



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

RE: 3235278 - IC CONST. - KNOLL RES.

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Knoll Res. Model: Custom
Lot/Block: N/A Subdivision: THE OAKS
Address: TBD SW Upstage Glen, TBD
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 78 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	T28641018	CJ01	8/29/22	15	T28641032	EJ01	8/29/22
2	T28641019	CJ01B	8/29/22	16	T28641033	EJ02	8/29/22
3	T28641020	CJ02	8/29/22	17	T28641034	EJ03	8/29/22
4	T28641021	CJ03	8/29/22	18	T28641035	HJ02	8/29/22
5	T28641022	CJ03A	8/29/22	19	T28641036	HJ03	8/29/22
6	T28641023	CJ03B	8/29/22	20	T28641037	HJ10	8/29/22
7	T28641024	CJ03C	8/29/22	21	T28641038	HJ10B	8/29/22
8	T28641025	CJ04	8/29/22	22	T28641039	HJ10C	8/29/22
9	T28641026	CJ05	8/29/22	23	T28641040	PB01	8/29/22
10	T28641027	CJ05A	8/29/22	24	T28641041	PB02	8/29/22
11	T28641028	CJ05B	8/29/22	25	T28641042	PB03	8/29/22
12	T28641029	CJ05C	8/29/22	26	T28641043	T01	8/29/22
13	T28641030	CJ06	8/29/22	27	T28641044	T01G	8/29/22
14	T28641031	CJ08	8/29/22	28	T28641045	T02	8/29/22



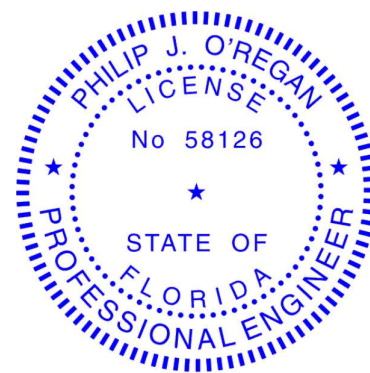
This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature.

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The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: O'Regan, Philip

My license renewal date for the state of Florida is February 28, 2023.



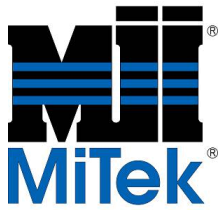
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

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

August 29,2022

O'Regan, Philip

1 of 2



RE: 3235278 - IC CONST. - KNOLL RES.

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Knoll Res. Model: Custom
Lot/Block: N/A Subdivision: THE OAKS
Address: TBD SW Upstage Glen, TBD
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
29	T28641046	T02G	8/29/22
30	T28641047	T03	8/29/22
31	T28641048	T04	8/29/22
32	T28641049	T04G	8/29/22
33	T28641050	T05	8/29/22
34	T28641051	T06	8/29/22
35	T28641052	T07	8/29/22
36	T28641053	T08	8/29/22
37	T28641054	T09	8/29/22
38	T28641055	T10	8/29/22
39	T28641056	T11	8/29/22
40	T28641057	T12	8/29/22
41	T28641058	T13	8/29/22
42	T28641059	T14	8/29/22
43	T28641060	T15	8/29/22
44	T28641061	T16	8/29/22
45	T28641062	T17	8/29/22
46	T28641063	T18	8/29/22
47	T28641064	T19	8/29/22
48	T28641065	T20	8/29/22
49	T28641066	T21	8/29/22
50	T28641067	T22	8/29/22
51	T28641068	T23	8/29/22
52	T28641069	T24	8/29/22
53	T28641070	T25	8/29/22
54	T28641071	T26	8/29/22
55	T28641072	T27	8/29/22
56	T28641073	T28	8/29/22
57	T28641074	T28G	8/29/22
58	T28641075	T29	8/29/22
59	T28641076	T30	8/29/22
60	T28641077	T31	8/29/22
61	T28641078	T32	8/29/22
62	T28641079	T33	8/29/22
63	T28641080	T34	8/29/22
64	T28641081	T35	8/29/22
65	T28641082	T36	8/29/22
66	T28641083	T37	8/29/22
67	T28641084	T38	8/29/22
68	T28641085	T39	8/29/22
69	T28641086	T40	8/29/22
70	T28641087	T41	8/29/22
71	T28641088	T42	8/29/22
72	T28641089	T42G	8/29/22
73	T28641090	T43	8/29/22
74	T28641091	T44	8/29/22
75	T28641092	T45	8/29/22
76	T28641093	TG01	8/29/22
77	T28641094	TG02	8/29/22
78	T28641095	V01	8/29/22

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641018
3235278	CJ01	Jack-Open	4	1	Job Reference (optional)	

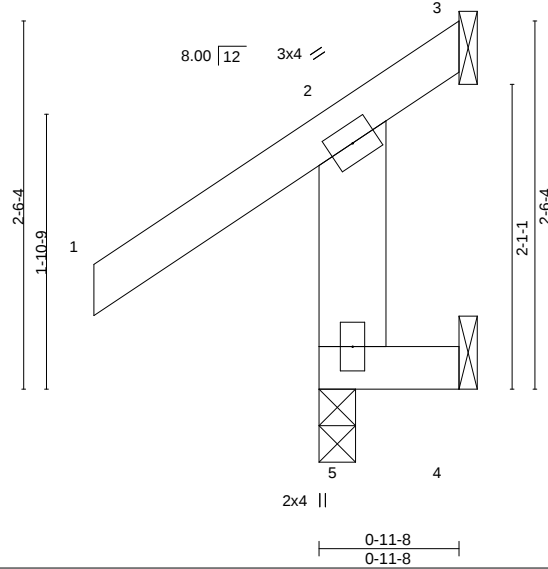
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:15 2022 Page 1

ID:9B5QRiZPhUL0yMYqzVn3hhzz6?b-NVFL9FZgY043?UZw0veoyHbUHjoMYkxjbeeic_yk011

-1-6-8 0-11-8
1-6-8 0-11-8

Scale = 1:15.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.27	Vert(LL)	-0.00	5	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.10	Vert(CT)	0.00	5	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MR						
								Weight: 10 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 0-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-0, 3=Mechanical, 4=Mechanical
Max Horz 5=58(LC 9)
Max Uplift 5=-16(LC 16), 3=-61(LC 1), 4=-46(LC 9)
Max Grav 5=240(LC 1), 3=12(LC 8), 4=39(LC 10)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; end vertical left 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 16 lb uplift at joint 5, 61 lb uplift at joint 3 and 46 lb uplift at joint 4.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

