1157(LC 1), 8=1157(LC 1)

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

TOP CHORD 2-4=-2114/513, 4-5=-1367/385, 5-6=-1367/385, 6-8=-2113/513
BOT CHORD 2-12=-379/1871, 11-12=-379/1871, 10-11=-385/1870, 8-10=-385/1870
WEBS 4-12=0/290, 4-11=-804/289, 5-11=-131/755, 6-11=-803/289, 6-10=0/290

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=27ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TP1.
- 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 1x3 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 2 and 88 lb uplift at joint 8.



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

October 7, 2025

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MiTek®

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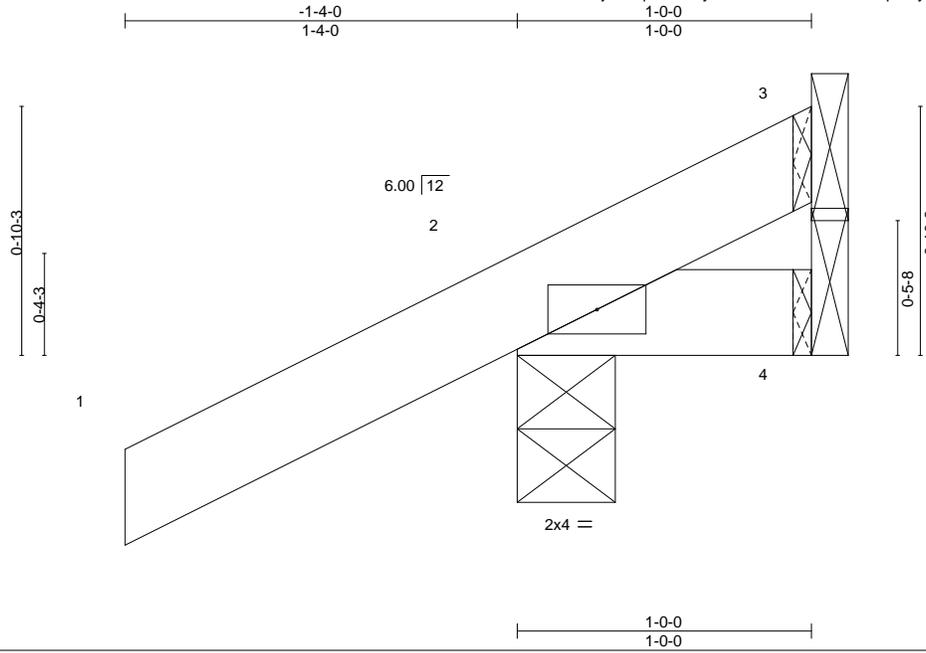
Job	Truss	Truss Type	Qty	Ply	2169-CR	T38758784
6252400	C1	CORNER JACK	12	1		

Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:20 2025 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbylAWH-aROa60e7GvulXpMzywrR4hZ2dRW1tuhgQOmBgyWAwf



Scale = 1:7.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.01	Vert(CT)	-0.00	2	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL)	0.00	2	****	240		
	Code FBC2023/TPI2014							Weight: 6 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 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

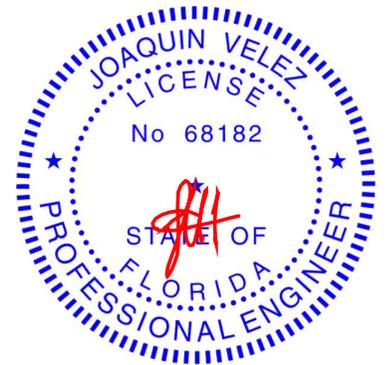
REACTIONS.

(size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=36(LC 12)
Max Uplift 3=-30(LC 1), 2=-72(LC 12)
Max Grav 3=24(LC 12), 2=179(LC 1), 4=19(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 3 and 72 lb uplift at joint 2.



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

October 7, 2025

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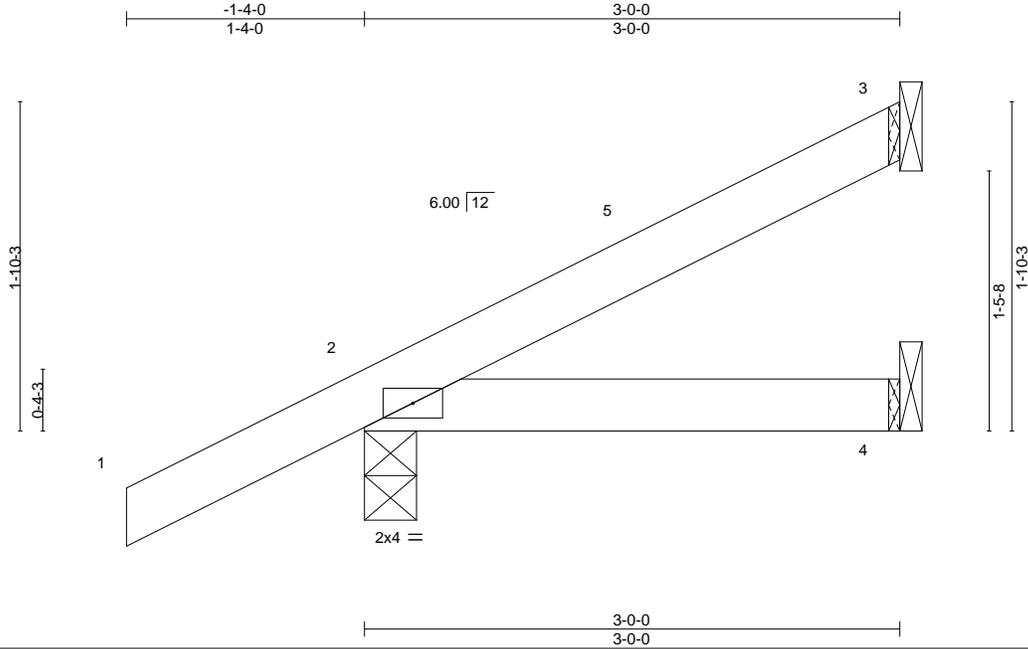
Job	Truss	Truss Type	Qty	Ply	2169-CR	T38758785
6252400	C3	CORNER JACK	10	1		

Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

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ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-2dyjJMf1D0c9zx9WeMgdv6C1qr1cLxpp48Jj7yWAwe



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	Vert(LL) -0.00	2-4	>999	360	MT20	244/190
TCDL 10.0	1.15	BC 0.09	Vert(CT) -0.01	2-4	>999	240		
BCLL 0.0 *	1.15	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL) 0.00	2	****	240		
	Code FBC2023/TPI2014						Weight: 12 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 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

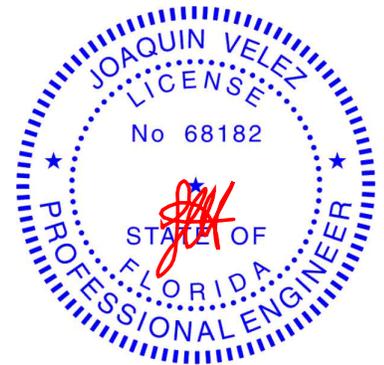
REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=59(LC 12)
Max Uplift 3=18(LC 12), 2=50(LC 12)
Max Grav 3=60(LC 1), 2=224(LC 1), 4=56(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 2-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 3 and 50 lb uplift at joint 2.



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

October 7, 2025

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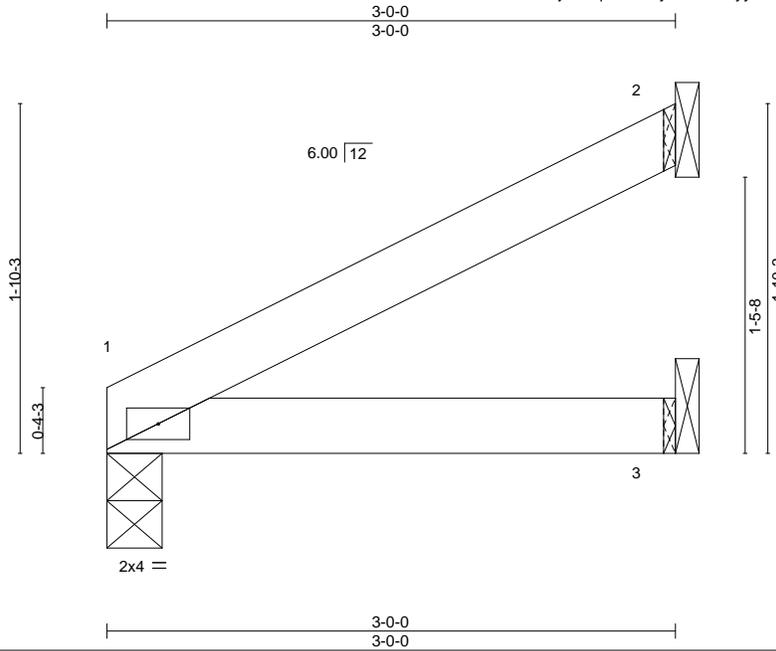
Job	Truss	Truss Type	Qty	Ply	2169-CR	T38758786
6252400	C3A	Corner Jack	2	1		

Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:21 2025 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-2dyyJMf1D0c9zx9WeMgdv6C9qr1cLxpp48J7yWAwe



Scale: 1"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) -0.00	1-3	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.01	1-3	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-P	Wind(LL) 0.00	1	****	240		
							Weight: 10 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 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

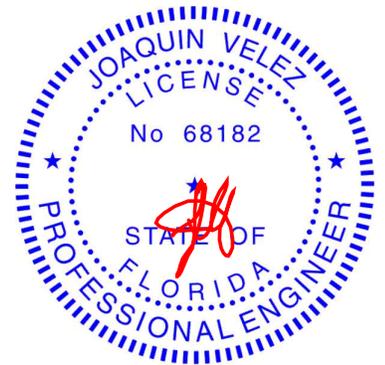
REACTIONS.

(size) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 1=36(LC 12)
Max Uplift 2=-31(LC 12)
Max Grav 1=112(LC 1), 2=84(LC 1), 3=56(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2.



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

October 7, 2025

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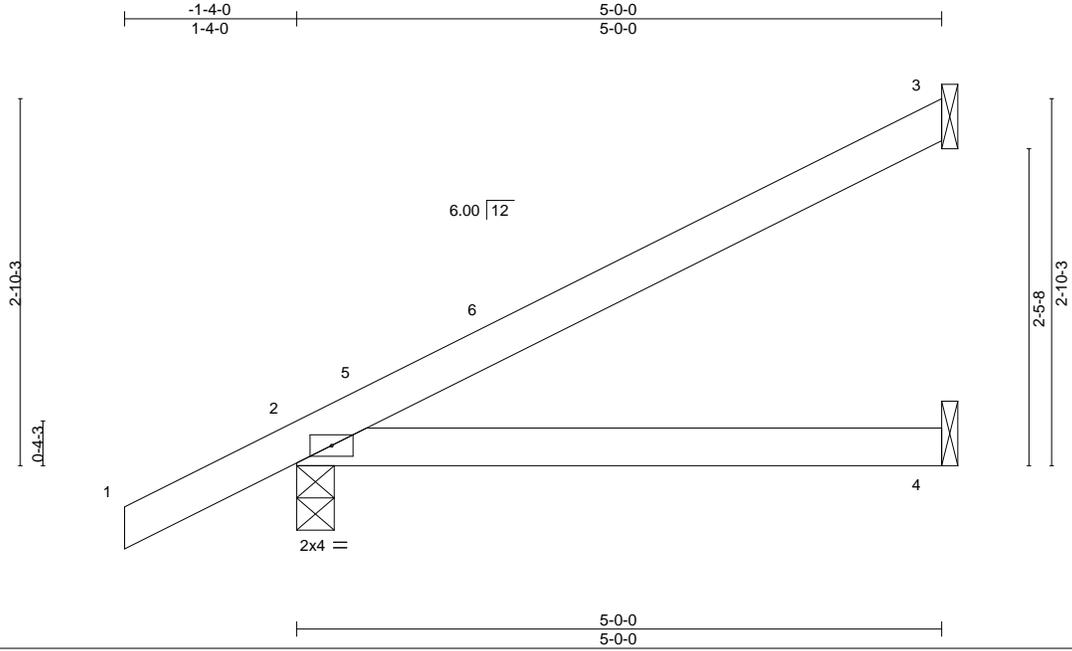
Job	Truss	Truss Type	Qty	Ply	2169-CR	T38758787
6252400	C5	JACK-OPEN	9	1		

Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:22 2025 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-WpWLVifNnW8Tn7WM4Ltv96eKKE8DLoBy2kttGZyWAwd



Scale = 1:17.8

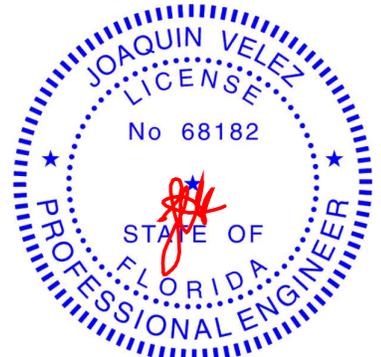
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.37	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.28	Vert(CT)	-0.06	2-4	>909	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL)	0.00	2	****	240		
	Code FBC2023/TPI2014							Weight: 18 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=83(LC 12)
 Max Uplift 3=-45(LC 12), 2=-42(LC 12)
 Max Grav 3=130(LC 1), 2=294(LC 1), 4=96(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 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
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 3 and 42 lb uplift at joint 2.