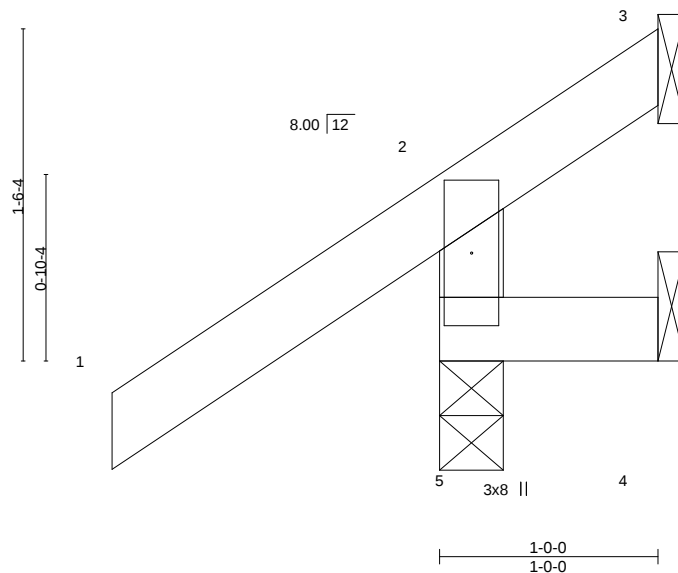
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:16 2022 Page 1
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Scale = 1:10.6



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 1-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2		
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; porch 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 5, 42 lb uplift at joint 3 and 15 lb uplift at joint 4.

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

August 29, 2022



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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641020
3235278	CJ02	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:17 2022 Page 1
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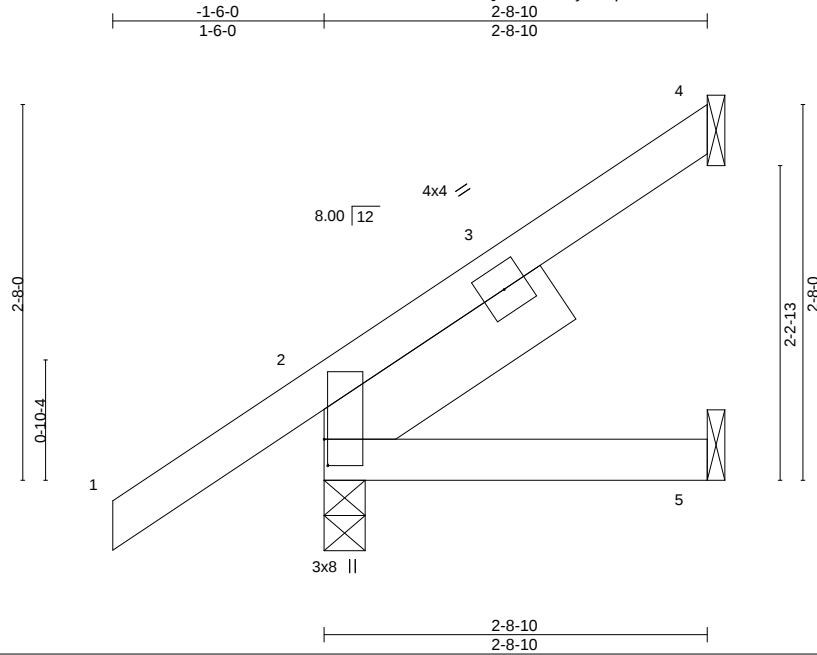


Plate Offsets (X,Y)--		[2:0-2-4,0-0-5]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.17	Vert(LL) -0.00 8 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.06	Vert(CT) -0.00 5-8 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP		Weight: 16 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=90(LC 12)
Max Uplift 4=-46(LC 12), 2=-34(LC 12), 5=-5(LC 12)
Max Grav 4=57(LC 19), 2=202(LC 1), 5=42(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-7-14 zone;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 46 lb uplift at joint 4, 34 lb uplift at joint 2 and 5 lb uplift at joint 5.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

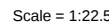
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:18 2022 Page 1
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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-11-8 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2		
WEBS	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDEL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 2-10-12 zone; end vertical left 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 9 lb uplift at joint 5, 63 lb uplift at joint 3 and 19 lb uplift at joint 4.

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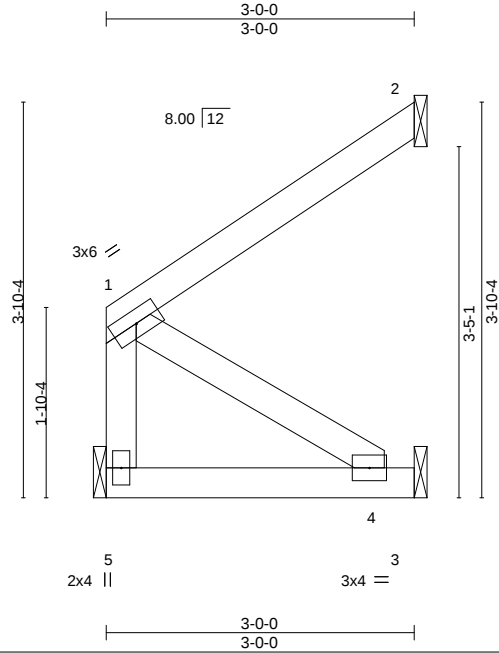


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.
3235278	CJ03A	Jack-Open	1	1	T28641022

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:19 2022 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-FHVR?ccBbFaVU6tiFlik67ICcKAAUYOIWGCwImyk01E



Scale = 1:22.4

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.12	Vert(LL)	-0.00	4-5	>999	MT20	244/190
TCDL 7.0	1.25	BC 0.09	Vert(CT)	-0.01	4-5	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT)	-0.00	2	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP					Weight: 16 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

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

REACTIONS.

(size) 5=Mechanical, 2=Mechanical, 3=Mechanical
Max Horz 5=64(LC 12)
Max Uplift 2=-58(LC 12), 3=-29(LC 12)
Max Grav 5=103(LC 1), 2=80(LC 19), 3=56(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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- 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 58 lb uplift at joint 2 and 29 lb uplift at joint 3.

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Date:

August 29,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641023
3235278	CJ03B	Jack-Open	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:20 2022 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-jT3ECycpMYiM6GSupSDzfKIMfkVLD?ASkVLTICyk01D

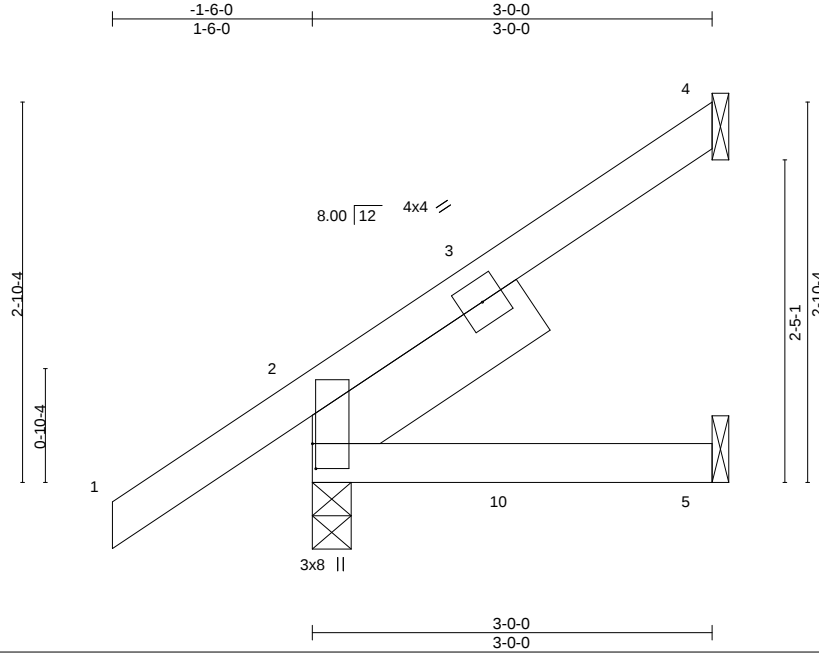


Plate Offsets (X,Y)--		[2:0-2-4,0-0-5]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.16	Vert(LL) 0.01 5-8 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.12	Vert(CT) -0.01 5-8 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01 2 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP		Weight: 17 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-11-8

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) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=97(LC 12)
Max Uplift 4=-51(LC 12), 2=-34(LC 12), 5=-19(LC 9)
Max Grav 4=62(LC 19), 2=210(LC 1), 5=48(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone; porch 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 51 lb uplift at joint 4, 34 lb uplift at joint 2 and 19 lb uplift at joint 5.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



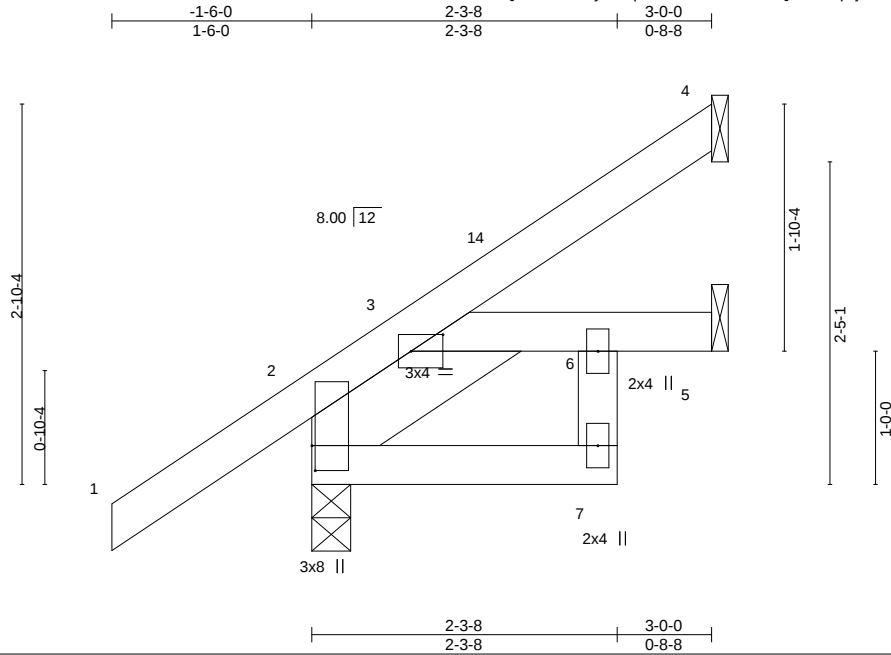
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641024
3235278	CJ03C	Jack-Open	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:21 2022 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-BfdcQldR7sqDjP14NAICBYqXP7q6ySQbzZ51qeyk01C



Scale = 1:17.3

Plate Offsets (X,Y)-- [2:0-2-4,0-0-5], [3:0-2-14,0-1-8]

LOADING (psf)	SPACING-		CSL.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.16	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.15	Vert(CT)	-0.00	12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MR						Weight: 20 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 6-7: 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 1-8-6

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) 4=Mechanical, 2=0-3-8, 5=Mechanical
 Max Horz 2=97(LC 12)
 Max Uplift 4=-34(LC 12), 2=-30(LC 12), 5=-18(LC 12)
 Max Grav 4=51(LC 19), 2=225(LC 1), 5=81(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone;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 34 lb uplift at joint 4, 30 lb uplift at joint 2 and 18 lb uplift at joint 5.

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Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

August 29,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641025
3235278	CJ04	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:22 2022 Page 1
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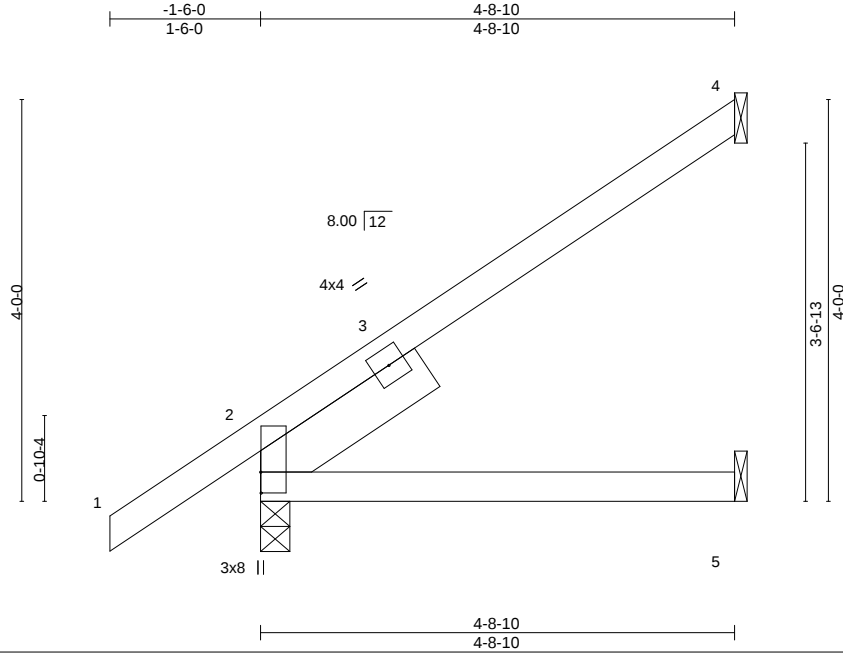