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

October 7, 2025

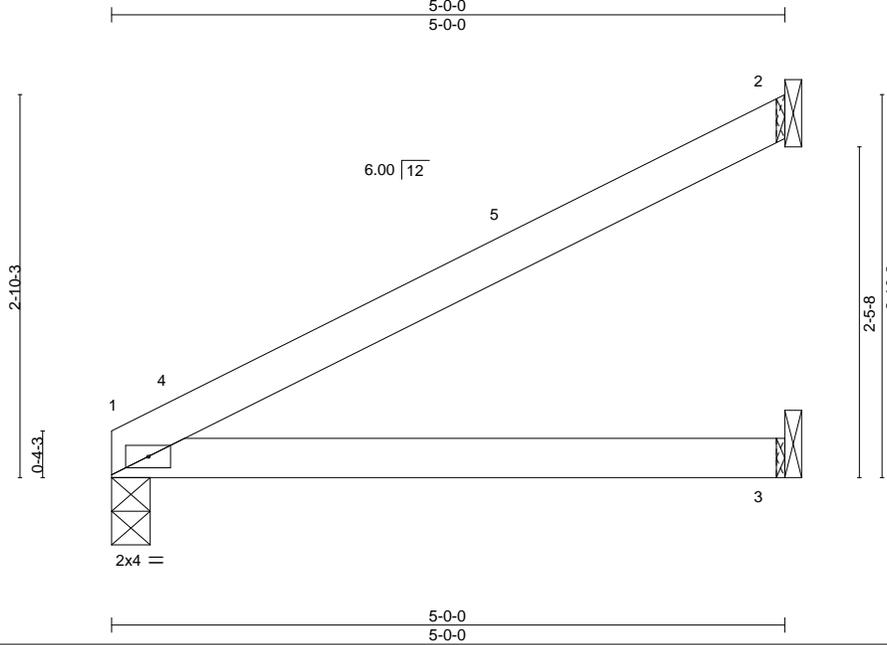
Job	Truss	Truss Type	Qty	Ply	2169-CR	T38758788
6252400	C5A	Corner Jack	1	1		

Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:22 2025 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-WpWLWifNnW8Tn7WM4Ltv96e1E8CLoBy2kttGZyWAwd



Scale = 1:17.0

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.03	1-3	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.28	Vert(CT) -0.06	1-3	>908	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-P	Wind(LL) 0.00	1	****	240		
							Weight: 16 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.

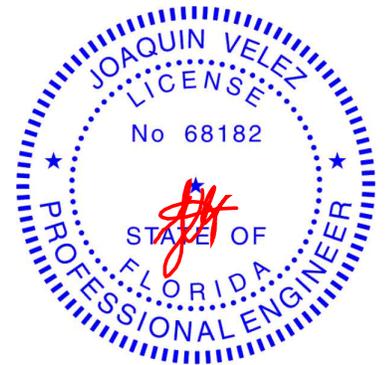
REACTIONS.

(size) 1=0-3-7, 2=Mechanical, 3=Mechanical
Max Horz 1=60(LC 12)
Max Uplift 2=53(LC 12)
Max Grav 1=192(LC 1), 2=144(LC 1), 3=96(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 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
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 2.



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Job	Truss	Truss Type	Qty	Ply	2169-CR	T38758789
6252400	D01	COMMON GIRDER	1	2	Job Reference (optional)	

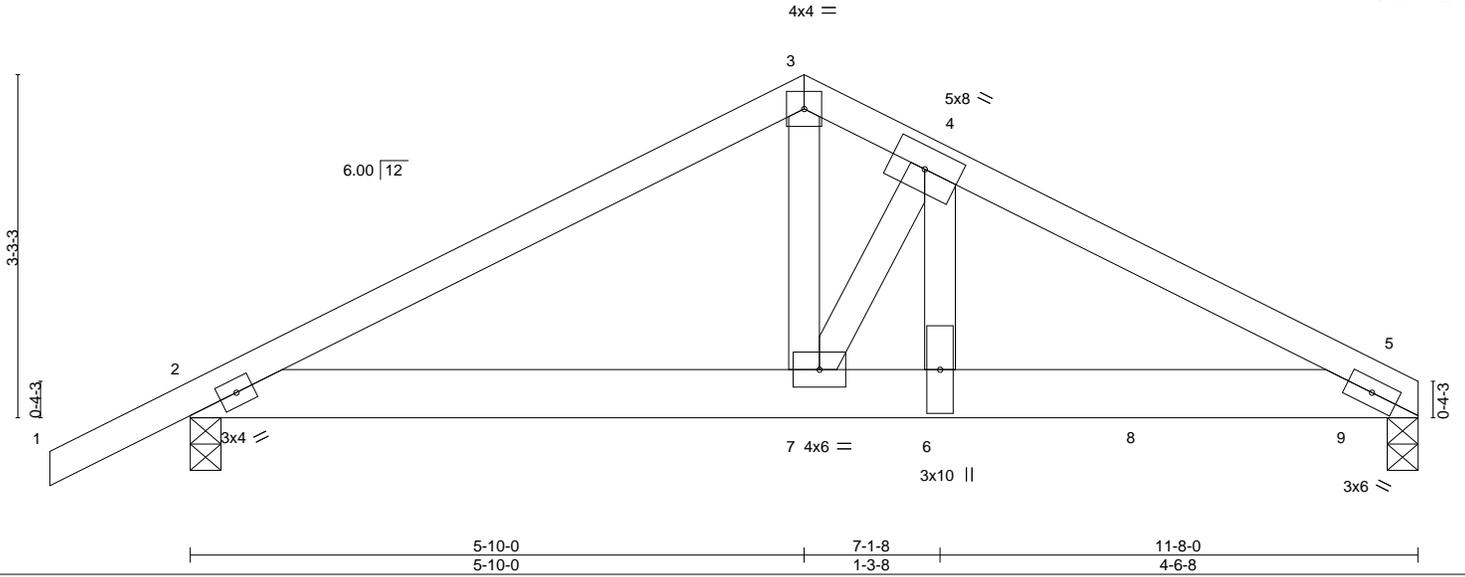
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:23 2025 Page 1

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Scale = 1:21.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.57	Vert(LL) -0.07	5-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.13	5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.63	Horz(CT) 0.02	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.04	5-6	>999	240		
							Weight: 118 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 2=0-3-8
 Max Horz 2=56(LC 26)
 Max Uplift 5=-360(LC 8), 2=-212(LC 8)
 Max Grav 5=5516(LC 1), 2=2351(LC 1)

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

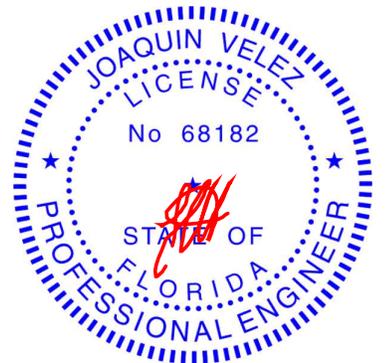
TOP CHORD 2-3=-4602/352, 3-4=-4498/369, 4-5=-7193/547
 BOT CHORD 2-7=-267/4035, 6-7=-455/6382, 5-6=-455/6382
 WEBS 3-7=-270/3803, 4-7=-4734/375, 4-6=-384/5158

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-2-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 360 lb uplift at joint 5 and 212 lb uplift at joint 2.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3569 lb down and 333 lb up at 7-1-8, and 1647 lb down and 92 lb up at 9-0-12, and 1652 lb down and 87 lb up at 11-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-5=-60, 2-5=-20



Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
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Continued on page 2

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

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

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 Chesterfield, MO 63017
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Job 6252400	Truss D01	Truss Type COMMON GIRDER	Qty 1	Ply 2	2169-CR Job Reference (optional)	T38758789
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:23 2025 Page 2
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-_?4jk1g?YqGJOH5Ye2O8iJBR?eNJ46Z6HOdQo?yWAwc

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 6--3569(B) 8--1647(B) 9--1652(B)

⚠ 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	2169-CR	T38758790
6252400	D02	COMMON	1	1		

Tibbetts Lumber Co., LLC (Ocala, FL),

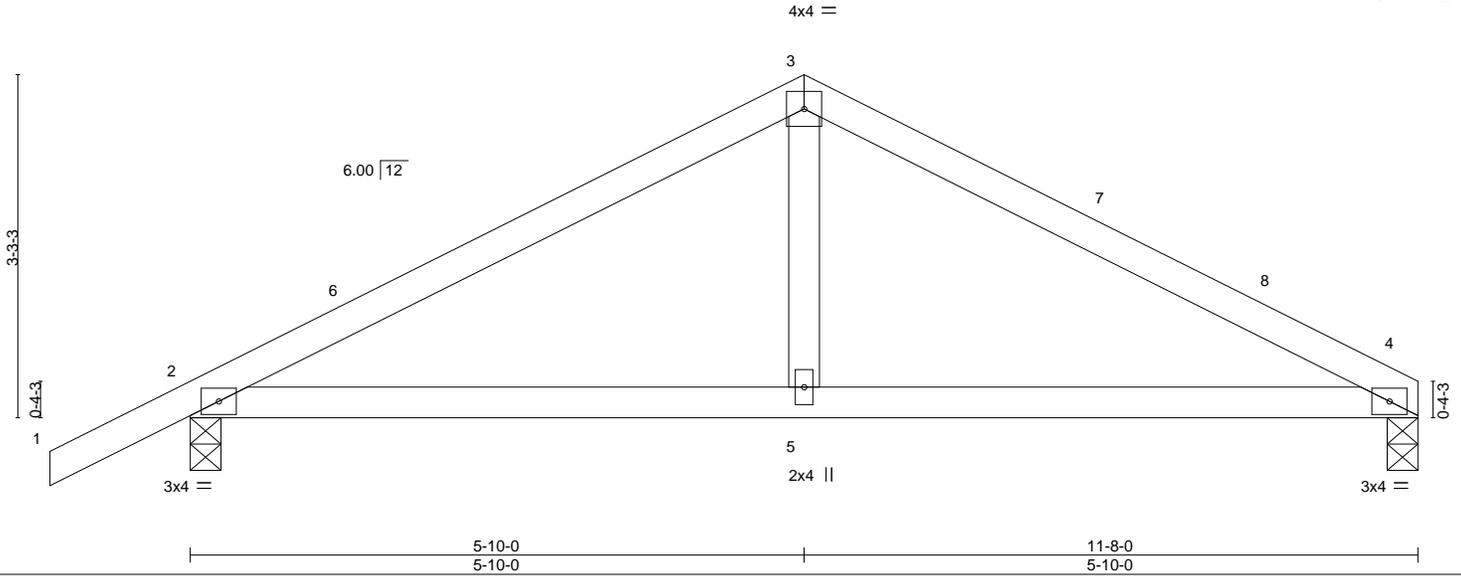
Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:23 2025 Page 1

ID:SuQVva2bJoYHjVzRq1hrHKbyIAWH_?4jk1g?YqGJOH5Ye2O8iJBSueS?4FT6HOdQo?yWAwc



Scale = 1:21.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.51	Vert(LL) -0.03	4-5	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.38	Vert(CT) -0.06	4-5	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Horz(CT) 0.01	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.02	4-5	>999	240		
	Code FBC2023/TPI2014						Weight: 43 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

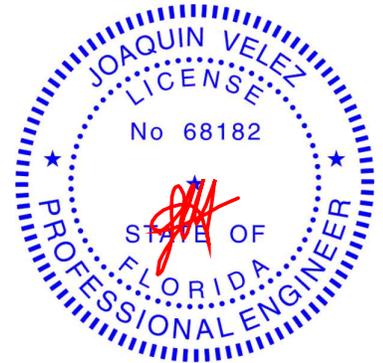
(size) 4=0-3-8, 2=0-3-8
 Max Horz 2=57(LC 11)
 Max Uplift 4=-17(LC 12), 2=-65(LC 12)
 Max Grav 4=449(LC 1), 2=550(LC 1)

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

TOP CHORD 2-3=-637/161, 3-4=-633/168
 BOT CHORD 2-5=-69/497, 4-5=-69/497
 WEBS 3-5=0/276

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.; GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 5-10-0, Zone2 5-10-0 to 10-0-15, Zone1 10-0-15 to 11-6-4 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 4 and 65 lb uplift at joint 2.



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

October 7, 2025

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Job	Truss	Truss Type	Qty	Ply	2169-CR	T38758791
6252400	D03	HIP GIRDER	1	1		

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:24 2025 Page 1

ID:SuQVa2bJoYHjVzRq1hrfHKbyIAWH-SCe5xNhdJ7OA0RgkBmvNEXkdN2nSpikFW2MzKRyWAwb



Scale = 1:21.2

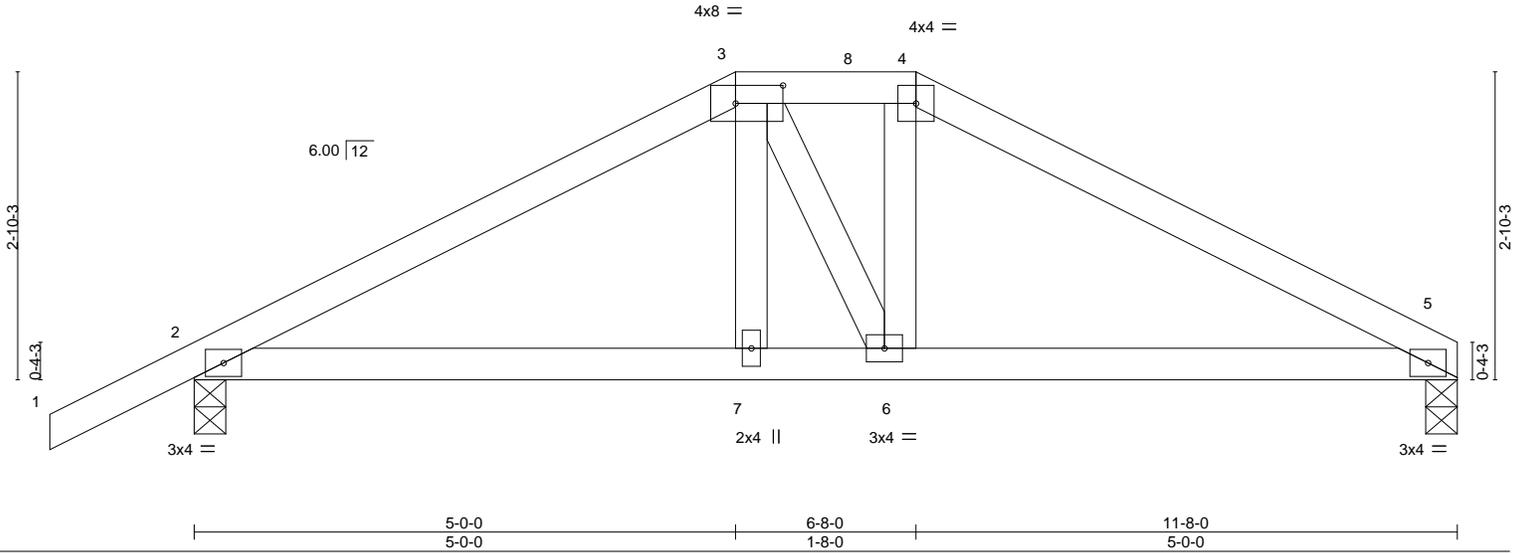


Plate Offsets (X,Y)-- [3:0-5-4,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.03	2-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) -0.06	5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.06	Horz(CT) 0.02	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.01	5-6	>999	240		
							Weight: 50 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 2=0-3-8
 Max Horz 2=50(LC 7)
 Max Uplift 5=-50(LC 8), 2=-87(LC 8)
 Max Grav 5=687(LC 1), 2=761(LC 1)