Plate Offsets (X,Y)--		[2:0-2-8,0-0-1]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.24	Vert(LL) 0.03 5-8 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.24	Vert(CT) -0.04 5-8 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.02 4 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP		Weight: 23 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-11-8

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=136(LC 12)
Max Uplift 4=-81(LC 12), 2=-35(LC 12), 5=-9(LC 12)
Max Grav 4=113(LC 19), 2=266(LC 1), 5=82(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-7-14 zone;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 81 lb uplift at joint 4, 35 lb uplift at joint 2 and 9 lb uplift at joint 5.

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

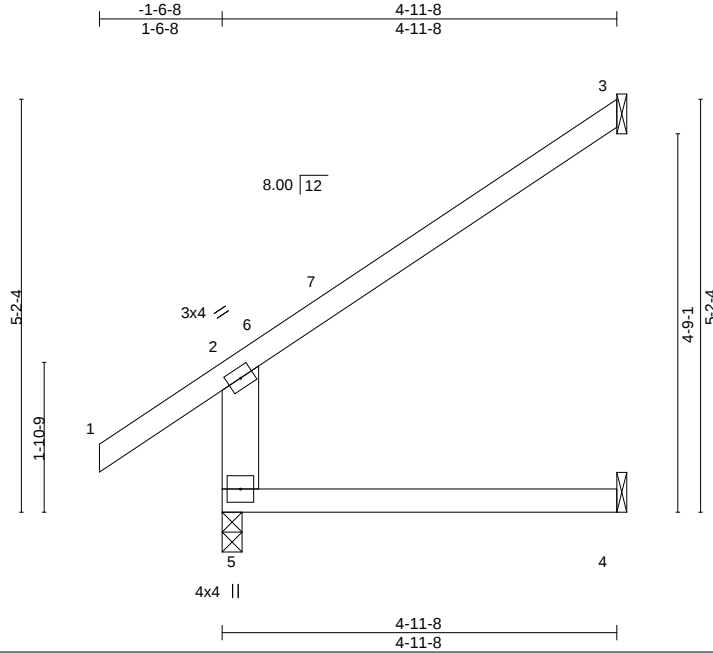


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641026
3235278	CJ05	Jack-Open	3	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:23 2022 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-82kMr_fhfT5wzjBTUbnghzwpJxR?QMwuQta7uXyk01A



Scale = 1:28.9

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.39	Vert(LL)	0.06	4-5	>958	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.50	Vert(CT)	-0.05	4-5	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	-0.12	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR					Weight: 23 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-0, 3=Mechanical, 4=Mechanical
Max Horz 5=122(LC 12)
Max Uplift 5=-11(LC 12), 3=-100(LC 12), 4=-20(LC 12)
Max Grav 5=286(LC 1), 3=122(LC 19), 4=86(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 4-10-12 zone; end vertical left 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 11 lb uplift at joint 5, 100 lb uplift at joint 3 and 20 lb uplift at joint 4.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

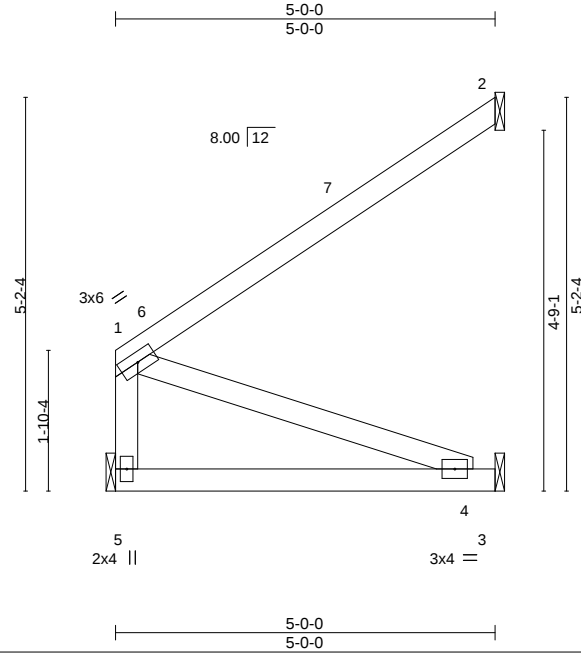


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.
3235278	CJ05A	Jack-Open	1	1	T28641027

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:24 2022 Page 1
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Scale = 1:30.4

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2'-0'-0"	TC 0.38	Vert(LL)	-0.03	4-5	>999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.28	Vert(CT)	-0.06	4-5	>909		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	0.00	2	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP					Weight: 26 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

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

REACTIONS.

(size) 5=Mechanical, 2=Mechanical, 3=Mechanical
Max Horz 5=110(LC 12)
Max Uplift 2=-99(LC 12), 3=-23(LC 12)
Max Grav 5=177(LC 1), 2=138(LC 19), 3=96(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-11-4 zone;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 99 lb uplift at joint 2 and 23 lb uplift at joint 3.

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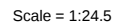
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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER	Left 2x6 SP No.2 1-11-8		

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone; porch 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 86 lb uplift at joint 4, 36 lb uplift at joint 2 and 32 lb uplift at joint 5.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641029
3235278	CJ05C	Jack-Open	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:26 2022 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-YdQVT?hayOTVqBv29jkNubYNB8VgdjK7rooVsyk017

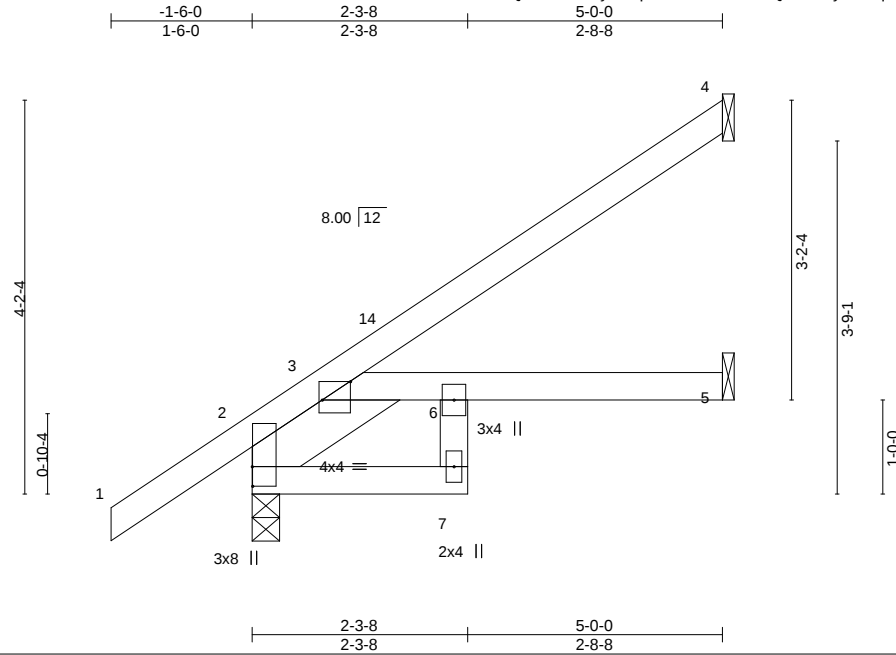


Plate Offsets (X,Y)--		[2:0-2-8,0-0-1], [3:0-3-10,Edge]													
LOADING	(psf)	SPACING-		CSL.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	0.04	5-6	>999	240	MT20	244/190			
TCDL	7.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.06	5-6	>999	180					
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	5	n/a	n/a					
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR											
												Weight: 27 lb	FT = 20%		

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-7: 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-8-6

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) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=143(LC 12)
Max Uplift 4=-72(LC 12), 2=-30(LC 12), 5=-20(LC 12)
Max Grav 4=109(LC 19), 2=296(LC 1), 5=103(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone;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 72 lb uplift at joint 4, 30 lb uplift at joint 2 and 20 lb uplift at joint 5.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641031
3235278	CJ08	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:28 2022 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-U?YFuhjqU0jD3U3QH8Nr_0dk9yD95ckda9Huakyk015

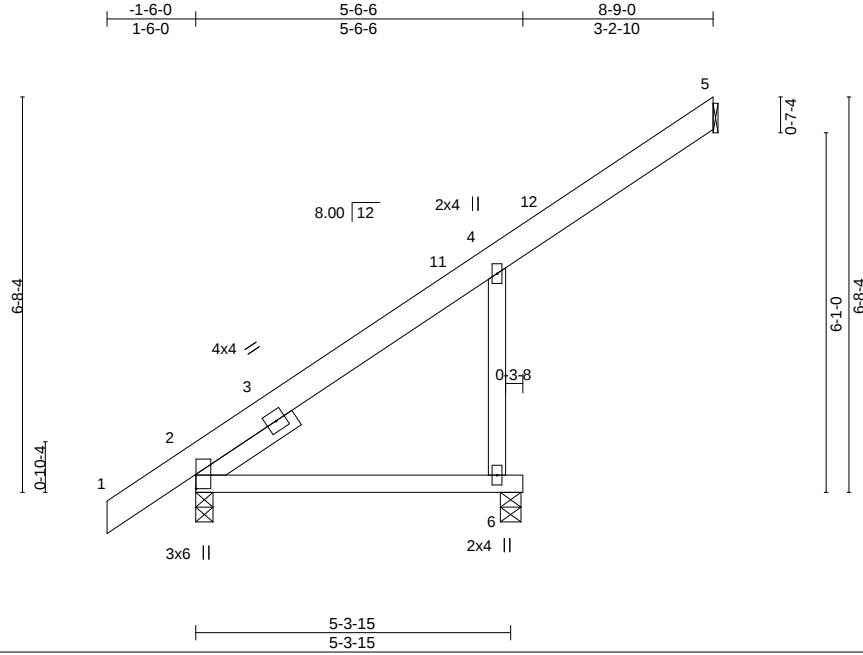


Plate Offsets (X,Y)-- [2:0-2-12,0-0-1]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.13	Vert(LL)	-0.02	6-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.18	Vert(CT)	-0.04	6-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	-0.01	5	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MP						Weight: 46 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=Mechanical, 2=0-3-8, 6=0-4-3
Max Horz 2=210(LC 12)
Max Uplift 5=-29(LC 14), 6=-204(LC 12)
Max Grav 5=64(LC 19), 2=256(LC 1), 6=362(LC 19)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-6=-319/309

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 8-8-8 zone;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 29 lb uplift at joint 5 and 204 lb uplift at joint 6.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

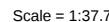
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:29 2022 Page 1
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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		
WEBS	2x4 SP No.3 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
	2-7: 2x6 SP No.2		

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 6-10-12 zone; end vertical left 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 4, 96 lb uplift at joint 5 and 20 lb uplift at joint 7.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29, 2022



Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for the 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 personnel 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, DSB-89 and BCSI Building Code**

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641033
3235278	EJ02	Jack-Partial	6	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:30 2022 Page 1