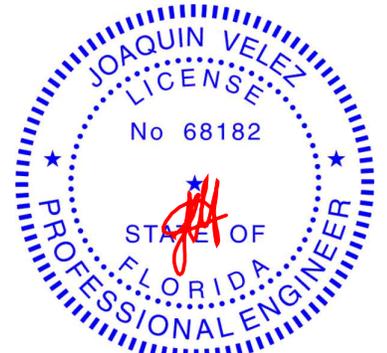
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1106/75, 3-4=-979/105, 4-5=-1167/102
 BOT CHORD 2-7=-25/917, 6-7=-21/925, 5-6=-51/976
 WEBS 3-7=0/266, 4-6=0/251

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 5 and 87 lb uplift at joint 2.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 89 lb down and 67 lb up at 5-0-0, and 292 lb down and 201 lb up at 6-8-0 on top chord, and 135 lb down at 5-0-0, and 135 lb down at 6-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-4=-60, 4-5=-60, 2-5=-20
 Concentrated Loads (lb)
 Vert: 3=-70(F) 4=-245(F) 7=-67(F) 6=-67(F)



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

October 7, 2025

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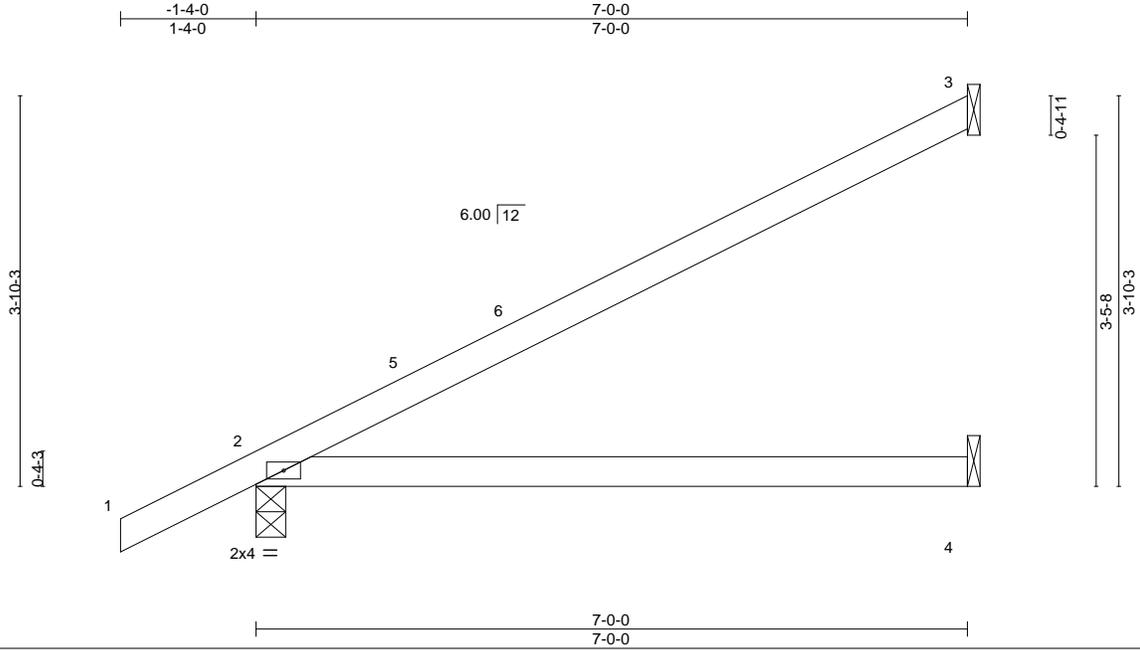
Job 6252400	Truss E7	Truss Type JACK-OPEN	Qty 34	Ply 1	2169-CR	T38758792
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Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:24 2025 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-SCe5xNhdJ7OAOrgkBmvNEXkXy2kgpigFW2MzKRyWAwb



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0 Plate Grip DOL 1.15	TC 0.87	Vert(LL) -0.13	2-4	>639	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.60	Vert(CT) -0.26	2-4	>319	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-P	Wind(LL) 0.00	2	****	240		
							Weight: 24 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=107(LC 12)
 Max Uplift 3=69(LC 12), 2=37(LC 12)
 Max Grav 3=194(LC 1), 2=370(LC 1), 4=136(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 6-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 3 and 37 lb uplift at joint 2.

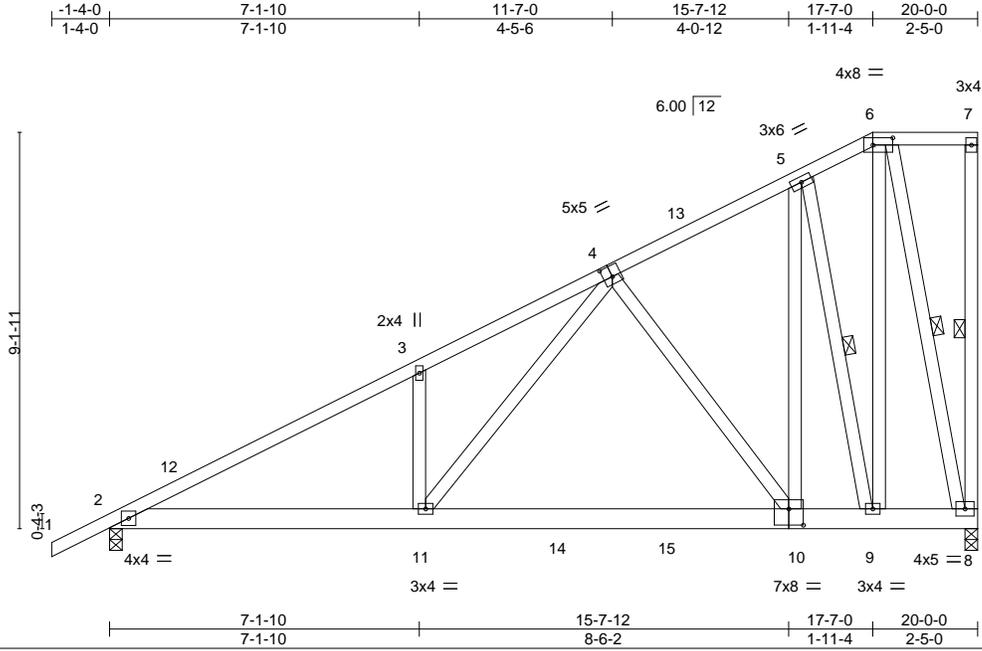


Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

October 7, 2025

Job 6252400	Truss G01	Truss Type HALF HIP	Qty 1	Ply 1	2169-CR	T38758793
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:25 2025 Page 1
 ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-wOCT9jiF4RW1eaFxiTQcnkGmqS3nYORPki6XsuyWAWa



Scale = 1:52.8

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [6:0-5-8,0-2-0], [10:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL)	-0.08 10-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT)	-0.24 10-11	>991	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.61	Horz(CT)	0.02 8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL)	0.03 11	>999	240		
							Weight: 167 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 3-9-11 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 7-8, 5-9, 6-8

REACTIONS.

(size) 8=0-3-8, 2=0-3-8
 Max Horz 2=273(LC 9)
 Max Grav 8=1124(LC 17), 2=1120(LC 17)

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

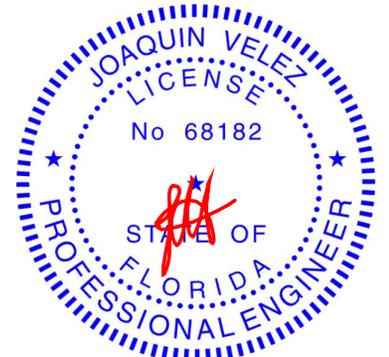
TOP CHORD 2-3=-1843/0, 3-4=-1837/0, 4-5=-675/0, 5-6=-357/110
 BOT CHORD 2-11=0/1657, 10-11=-11/987, 9-10=-12/553, 8-9=-70/286
 WEBS 3-11=-352/145, 4-11=0/1100, 4-10=-707/5, 5-10=0/1192, 5-9=-1258/0, 6-9=0/1018, 6-8=-1040/0

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 17-7-0, Zone3 17-7-0 to 19-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-60, 6-7=-60, 2-11=-20, 10-11=-60, 8-10=-20
- Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-50, 6-7=-50, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35
- Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-6=-20, 6-7=-20, 2-11=-40, 10-11=-80, 8-10=-40



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

October 7, 2025

Continued on page 2

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MiTek®

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 Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	2169-CR	T38758793
6252400	G01	HALF HIP	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:25 2025 Page 2

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-wOCT9jiF4RW1eaFxiTQcnkGmqS3nY0RPki6XsuyWAwa

LOAD CASE(S) Standard

- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=37, 2-12=21, 6-12=16, 6-7=21, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-46, 2-12=-30, 6-12=-25, 7-8=31
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-13=16, 6-13=21, 6-7=21, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-20, 2-13=-25, 6-13=-30, 7-8=-19
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-6=-32, 6-7=-32, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=-13, 2-6=12, 7-8=21
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-28, 2-6=-32, 6-7=-32, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=8, 2-6=12, 7-8=28
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-6=3, 6-7=8, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-24, 2-6=-11, 7-8=15
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-6=9, 6-7=18, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-13, 2-6=-17, 7-8=-13
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-6=-28, 6-7=-21, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=4, 2-6=8, 7-8=6
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-6=-12, 6-7=-21, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=-13, 2-6=-8, 7-8=-22
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-6=15, 6-7=15, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-37, 2-6=-24, 7-8=20
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-6=3, 6-7=3, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-24, 2-6=-11, 7-8=20
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-6=-21, 6-7=-21, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=-4, 2-6=1, 7-8=10
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-6=-21, 6-7=-21, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=-4, 2-6=1, 7-8=10
- 16) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-7=-20, 2-11=-40, 11-14=-80, 14-15=-100, 10-15=-80, 8-10=-40
- 17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-53, 2-6=-56, 6-7=-51, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35
Horz: 1-2=3, 2-6=6, 7-8=5
- 18) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-6=-44, 6-7=-51, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35
Horz: 1-2=-10, 2-6=-6, 7-8=-16
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-6=-51, 6-7=-51, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35
Horz: 1-2=-3, 2-6=1, 7-8=8
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-6=-51, 6-7=-51, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35
Horz: 1-2=-3, 2-6=1, 7-8=8
- 21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-6=-25, 6-7=-25, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-16, 2-6=16, 7-8=16

Continued on page 3

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	2169-CR	T38758793
6252400	G01	HALF HIP	1	1		

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:25 2025 Page 3
 ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-wOCT9jiF4RW1eaFxiTQcnkGmqS3nY0RPki6XsuyWAwa

LOAD CASE(S) Standard

- 22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-6=8, 6-7=8, 2-11=-12, 10-11=-52, 8-10=-12
 Horz: 1-6=-16, 7-8=16
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-60, 6-7=-60, 2-11=-20, 10-11=-60, 8-10=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-20, 6-7=-60, 2-11=-20, 10-11=-60, 8-10=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-50, 6-7=-50, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-20, 6-7=-50, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35

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

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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 6252400	Truss G02	Truss Type HALF HIP	Qty 1	Ply 1	2169-CR	T38758794
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:25 2025 Page 1

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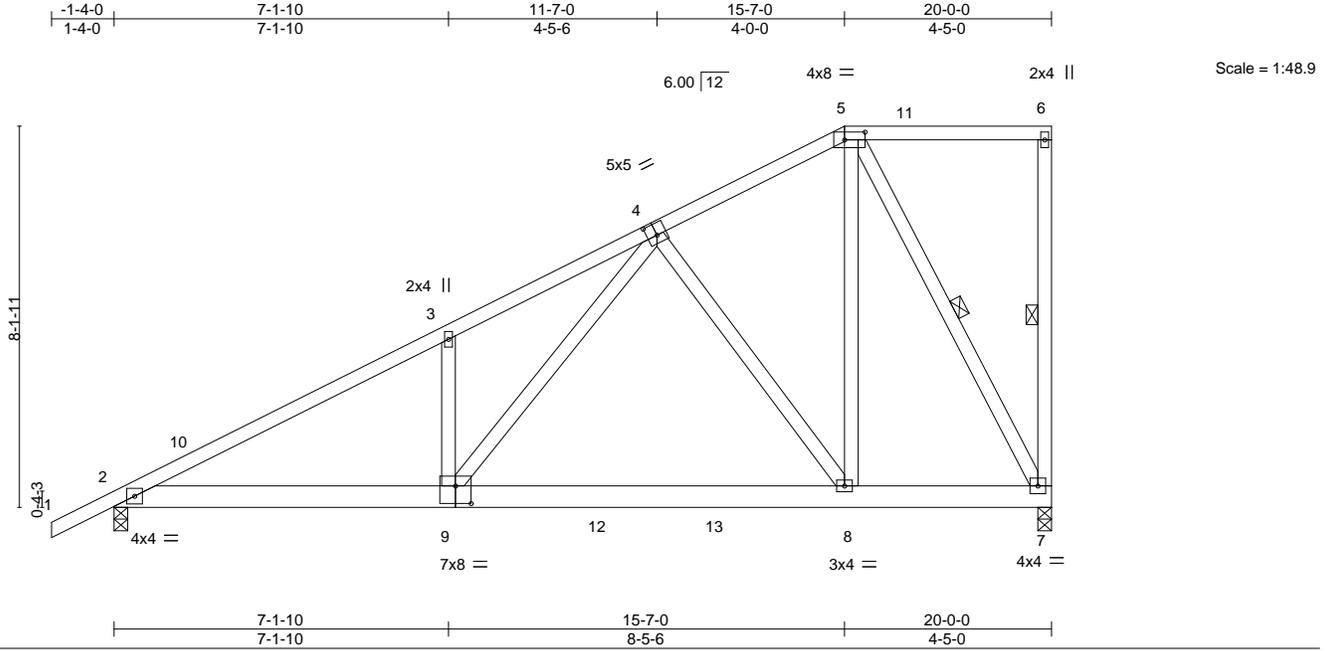


Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [5:0-5-4,0-2-0], [9:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(LL) -0.07 8-9 >999 360		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.59	Vert(CT) -0.22 8-9 >999 240		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Horz(CT) 0.02 7 n/a n/a		
			Wind(LL) 0.02 2-9 >999 240	Weight: 141 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 3-9-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 6-7, 5-7

REACTIONS.