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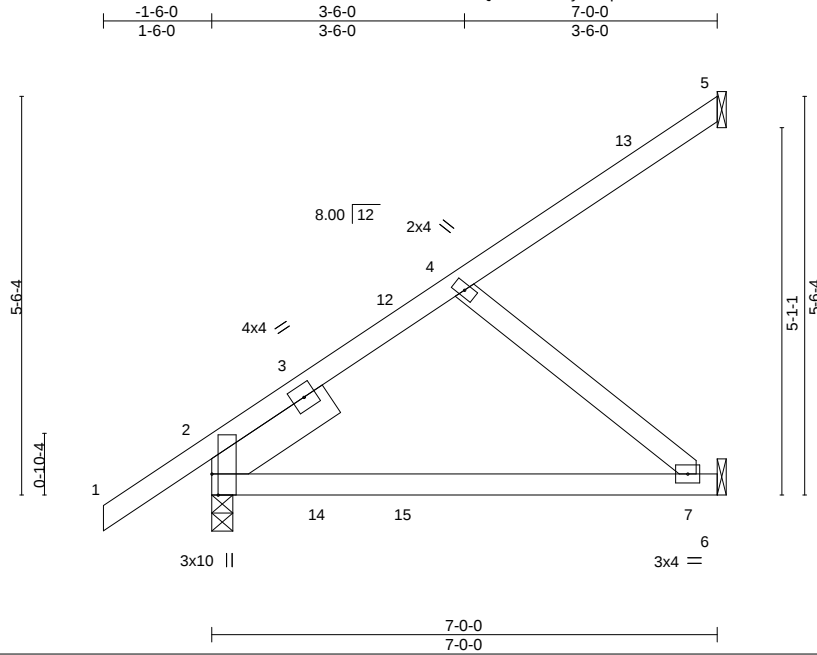


Plate Offsets (X,Y)-- [2:0-3-8,Edge]

LOADING (psf)	SPACING-		CSL.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.44	Vert(LL)	0.15	7-10	>565	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.44	Vert(CT)	-0.13	7-10	>649	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	-0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 37 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 1-11-8

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) 5=Mechanical, 2=0-3-8, 6=Mechanical
 Max Horz 2=182(LC 12)
 Max Uplift 5=-47(LC 12), 2=-48(LC 9), 6=-87(LC 9)
 Max Grav 5=82(LC 19), 2=346(LC 1), 6=175(LC 3)

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

TOP CHORD 2-4=-519/765
 WEBS 4-7=-199/296

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone; porch 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 47 lb uplift at joint 5, 48 lb uplift at joint 2 and 87 lb uplift at joint 6.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

August 29,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641034
3235278	EJ03	Jack-Partial	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Fri Aug 26 10:05:31 2022
Page 1
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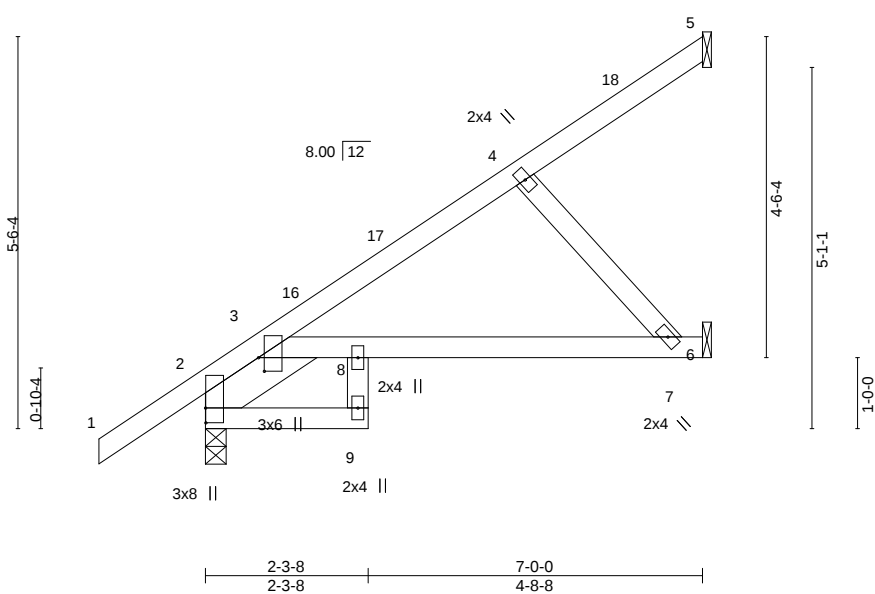


Plate Offsets (X,Y)--		[2:0-2-8,0-0-1], [3:0-2-5,0-1-0]											
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	0.08	7-8	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.16	7-8	>527	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.05	6	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 38 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 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
	8-9: 2x4 SP No.3		
WEBS	2x4 SP No.3		
SLIDER	Left 2x6 SP No.2 1-8-6		

REACTIONS. (size) 5=Mechanical, 2=0-3-8, 6=Mechanical
Max Horz 2=182(LC 12)
Max Uplift 5=-19(LC 14), 2=-43(LC 12), 6=-99(LC 12)
Max Grav 5=35(LC 19), 2=346(LC 1), 6=229(LC 19)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone;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 19 lb uplift at joint 5, 43 lb uplift at joint 2 and 99 lb uplift at joint 6.

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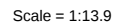
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:32 2022 Page 1
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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-1-13 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER	Left 2x6 SP No.2 1-11-8		

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCp=-0.18; MWFRS (envelope) gable end zone and C-C Corner(3) zone; 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 32 lb uplift at joint 4, 43 lb uplift at joint 2 and 1 lb uplift at joint 5.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
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August 29, 2022



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641036
3235278	HJ03	Jack-Open Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:33 2022 Page 1
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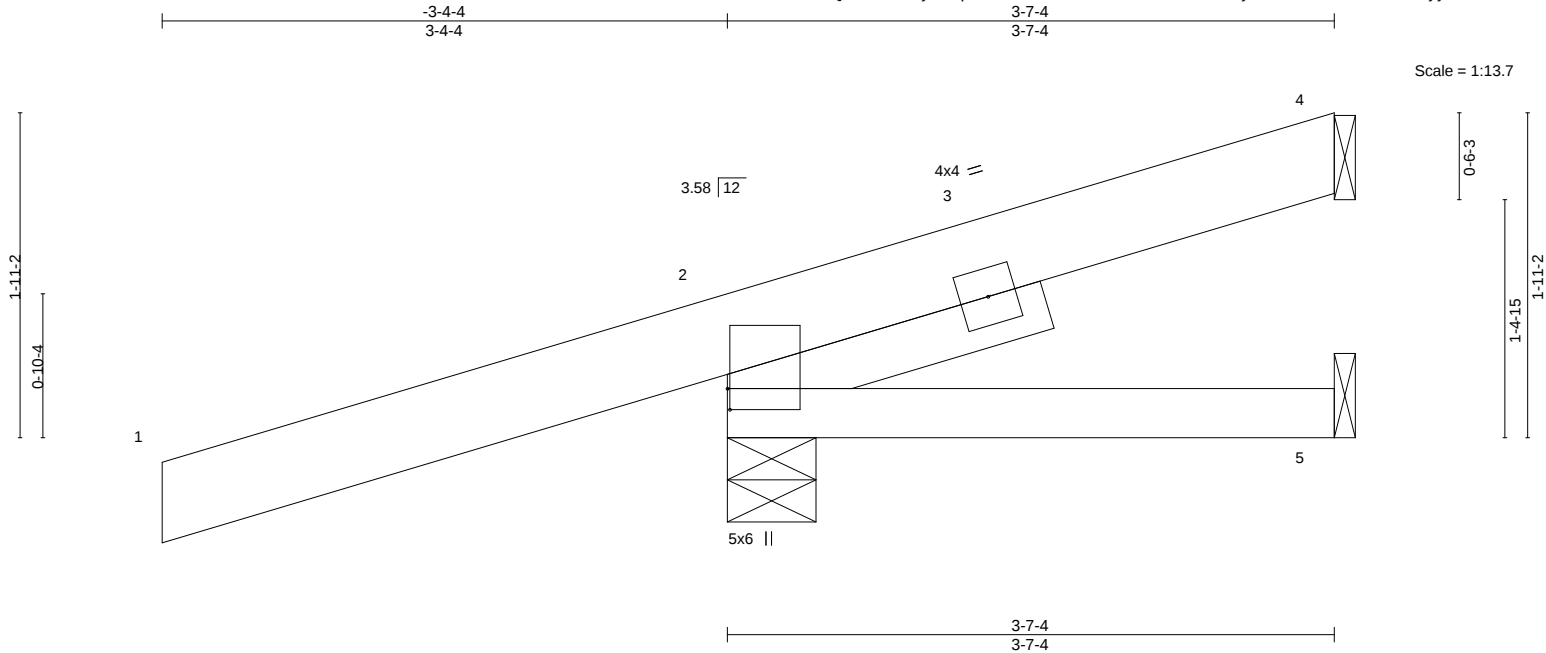


Plate Offsets (X,Y)--		[2:0-1-8,0-0-3]						
LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.25	TC 0.37	Vert(LL) 0.01 5-8	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL 1.25	BC 0.12	Vert(CT) 0.01 5-8	>999	180		
BCLL 0.0 *		Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00 2	n/a	n/a		
BCDL 10.0		Code FBC2020/TPI2014	Matrix-MP				Weight: 26 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x4 SP No.3 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-6-5, 5=Mechanical
Max Horz 2=82(LC 8)
Max Uplift 4=-23(LC 9), 2=-240(LC 8), 5=-13(LC 9)
Max Grav 4=29(LC 1), 2=398(LC 1), 5=46(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3) -3-4-4 to 0-8-14, Exterior(2R) 0-8-14 to 3-6-8 zone; porch 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 23 lb uplift at joint 4, 240 lb uplift at joint 2 and 13 lb uplift at joint 5.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



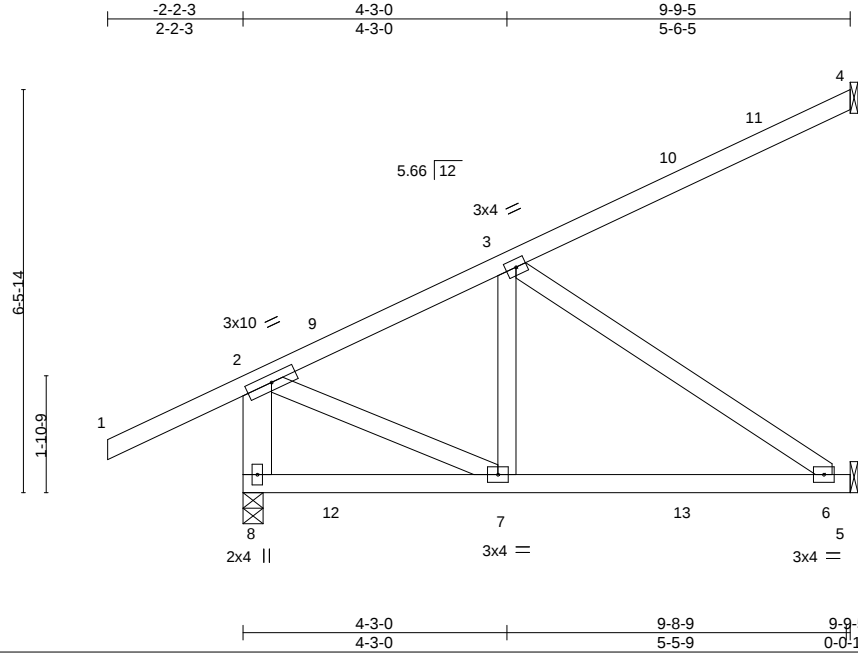
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641037
3235278	HJ10	Diagonal Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:34 2022 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-J9vW9knb3sTMnPWadOUFDHtdYNAYVFcWy5kDnOyk01?



Scale = 1:37.1

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.65	Vert(LL) -0.06	6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.57	Vert(CT) -0.12	6-7	>963	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.32	Horz(CT) -0.00	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 58 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-8: 2x6 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 6-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-14, 4=Mechanical, 5=Mechanical
Max Horz 8=161(LC 8)
Max Uplift 8=-348(LC 8), 4=-112(LC 8), 5=-227(LC 8)
Max Grav 8=472(LC 35), 4=156(LC 1), 5=292(LC 32)

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

TOP CHORD 2-8=-478/290, 2-3=-454/271
BOT CHORD 6-7=-337/341
WEBS 2-7=-246/467, 3-6=-413/409

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left 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 348 lb uplift at joint 8, 112 lb uplift at joint 4 and 227 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 138 lb up at 1-5-5, 66 lb down and 138 lb up at 1-5-5, 81 lb down and 62 lb up at 4-3-4, 86 lb down and 63 lb up at 4-3-4, and 113 lb down and 111 lb up at 7-1-3, and 115 lb down and 110 lb up at 7-1-3 on top chord, and 31 lb down and 77 lb up at 1-5-5, 31 lb down and 77 lb up at 1-5-5, 33 lb down and 37 lb up at 4-3-4, 32 lb down and 26 lb up at 4-3-4, and 53 lb down and 37 lb up at 7-1-3, and 52 lb down and 33 lb up at 7-1-3 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=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 7=3(B) 9=71(F=35, B=35) 10=-83(F=-53, B=-30) 12=58(F=29, B=29) 13=-40(F=-20, B=-20)