(size) 7=0-3-8, 2=0-3-8
 Max Horz 2=243(LC 9)
 Max Grav 7=1108(LC 17), 2=1122(LC 17)

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

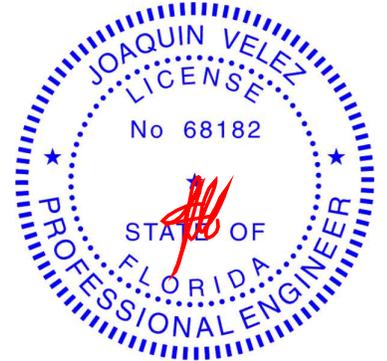
TOP CHORD 2-3=-1848/0, 3-4=-1843/0, 4-5=-663/0
 BOT CHORD 2-9=0/1651, 8-9=-14/978, 7-8=-1/586
 WEBS 3-9=-356/144, 4-9=0/1106, 4-8=-694/11, 5-8=0/1058, 5-7=-1169/0

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 15-7-0, Zone3 15-7-0 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-60, 5-6=-60, 2-9=-20, 8-9=-60, 7-8=-20
- Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-50, 5-6=-50, 2-9=-35, 9-12=-75, 12-13=-90, 8-13=-75, 7-8=-35
- Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-5=-20, 5-6=-20, 2-9=-40, 8-9=-80, 7-8=-40



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

October 7, 2025

Continued on page 2

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MiTek®

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

Job	Truss	Truss Type	Qty	Ply	2169-CR	T38758794
6252400	G02	HALF HIP	1	1		

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:25 2025 Page 2
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-wOCT9jF4RW1eaFxlTQcnkGmsS3hY0jPki6XsuyWAwa

LOAD CASE(S) Standard

- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=37, 2-10=21, 5-10=16, 5-6=21, 2-9=-12, 8-9=-52, 7-8=-12
Horz: 1-2=-46, 2-10=-30, 5-10=-25, 6-7=31
Drag: 5-6=0
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-4=16, 4-5=21, 5-11=16, 6-11=21, 2-9=-12, 8-9=-52, 7-8=-12
Horz: 1-2=-20, 2-4=-25, 4-5=-30, 6-7=-19
Drag: 5-6=0
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-5=-32, 5-6=-32, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=-13, 2-5=12, 6-7=22
Drag: 5-6=0
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-28, 2-5=-32, 5-6=-32, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=8, 2-5=12, 6-7=-28
Drag: 5-6=0
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-5=3, 5-6=8, 2-9=-12, 8-9=-52, 7-8=-12
Horz: 1-2=-24, 2-5=-11, 6-7=15
Drag: 5-6=0
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=9, 5-6=18, 2-9=-12, 8-9=-52, 7-8=-12
Horz: 1-2=-13, 2-5=-17, 6-7=-13
Drag: 5-6=0
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-5=-28, 5-6=-21, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=4, 2-5=8, 6-7=6
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-5=-12, 5-6=-21, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=-13, 2-5=-8, 6-7=22
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-5=15, 5-6=15, 2-9=-12, 8-9=-52, 7-8=-12
Horz: 1-2=-37, 2-5=-24, 6-7=20
Drag: 5-6=0
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-5=3, 5-6=3, 2-9=-12, 8-9=-52, 7-8=-12
Horz: 1-2=-24, 2-5=-11, 6-7=20
Drag: 5-6=0
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-5=-21, 5-6=-21, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=-4, 2-5=1, 6-7=10
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-5=-21, 5-6=-21, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=-4, 2-5=1, 6-7=10
- 16) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-6=-20, 2-9=-40, 9-12=-80, 12-13=-100, 8-13=-80, 7-8=-40
- 17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-53, 2-5=-56, 5-6=-51, 2-9=-35, 9-12=-75, 12-13=-90, 8-13=-75, 7-8=-35
Horz: 1-2=3, 2-5=6, 6-7=5
- 18) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-5=-44, 5-6=-51, 2-9=-35, 9-12=-75, 12-13=-90, 8-13=-75, 7-8=-35
Horz: 1-2=-10, 2-5=-6, 6-7=-16
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-5=-51, 5-6=-51, 2-9=-35, 9-12=-75, 12-13=-90, 8-13=-75, 7-8=-35
Horz: 1-2=-3, 2-5=1, 6-7=8

Continued on page 3

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR	T38758794
6252400	G02	HALF HIP	1	1		

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:25 2025 Page 3
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-wOCT9jF4RW1eaFxlTQcnkGmsS3hY0jPk6XsuyWAwa

LOAD CASE(S) Standard

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-47, 2-5=-51, 5-6=-51, 2-9=-35, 9-12=-75, 12-13=-90, 8-13=-75, 7-8=-35

Horz: 1-2=-3, 2-5=1, 6-7=8

21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=8, 2-5=-25, 5-6=-25, 2-9=-12, 8-9=-52, 7-8=-12

Horz: 1-2=-16, 2-5=16, 6-7=16

Drag: 5-6=0

22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=8, 5-6=8, 2-9=-12, 8-9=-52, 7-8=-12

Horz: 1-5=-16, 6-7=16

Drag: 5-6=0

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-60, 5-6=-60, 2-9=-20, 8-9=-60, 7-8=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-20, 5-6=-60, 2-9=-20, 8-9=-60, 7-8=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-50, 5-6=-50, 2-9=-35, 9-12=-75, 12-13=-90, 8-13=-75, 7-8=-35

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-20, 5-6=-50, 2-9=-35, 9-12=-75, 12-13=-90, 8-13=-75, 7-8=-35

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 6252400	Truss G03	Truss Type HALF HIP	Qty 1	Ply 1	2169-CR	T38758795
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:26 2025 Page 1

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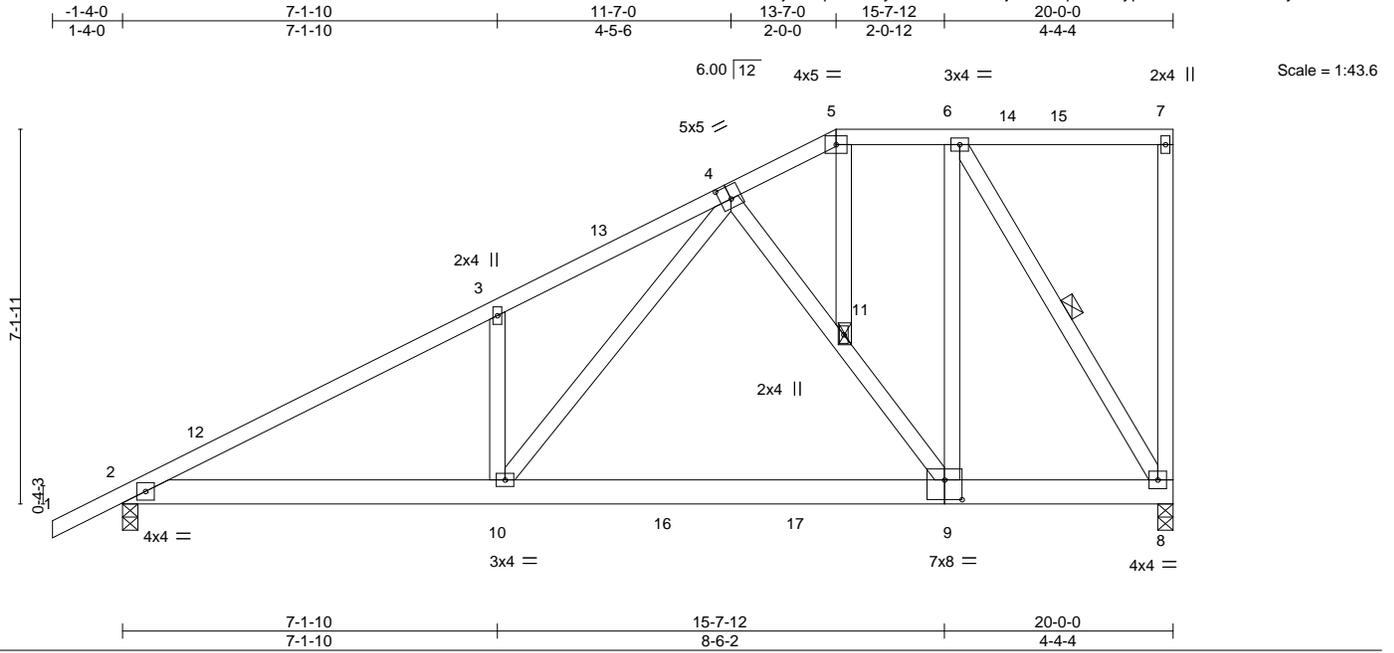


Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [9:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.59	Vert(LL) -0.07	9-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.69	Vert(CT) -0.23	9-10	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.33	Horz(CT) 0.02	8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.02	2-10	>999	240		
							Weight: 142 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 3-10-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 6-8
 JOINTS 1 Brace at Jt(s): 11

REACTIONS.

(size) 8=0-3-8, 2=0-3-8
 Max Horz 2=213(LC 9)
 Max Grav 8=1098(LC 17), 2=1124(LC 17)

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

TOP CHORD 2-3=-1857/0, 3-4=-1865/0, 4-5=-678/0, 5-6=-609/0
 BOT CHORD 2-10=0/1650, 9-10=-10/954, 8-9=0/627
 WEBS 3-10=-380/144, 4-10=0/1143, 4-11=-585/33, 9-11=-511/63, 6-9=0/896, 6-8=-1177/0

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 13-7-0, Zone2 13-7-0 to 17-9-15, Zone1 17-9-15 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-60, 5-7=-60, 2-10=-20, 9-10=-60, 8-9=-20
- Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-50, 5-7=-50, 2-10=-35, 10-16=-75, 16-17=-90, 9-17=-75, 8-9=-35
- Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-5=-20, 5-7=-20, 2-10=-40, 9-10=-80, 8-9=-40



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

October 7, 2025

Continued on page 2

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MiTek®

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

Job	Truss	Truss Type	Qty	Ply	2169-CR	T38758795
6252400	G03	HALF HIP	1	1		

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:26 2025 Page 2
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-QamrM3jtrleuFkq7JBxrkypxsrPnHX4YzMr4PKyWAwZ

LOAD CASE(S) Standard

- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=37, 2-12=21, 5-12=16, 5-15=21, 7-15=16, 2-10=-12, 9-10=-52, 8-9=-12
Horz: 1-2=-46, 2-12=-30, 5-12=-25, 7-8=31
Drag: 5-6=0
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-13=16, 5-13=21, 5-14=16, 7-14=21, 2-10=-12, 9-10=-52, 8-9=-12
Horz: 1-2=-20, 2-13=-25, 5-13=-30, 7-8=20
Drag: 5-6=0
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-5=-32, 5-7=-32, 2-10=-20, 9-10=-60, 8-9=-20
Horz: 1-2=-13, 2-5=12, 7-8=22
Drag: 5-6=0
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-28, 2-5=-32, 5-7=-32, 2-10=-20, 9-10=-60, 8-9=-20
Horz: 1-2=8, 2-5=12, 7-8=-29
Drag: 5-6=0
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-5=3, 5-7=8, 2-10=-12, 9-10=-52, 8-9=-12
Horz: 1-2=-24, 2-5=-11, 7-8=15
Drag: 5-6=0
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=9, 5-7=18, 2-10=-12, 9-10=-52, 8-9=-12
Horz: 1-2=-13, 2-5=-17, 7-8=-13
Drag: 5-6=0
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-5=-28, 5-7=-21, 2-10=-20, 9-10=-60, 8-9=-20
Horz: 1-2=4, 2-5=8, 7-8=6
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-5=-12, 5-7=-21, 2-10=-20, 9-10=-60, 8-9=-20
Horz: 1-2=-13, 2-5=-8, 7-8=-22
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-5=15, 5-7=15, 2-10=-12, 9-10=-52, 8-9=-12
Horz: 1-2=-37, 2-5=-24, 7-8=20
Drag: 5-6=0
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-5=3, 5-7=3, 2-10=-12, 9-10=-52, 8-9=-12
Horz: 1-2=-24, 2-5=-11, 7-8=20
Drag: 5-6=0
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-5=-21, 5-7=-21, 2-10=-20, 9-10=-60, 8-9=-20
Horz: 1-2=-4, 2-5=1, 7-8=10
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-5=-21, 5-7=-21, 2-10=-20, 9-10=-60, 8-9=-20
Horz: 1-2=-4, 2-5=1, 7-8=10
- 16) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-7=-20, 2-10=-40, 10-16=-80, 16-17=-100, 9-17=-80, 8-9=-40
- 17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-53, 2-5=-56, 5-7=-51, 2-10=-35, 10-16=-75, 16-17=-90, 9-17=-75, 8-9=-35
Horz: 1-2=3, 2-5=6, 7-8=5
- 18) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-5=-44, 5-7=-51, 2-10=-35, 10-16=-75, 16-17=-90, 9-17=-75, 8-9=-35
Horz: 1-2=-10, 2-5=-6, 7-8=-16
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-5=-51, 5-7=-51, 2-10=-35, 10-16=-75, 16-17=-90, 9-17=-75, 8-9=-35
Horz: 1-2=-3, 2-5=1, 7-8=8

Continued on page 3

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MiTek®

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR	T38758795
6252400	G03	HALF HIP	1	1		

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:26 2025 Page 3
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-QamrM3jtrleuFkq7JBxrkypxsrPnHX4YzMr4PKyWAwZ

LOAD CASE(S) Standard

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-47, 2-5=-51, 5-7=-51, 2-10=-35, 10-16=-75, 16-17=-90, 9-17=-75, 8-9=-35

Horz: 1-2=-3, 2-5=1, 7-8=8

21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=8, 2-5=-25, 5-7=-25, 2-10=-12, 9-10=-52, 8-9=-12

Horz: 1-2=-16, 2-5=16, 7-8=16

Drag: 5-6=0

22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=8, 5-7=8, 2-10=-12, 9-10=-52, 8-9=-12

Horz: 1-5=-16, 7-8=16

Drag: 5-6=0

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-60, 5-7=-60, 2-10=-20, 9-10=-60, 8-9=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-20, 5-7=-60, 2-10=-20, 9-10=-60, 8-9=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-50, 5-7=-50, 2-10=-35, 10-16=-75, 16-17=-90, 9-17=-75, 8-9=-35

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-20, 5-7=-50, 2-10=-35, 10-16=-75, 16-17=-90, 9-17=-75, 8-9=-35

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

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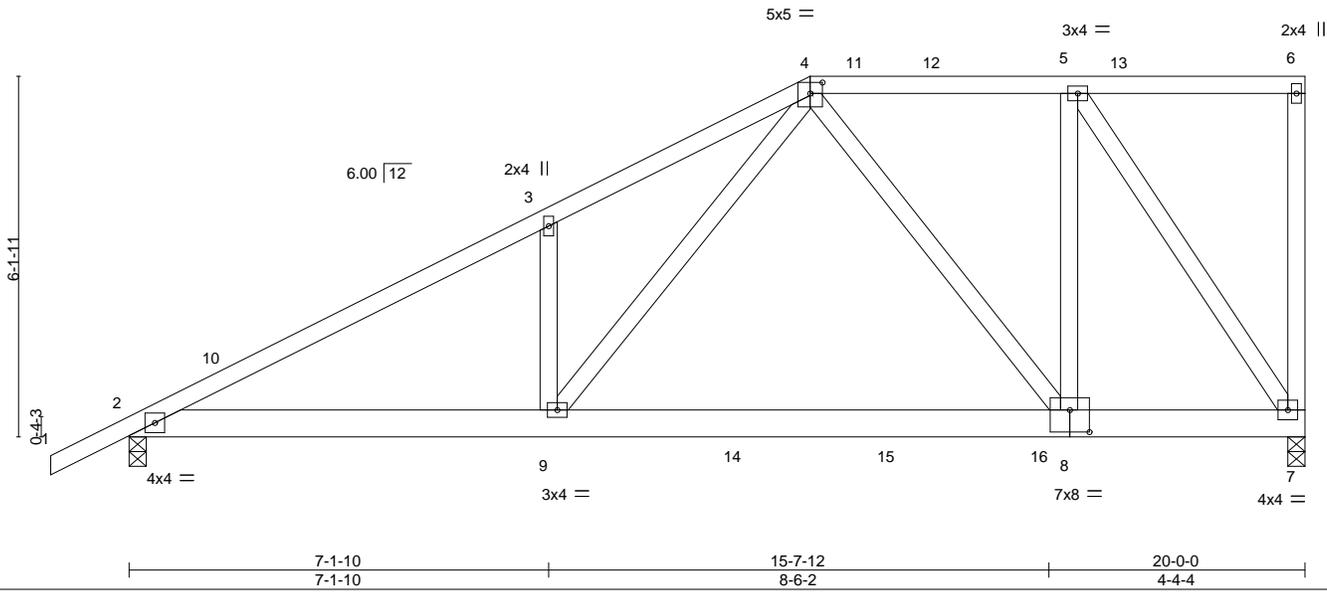
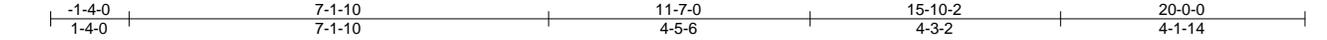
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Job 6252400	Truss G04	Truss Type HALF HIP	Qty 1	Ply 1	2169-CR	T38758796
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:26 2025 Page 1

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Scale = 1:39.0

Plate Offsets (X,Y)--	[4:0-2-8,0-2-4], [8:0-4-0,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.60	Vert(LL) -0.07	8-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT) -0.23	8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 1.00	Horz(CT) 0.02	7	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014	Matrix-S	Wind(LL) 0.02	2-9	>999	240	Weight: 132 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-9-15 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

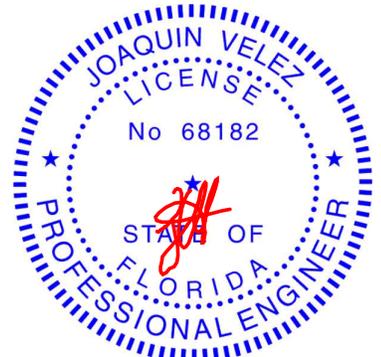
REACTIONS. (size) 7=0-3-8, 2=0-3-8
 Max Horz 2=183(LC 9)
 Max Grav 7=1080(LC 17), 2=1121(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1852/0, 3-4=-1855/0, 4-5=-702/0
 BOT CHORD 2-9=0/1634, 8-9=0/937, 7-8=0/715
 WEBS 3-9=-370/166, 4-9=0/1140, 4-8=-367/77, 5-8=0/800, 5-7=-1255/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-7-0, Zone2 11-7-0 to 15-11-14, Zone1 15-11-14 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-6=-60, 2-9=-20, 9-16=-60, 7-16=-20
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-50, 4-6=-50, 2-9=-35, 9-14=-75, 14-15=-90, 15-16=-75, 7-16=-35
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 4-6=-20, 2-9=-40, 9-16=-80, 7-16=-40



Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	2169-CR	T38758796
6252400	G04	HALF HIP	1	1		

Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:26 2025 Page 2

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-OamrM3JtrleuFq7JBxrkYypjrPeHNaYzMr4PKyWAwZ

LOAD CASE(S) Standard

- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=37, 2-10=21, 4-10=16, 4-5=21, 5-6=16, 2-9=-12, 9-16=-52, 7-16=-12
Horz: 1-2=-46, 2-10=-30, 4-10=-25, 6-7=32
Drag: 4-5=0
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-3=16, 3-4=21, 4-13=16, 6-13=21, 2-9=-12, 9-16=-52, 7-16=-12
Horz: 1-2=-20, 2-3=-25, 3-4=-30, 6-7=-20
Drag: 4-5=0
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-4=-32, 4-6=-32, 2-9=-20, 9-16=-60, 7-16=-20
Horz: 1-2=-13, 2-4=12, 6-7=23
Drag: 4-5=0
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-28, 2-4=-32, 4-6=-32, 2-9=-20, 9-16=-60, 7-16=-20
Horz: 1-2=8, 2-4=12, 6-7=-30
Drag: 4-5=0
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-4=3, 4-12=14, 6-12=8, 2-9=-12, 9-16=-52, 7-16=-12
Horz: 1-2=-24, 2-4=-11, 6-7=15
Drag: 4-12=0, 5-12=0
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=9, 4-11=14, 6-11=18, 2-9=-12, 9-16=-52, 7-16=-12
Horz: 1-2=-13, 2-4=-17, 6-7=-13
Drag: 4-5=0
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-4=-28, 4-6=-21, 2-9=-20, 9-16=-60, 7-16=-20
Horz: 1-2=4, 2-4=8, 6-7=6
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-4=-12, 4-6=-21, 2-9=-20, 9-16=-60, 7-16=-20
Horz: 1-2=-13, 2-4=-8, 6-7=-22
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-4=15, 4-6=15, 2-9=-12, 9-16=-52, 7-16=-12
Horz: 1-2=-37, 2-4=-24, 6-7=20
Drag: 4-5=0
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-4=3, 4-6=3, 2-9=-12, 9-16=-52, 7-16=-12
Horz: 1-2=-24, 2-4=-11, 6-7=20
Drag: 4-5=0
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-4=-21, 4-6=-21, 2-9=-20, 9-16=-60, 7-16=-20
Horz: 1-2=4, 2-4=1, 6-7=10
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-4=-21, 4-6=-21, 2-9=-20, 9-16=-60, 7-16=-20
Horz: 1-2=-4, 2-4=1, 6-7=10
- 16) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 4-6=-20, 2-9=-40, 9-14=-80, 14-15=-100, 15-16=-80, 7-16=-40
- 17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-53, 2-4=-56, 4-6=-51, 2-9=-35, 9-14=-75, 14-15=-90, 15-16=-75, 7-16=-35
Horz: 1-2=3, 2-4=6, 6-7=5
- 18) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-4=-44, 4-6=-51, 2-9=-35, 9-14=-75, 14-15=-90, 15-16=-75, 7-16=-35
Horz: 1-2=-10, 2-4=-6, 6-7=-16
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-4=-51, 4-6=-51, 2-9=-35, 9-14=-75, 14-15=-90, 15-16=-75, 7-16=-35
Horz: 1-2=-3, 2-4=1, 6-7=8

Continued on page 3

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	2169-CR	T38758796
6252400	G04	HALF HIP	1	1		

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:26 2025 Page 3
ID:SuQVa2bJoYHjVzRq1hrHKbylAWH-OamrM3jtrleuFkq7JBxrKypxjrPeHNaYzMr4PKyWAwZ

LOAD CASE(S) Standard

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-47, 2-4=-51, 4-6=-51, 2-9=-35, 9-14=-75, 14-15=-90, 15-16=-75, 7-16=-35

Horz: 1-2=-3, 2-4=1, 6-7=8

21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=8, 2-4=-25, 4-6=-25, 2-9=-12, 9-16=-52, 7-16=-12

Horz: 1-2=-16, 2-4=16, 6-7=16

Drag: 4-5=0

22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-4=8, 4-6=8, 2-9=-12, 9-16=-52, 7-16=-12

Horz: 1-4=-16, 6-7=16

Drag: 4-5=0

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-60, 4-6=-60, 2-9=-20, 9-16=-60, 7-16=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-20, 4-6=-60, 2-9=-20, 9-16=-60, 7-16=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-50, 4-6=-50, 2-9=-35, 9-14=-75, 14-15=-90, 15-16=-75, 7-16=-35

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-20, 4-6=-50, 2-9=-35, 9-14=-75, 14-15=-90, 15-16=-75, 7-16=-35

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

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	2169-CR	T38758797
6252400	G05	HALF HIP	1	1		

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:27 2025 Page 1
 ID:SuQVa2bJoYHjVzRq1hrHKbylAWH-tnKDaPJWc2mtuOJtuT4s9MAGFqw00WiC0bexmyWAwY



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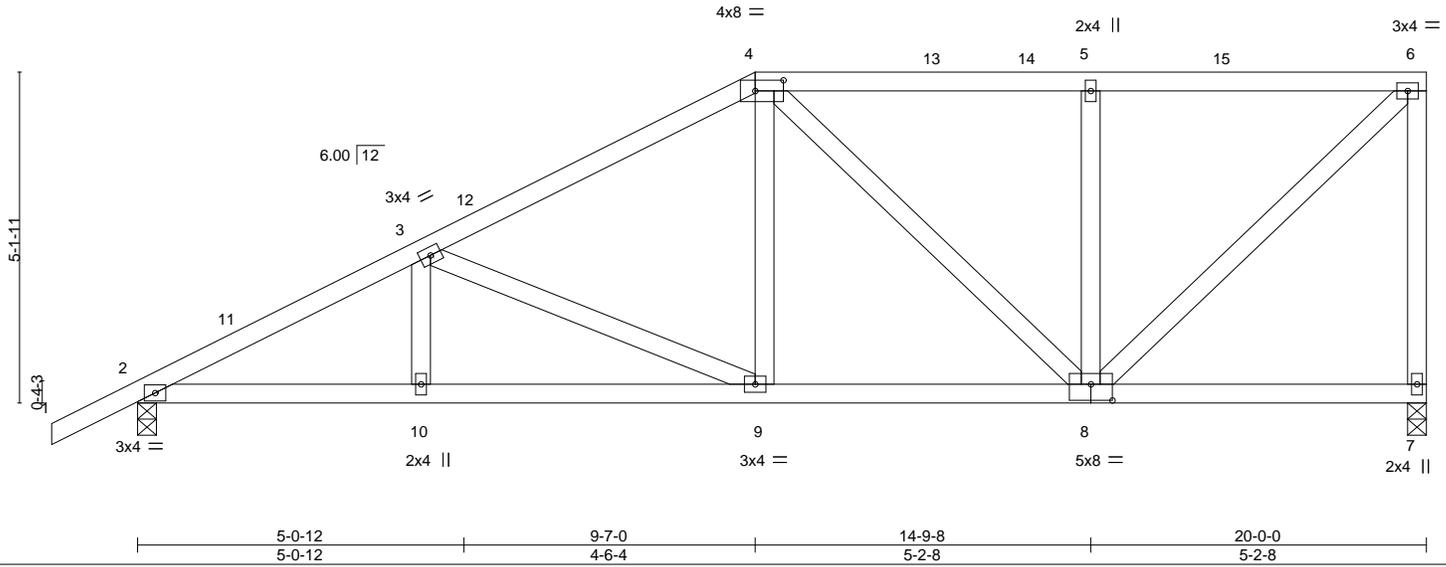


Plate Offsets (X,Y)-- [4:0-5-4,0-2-0], [8:0-4-0,0-3-0]

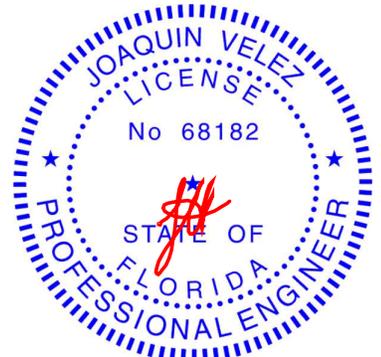
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL) -0.04 9-10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.09 9-10 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.25	Horz(CT) 0.03 7 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.02 9-10 >999 240	Weight: 115 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-9-15 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 7=0-3-8, 2=0-3-8
 Max Horz 2=154(LC 9)
 Max Uplift 7=-49(LC 9), 2=-75(LC 12)
 Max Grav 7=785(LC 1), 2=880(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1426/101, 3-4=-983/116, 4-5=-651/122, 5-6=-650/122, 6-7=-738/115
 BOT CHORD 2-10=-248/1215, 9-10=-248/1215, 8-9=-173/821
 WEBS 3-9=-437/80, 4-9=0/339, 5-8=-357/105, 6-8=-106/883

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 9-7-0, Zone2 9-7-0 to 13-9-15, Zone1 13-9-15 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 7 and 75 lb uplift at joint 2.



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

October 7, 2025

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 6252400	Truss G06	Truss Type ROOF SPECIAL	Qty 1	Ply 1	2169-CR	T38758798
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:27 2025 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-tnKDaPjWc2mtuOJtuT4s9M87FjD0yKiC0bexmyWAwY



Scale = 1:36.4

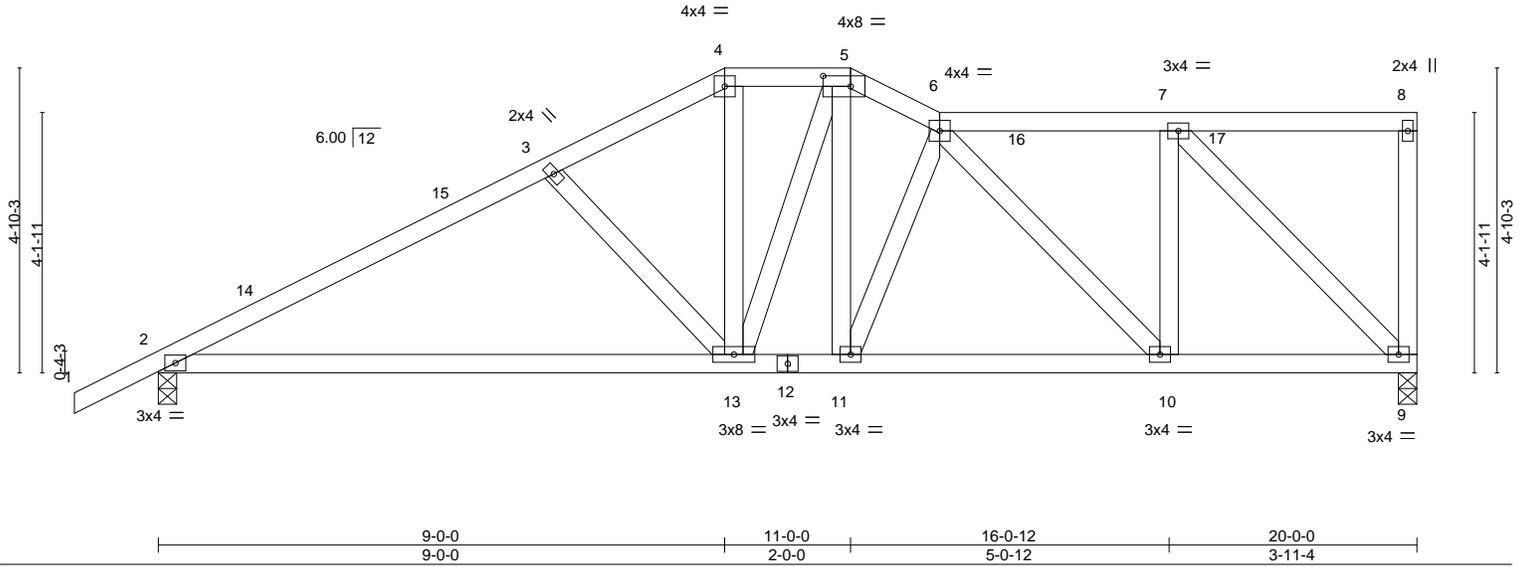


Plate Offsets (X,Y)-- [5:0-5-4,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) -0.17	2-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(CT) -0.36	2-13	>652	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.45	Horz(CT) 0.03	9	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.03	2-13	>999	240	Weight: 120 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 4-4-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

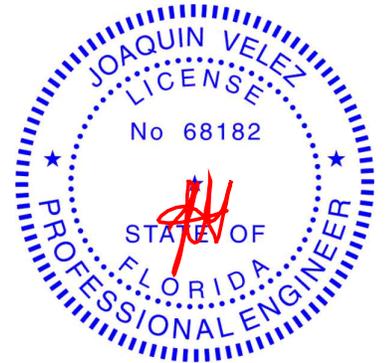
(size) 9=0-3-8, 2=0-3-8
 Max Horz 2=135(LC 11)
 Max Uplift 9=-35(LC 9), 2=-76(LC 12)
 Max Grav 9=785(LC 1), 2=880(LC 1)

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

TOP CHORD 2-3=-1283/190, 3-4=-1029/167, 4-5=-872/157, 5-6=-952/186, 6-7=-658/132
 BOT CHORD 2-13=-295/1073, 11-13=-198/842, 10-11=-210/938, 9-10=-145/658
 WEBS 3-13=-312/149, 4-13=-32/358, 6-11=-278/87, 6-10=-407/94, 7-10=0/416, 7-9=-925/146

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 9-0-0, Zone3 9-0-0 to 12-5-0, Zone1 12-5-0 to 19-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 9 and 76 lb uplift at joint 2.



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

October 7, 2025

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

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

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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 6252400	Truss G07	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 1	2169-CR	T38758799
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:28 2025 Page 1

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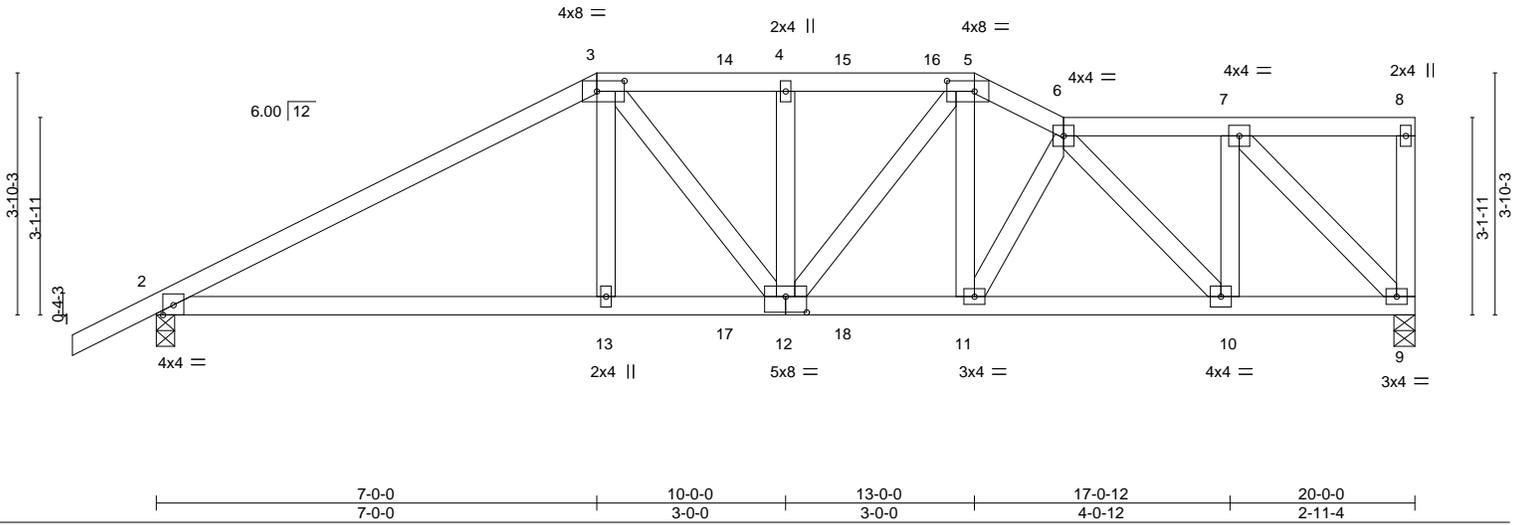


Plate Offsets (X,Y)-- [3:0-5-4,0-2-0], [5:0-5-4,0-2-0], [12:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) -0.09 2-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.92	Vert(CT) -0.21 2-13 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.55	Horz(CT) 0.07 9 n/a n/a		
BCDL 10.0	Code FBC2023/TP12014	Matrix-S	Wind(LL) 0.05 12 >999 240	Weight: 113 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
1-3: 2x4 SP M 31 or 2x4 SP SS
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-

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

REACTIONS.

(size) 9=0-4-0, 2=0-3-8
Max Horz 2=105(LC 7)
Max Uplift 9=-92(LC 5), 2=-95(LC 8)
Max Grav 9=1555(LC 1), 2=1564(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2748/96, 3-4=-2624/164, 4-5=-2624/164, 5-6=-2776/187, 6-7=-1433/105
BOT CHORD 2-13=-96/2357, 12-13=-88/2375, 11-12=-158/2503, 10-11=-168/2543, 9-10=-100/1432
WEBS 3-13=0/608, 3-12=-159/486, 4-12=-389/138, 5-11=0/558, 6-10=-1629/104, 7-10=-31/1252, 7-9=-2025/116

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 9 and 95 lb uplift at joint 2.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 153 lb down and 93 lb up at 7-0-0, 134 lb down and 89 lb up at 9-0-12, and 134 lb down and 89 lb up at 10-11-4, and 464 lb down and 259 lb up at 13-0-0 on top chord, and 317 lb down at 7-0-0, 96 lb down at 9-0-12, and 96 lb down at 10-11-4, and 317 lb down at 12-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 5-6=-60, 6-8=-60, 2-9=-20



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

October 7, 2025

Continued on page 2

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

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

MiTek®

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR	T38758799
6252400	G07	ROOF SPECIAL GIRDER	1	1		

Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:28 2025 Page 2
 ID:SuQVa2bJoYHjVzRq1hrHKbylAWH-Lztcnk8NMucV2zVQc_JPNuEMf1fIO3rQgKBTdyWAwX

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=-134(B) 5=-417(B) 13=-269(B) 11=-269(B) 14=-134(B) 15=-134(B) 17=-48(B) 18=-48(B)

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

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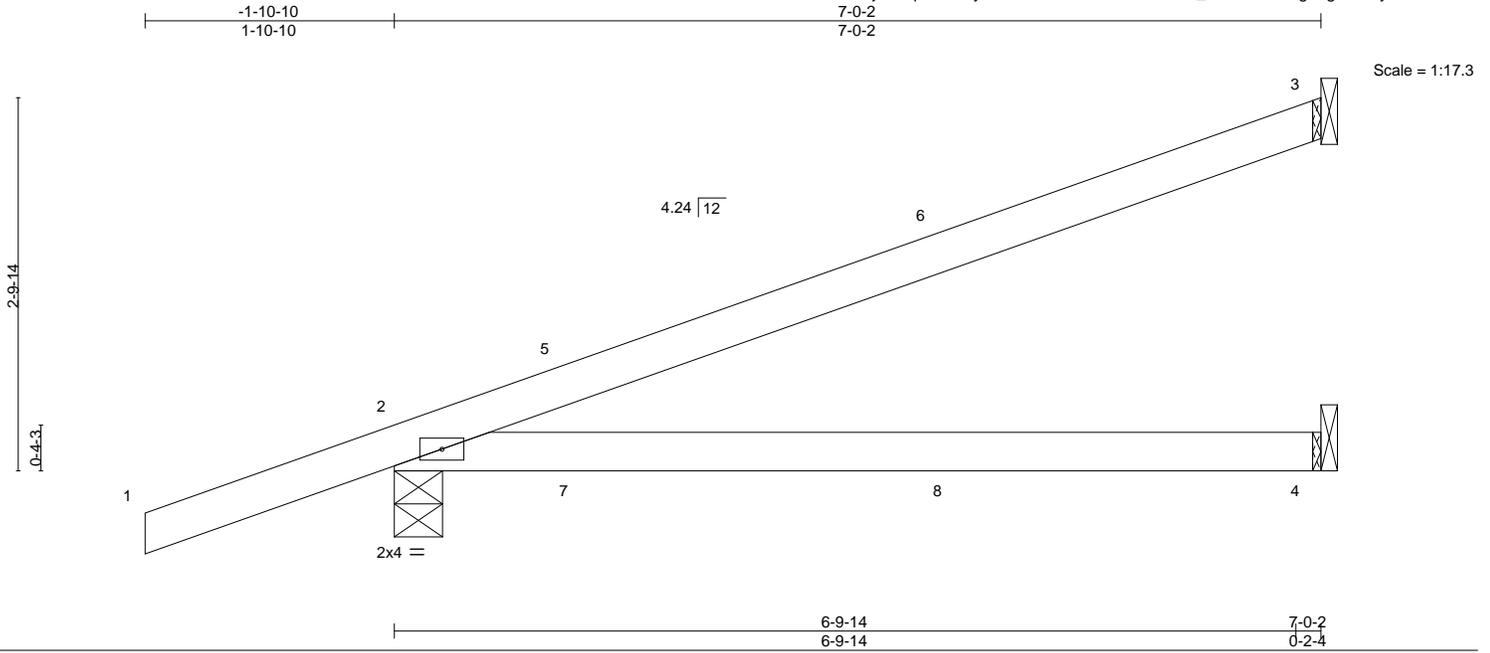
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 Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	2169-CR	T38758800
6252400	H5	DIAGONAL HIP GIRDER	2	1		

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:28 2025 Page 1
 ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-Lztcnk8NMucV2zvQc_JPNuFf5lIWgrQgKBDyWAwX



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.76	Vert(LL) -0.13	2-4	>646	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.66	Vert(CT) -0.25	2-4	>323	240			
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00	3	n/a	n/a			
BCDL 10.0	Code FBC2023/TPI2014	Matrix-P	Wind(LL) 0.00	2	****	240		Weight: 25 lb	FT = 20%

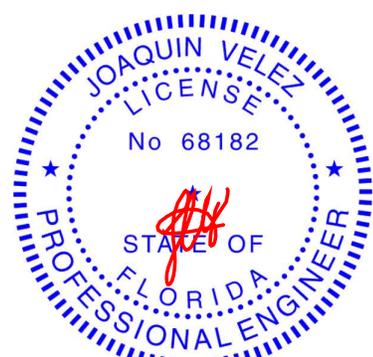
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-6, 4=Mechanical
 Max Horz 2=82(LC 8)
 Max Uplift 3=100(LC 8), 2=96(LC 8)
 Max Grav 3=260(LC 1), 2=354(LC 31), 4=135(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 3 and 96 lb uplift at joint 2.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 115 lb up at 1-4-15, 53 lb down and 115 lb up at 1-4-15, 64 lb down and 48 lb up at 4-2-15, and 55 lb down and 31 lb up at 4-2-15, and 89 lb down and 61 lb up at 6-11-6 on top chord, and at 1-4-15, at 1-4-15, and 11 lb down at 4-2-15, and 11 lb down at 4-2-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) 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=1.15, Plate Increase=1.15
Uniform Loads (plf)	Vert: 1-3=-60, 2-4=-20
Concentrated Loads (lb)	Vert: 3=-89(B) 5=77(F=38, B=38)



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

October 7, 2025

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

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

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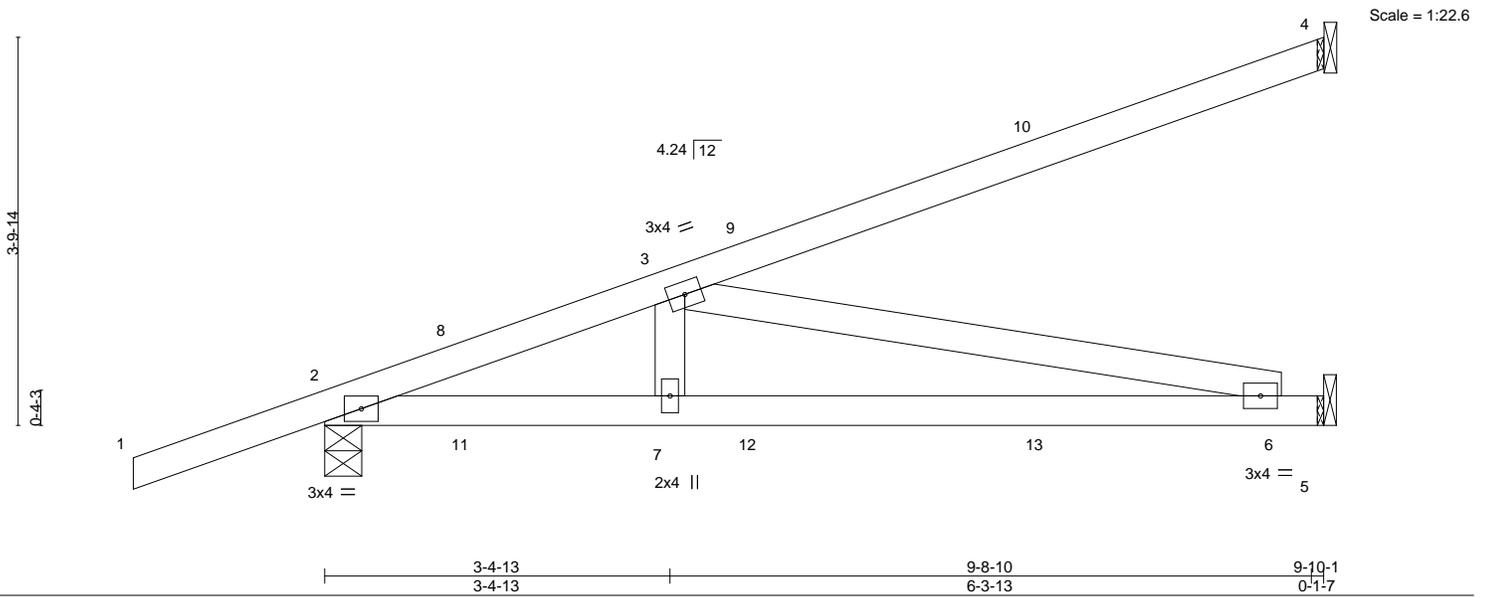
Job 6252400	Truss H7	Truss Type DIAGONAL HIP GIRDER	Qty 4	Ply 1	2169-CR	T38758801
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Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:29 2025 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-p9R_5Im8g0T6CYi_JVYxaRT_3M_Uqj_fK4k?fyWawW



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.53	Vert(LL) -0.11	6-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.92	Vert(CT) -0.24	6-7	>486	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.59	Horz(CT) 0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.03	6-7	>999	240		
							Weight: 44 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP M 31 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 2=0-4-6, 5=Mechanical
 Max Horz 2=106(LC 27)
 Max Uplift 4=-132(LC 8), 2=-106(LC 8)
 Max Grav 4=368(LC 1), 2=495(LC 1), 5=278(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-972/53
 BOT CHORD 2-7=-115/897, 6-7=-115/897
 WEBS 3-7=0/319, 3-6=-916/117

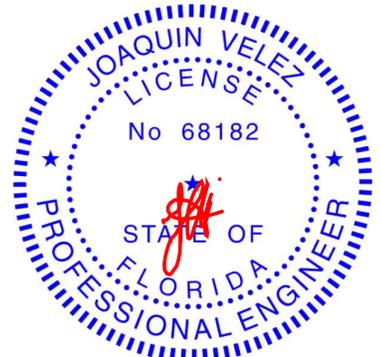
- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 4 and 106 lb uplift at joint 2.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 115 lb up at 1-4-15, 53 lb down and 115 lb up at 1-4-15, 64 lb down and 48 lb up at 4-2-15, 55 lb down and 31 lb up at 4-2-15, 95 lb down and 78 lb up at 7-0-14, and 89 lb down and 68 lb up at 7-0-14, and 153 lb down and 84 lb up at 9-9-5 on top chord, and at 1-4-15, at 1-4-15, 11 lb down at 4-2-15, 11 lb down at 4-2-15, and 39 lb down at 7-0-14, and 39 lb down at 7-0-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) 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=1.15, Plate Increase=1.15

Uniform Loads (plf)
 Vert: 1-4=-60, 2-5=-20

Concentrated Loads (lb)
 Vert: 4=-153(F) 8=77(F=38, B=38) 10=-104(F=-45, B=-59) 13=-39(F=-20, B=-20)



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

October 7, 2025

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

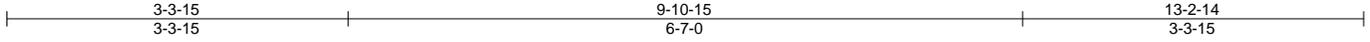
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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Job 6252400	Truss PB1	Truss Type Piggyback	Qty 2	Ply 1	2169-CR	T38758802
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:30 2025 Page 1

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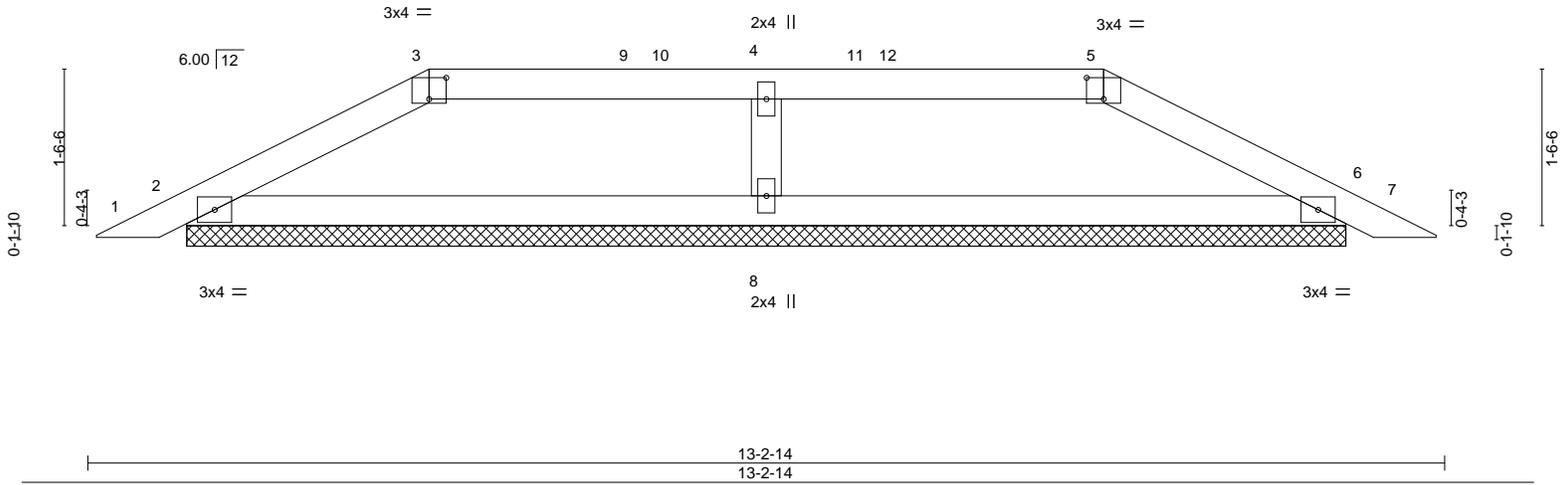


Plate Offsets (X,Y)-- [3:0-2-0,0-2-8], [5:0-2-0,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL)	0.01	7	n/r	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.31	Vert(CT)	0.01	7	n/r		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S					Weight: 39 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 10-0-0 oc bracing.

REACTIONS.

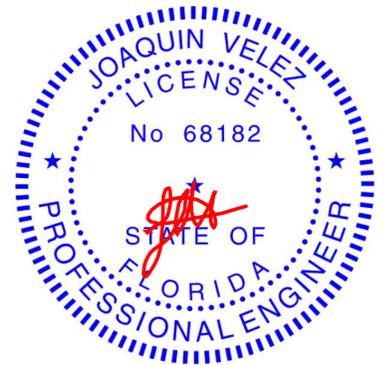
(size) 2=11-3-12, 6=11-3-12, 8=11-3-12
 Max Horz 2=-24(LC 10)
 Max Uplift 2=-43(LC 12), 6=-43(LC 12)
 Max Grav 2=297(LC 1), 6=297(LC 1), 8=380(LC 1)

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

TOP CHORD 2-3=-352/143, 3-4=-290/143, 4-5=-290/143, 5-6=-352/143
 BOT CHORD 2-8=-85/290, 6-8=-85/290

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-4-11 to 3-3-15, Zone2 3-3-15 to 7-6-14, Zone1 7-6-14 to 9-10-15, Zone3 9-10-15 to 12-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 2 and 43 lb uplift at joint 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

October 7, 2025

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

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

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Job 6252400	Truss PB2	Truss Type Piggyback	Qty 1	Ply 1	2169-CR	T38758803
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:30 2025 Page 1

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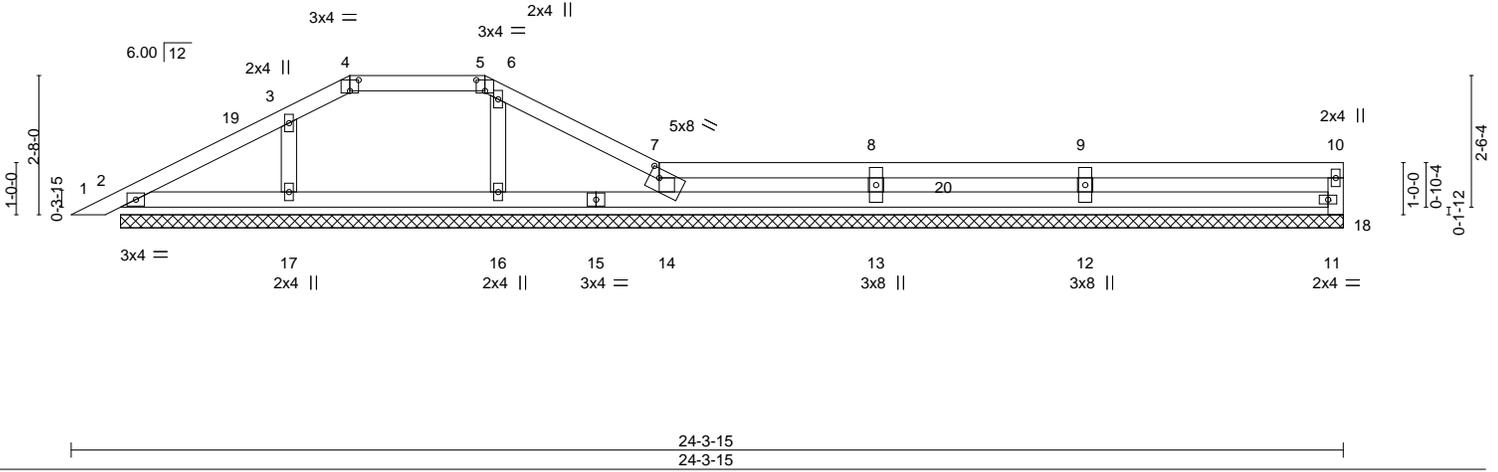


Plate Offsets (X,Y)-- [4:0-2-0,0-2-8], [5:0-2-0,0-2-8], [7:0-2-4,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.26	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(LL) -0.00 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Vert(CT) 0.00 1 n/r 120		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Horz(CT) 0.01 18 n/a n/a		
				Weight: 79 lb	FT = 20%

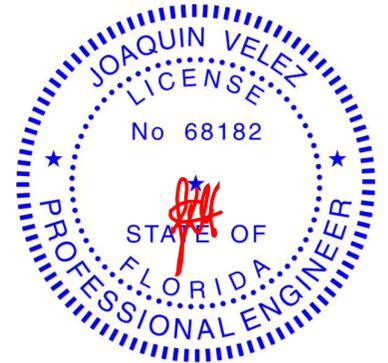
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 23-4-10.
(lb) - Max Horz 2=36(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 18, 2, 17, 14, 12, 13
Max Grav All reactions 250 lb or less at joint(s) 18, 2, 16 except 17=293(LC 23), 14=347(LC 24), 12=392(LC 1), 13=322(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 7-14=-283/104, 9-12=-289/84

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-3-15 to 3-3-15, Zone1 3-3-15 to 5-3-15, Zone3 5-3-15 to 11-2-15, Zone1 11-2-15 to 24-2-3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Gable requires continuous bottom chord bearing.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 2, 17, 14, 12, 13.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

October 7, 2025

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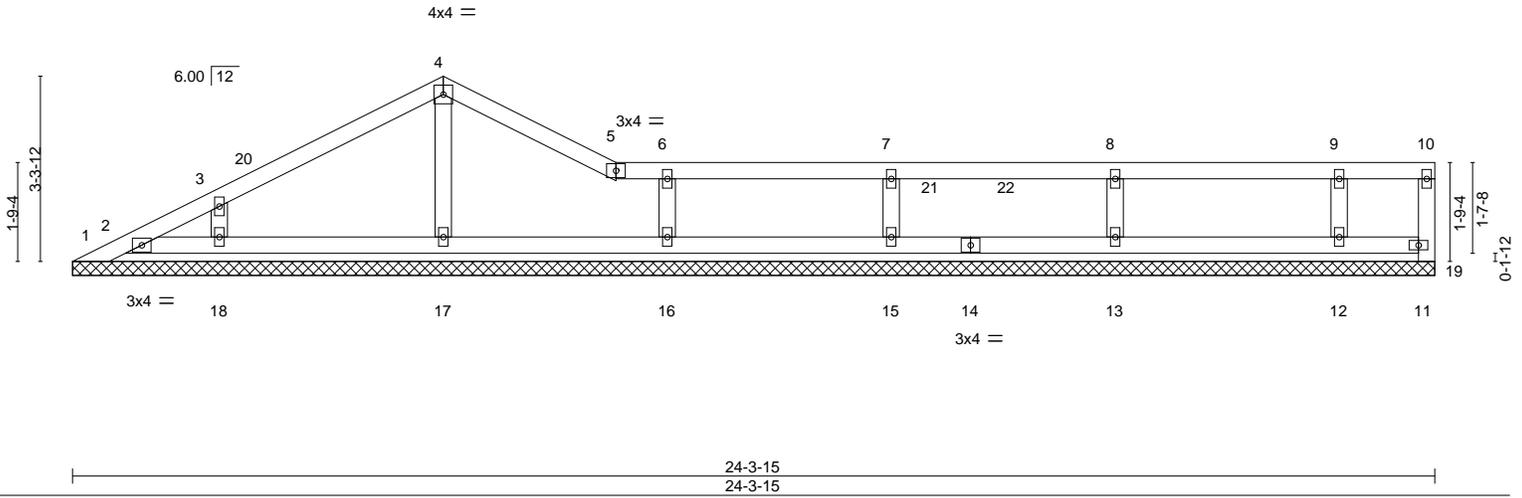
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 6252400	Truss PB3	Truss Type GABLE	Qty 1	Ply 1	2169-CR	T38758804
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:31 2025 Page 1
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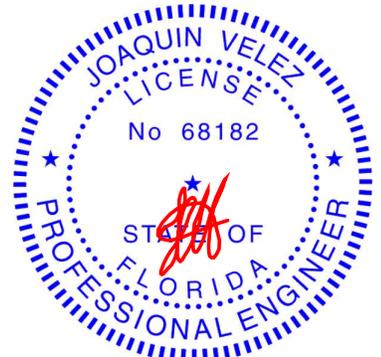
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.20	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 11 n/a n/a		
	Code FBC2023/TPI2014			Weight: 86 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 24-3-15.
 (lb) - Max Horz 1=39(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 18, 16, 15, 13, 12, 11
 Max Grav All reactions 250 lb or less at joint(s) 1, 2, 11 except 17=314(LC 1), 18=304(LC 23), 16=335(LC 24), 15=314(LC 1), 13=331(LC 24), 12=280(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 6-16=255/104

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-3-15 to 3-3-15, Zone1 3-3-15 to 6-7-7, Zone3 6-7-7 to 9-8-7, Zone1 9-8-7 to 24-2-3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 19, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 16, 15, 13, 12, 11.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



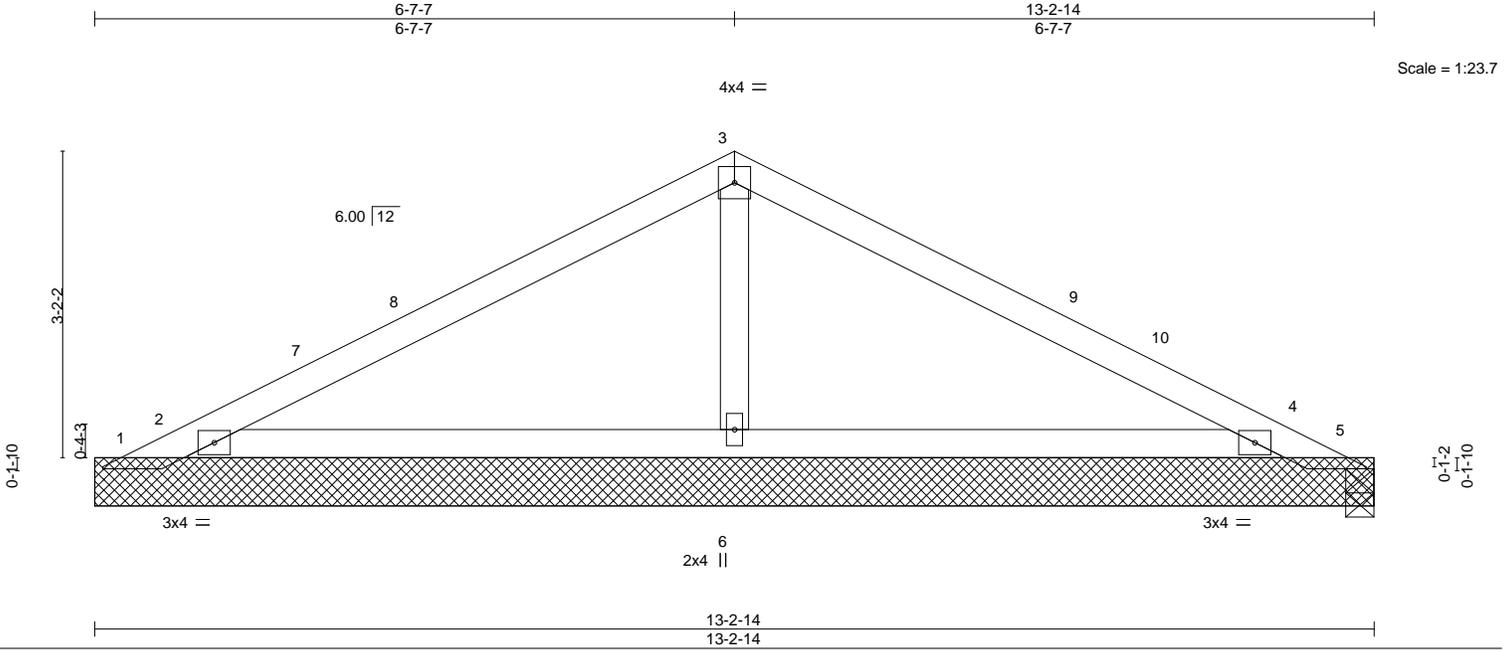
Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

October 7, 2025

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 6252400	Truss PB5	Truss Type Piggyback	Qty 4	Ply 1	2169-CR	T38758805
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:31 2025 Page 1
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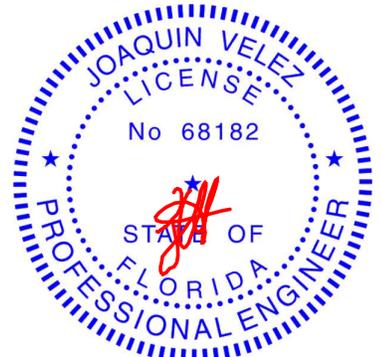
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.02	4-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.28	Vert(CT) -0.04	4-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.00	4-6	>999	240	Weight: 42 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 13-2-14.
 (lb) - Max Horz 1=52(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 4 except 1=330(LC 23), 5=237(LC 24), 5=220(LC 1), 2=111(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=625(LC 23), 4=544(LC 24), 6=417(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-6=281/120

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-4-11 to 3-4-11, Zone1 3-4-11 to 6-7-7, Zone2 6-7-7 to 10-10-6, Zone1 10-10-6 to 13-0-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 1=330, 5=237, 2=111.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

October 7, 2025

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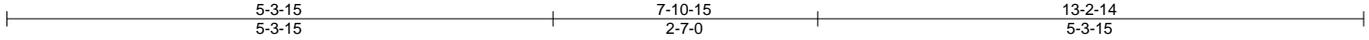
Job 6252400	Truss PB6	Truss Type Piggyback	Qty 1	Ply 1	2169-CR	T38758806
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8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Oct 6 09:08:32 2025 Page 1

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Job Reference (optional)



Scale = 1:22.4

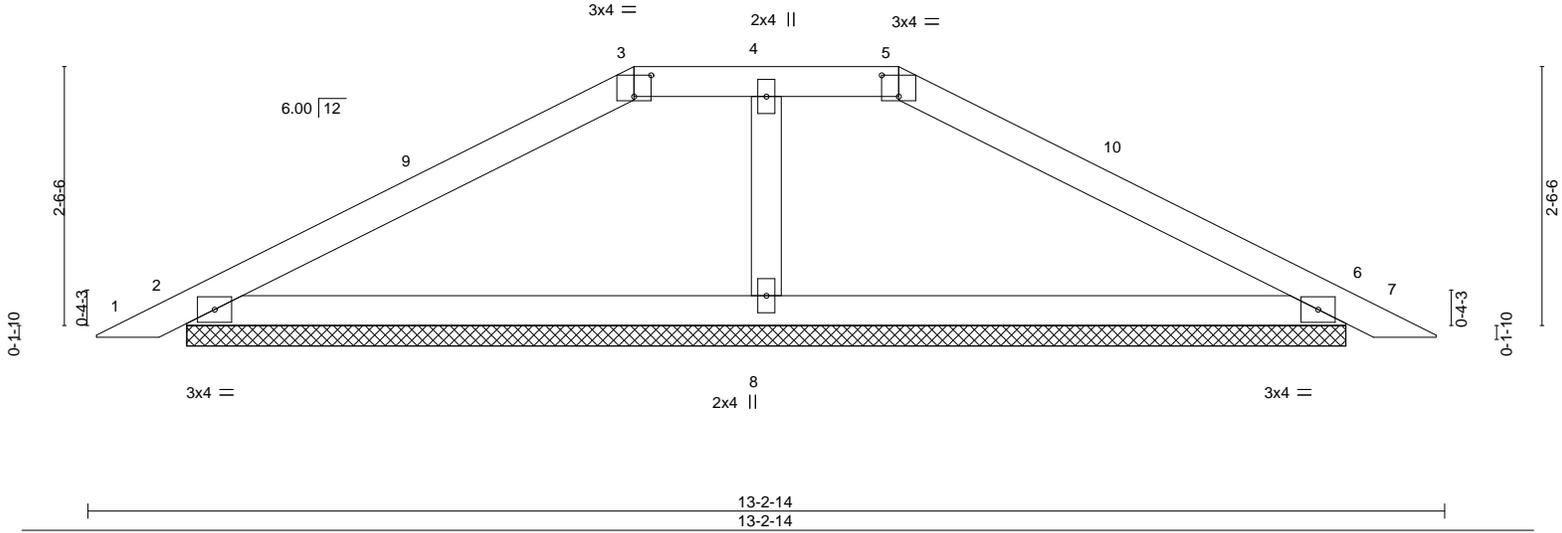


Plate Offsets (X,Y)-- [3:0-2-0,0-2-8], [5:0-2-0,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) 0.01	7	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) 0.02	7	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.01	6	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S					Weight: 41 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 10-0-0 oc bracing.

REACTIONS.

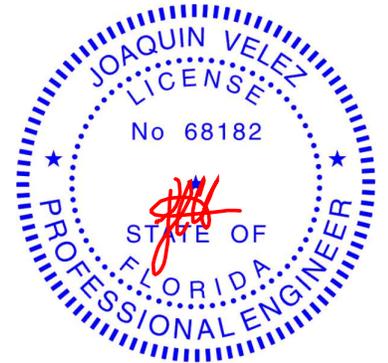
(size) 2=11-3-12, 6=11-3-12, 8=11-3-12
 Max Horz 2=41(LC 11)
 Max Uplift 2=-59(LC 12), 6=-59(LC 12)
 Max Grav 2=341(LC 1), 6=341(LC 1), 8=314(LC 3)

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

TOP CHORD 2-3=-368/167, 3-4=-275/177, 4-5=-275/177, 5-6=-368/167
 BOT CHORD 2-8=-84/275, 6-8=-84/275

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.; GCpi=0.18; MWFRS (directional) and C-C Zone3 0-4-11 to 3-4-11, Zone1 3-4-11 to 5-3-15, Zone3 5-3-15 to 7-10-15, Zone2 7-10-15 to 12-3-5, Zone1 12-3-5 to 12-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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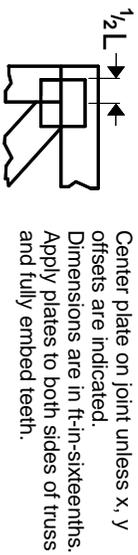
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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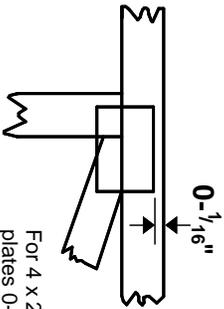
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Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

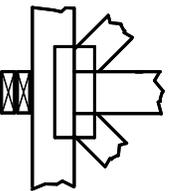
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

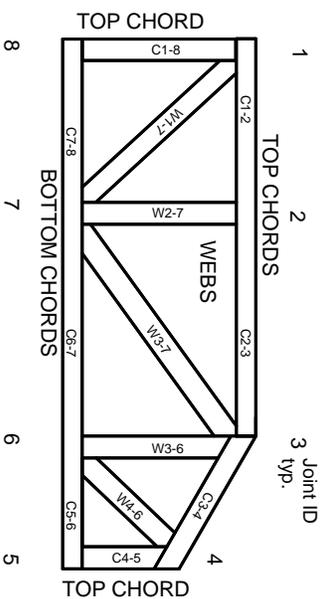


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/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



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability/bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/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.

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