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Philip J. O'Regan PE No.58126
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Date:

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641038
3235278	HJ10B	DIAGONAL HIP GIRDER	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:35 2022 Page 1

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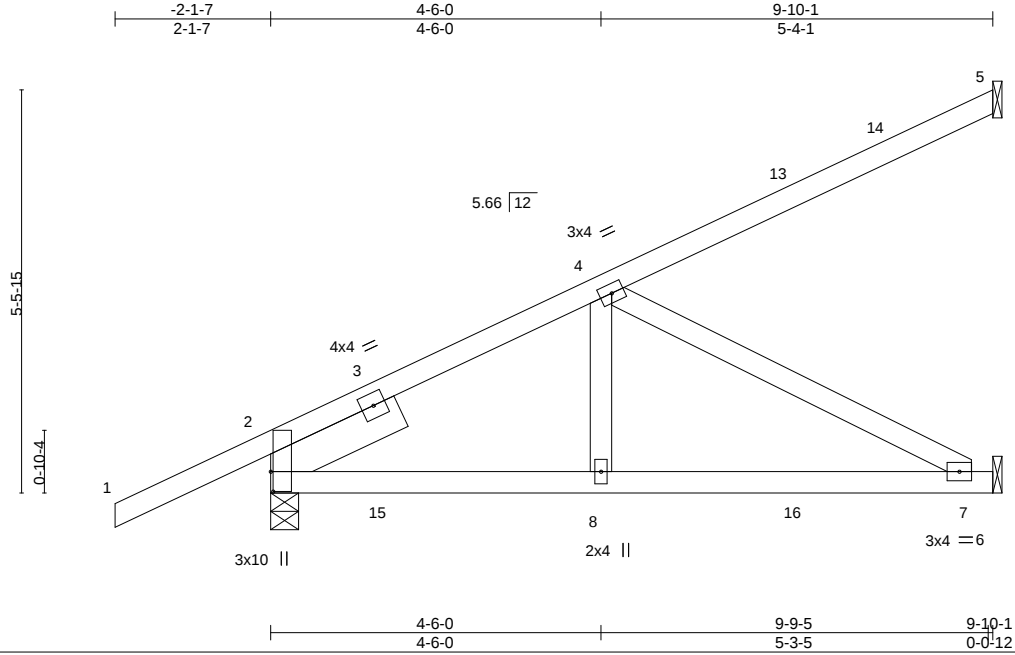


Plate Offsets (X,Y)-- [2:0-3-4,0-0-6]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	0.09	7-8	>999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.12	7-8	>989	180	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.31	Horz(CT)	-0.02	5	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 51 lb FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-2-5 oc bracing.

REACTIONS.

(size) 5=Mechanical, 2=0-4-9, 6=Mechanical
 Max Horz 2=182(LC 8)
 Max Uplift 5=-100(LC 8), 2=-263(LC 8), 6=-214(LC 5)
 Max Grav 5=154(LC 1), 2=478(LC 1), 6=287(LC 1)

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

TOP CHORD 2-4=-501/304
 BOT CHORD 2-8=-366/422, 7-8=-366/422
 WEBS 4-8=-94/253, 4-7=-478/415

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch 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 5, 263 lb uplift at joint 2 and 214 lb uplift at joint 6.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 51 lb down and 118 lb up at 1-6-1, 51 lb down and 118 lb up at 1-6-1, 78 lb down and 53 lb up at 4-4-0, 78 lb down and 53 lb up at 4-4-0, and 105 lb down and 97 lb up at 7-1-15, and 105 lb down and 97 lb up at 7-1-15 on top chord, and 1 lb down and 45 lb up at 1-6-1, 1 lb down and 45 lb up at 1-6-1, 19 lb down and 27 lb up at 4-4-0, 19 lb down and 27 lb up at 4-4-0, and 41 lb down and 48 lb up at 7-1-15, and 41 lb down and 48 lb up at 7-1-15 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=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-5=-54, 6-9=-20
 Concentrated Loads (lb)
 Vert: 8=-9(F=-5, B=-5) 3=60(F=30, B=30) 13=-70(F=-35, B=-35) 16=-61(F=-31, B=-31)

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Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

August 29,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

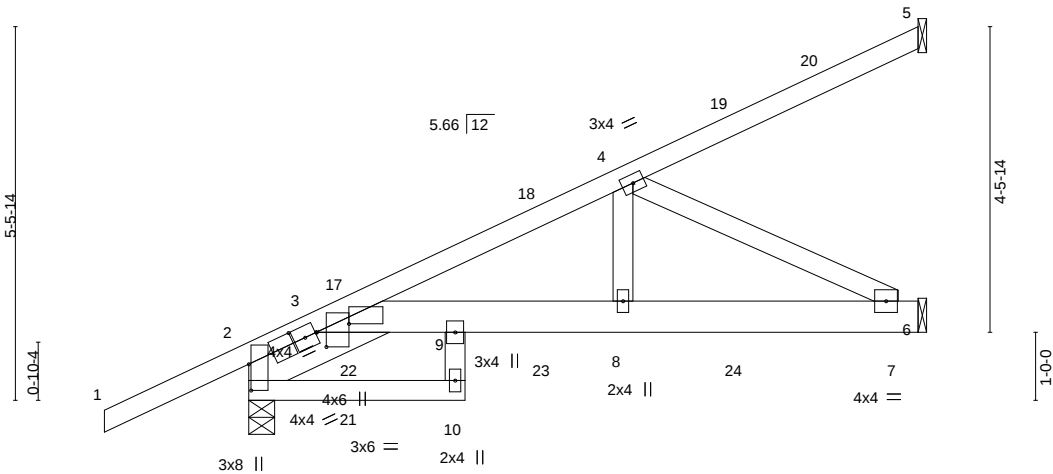
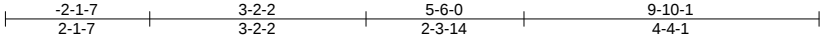
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641039
3235278	HJ10C	Diagonal Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Fri Aug 26 10:05:37 2022
Page 1
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Scale = 1:33.9

Plate Offsets (X,Y)--		[2:0-4-10,0-0-6], [3:0-2-9,0-1-12], [3:0-4-8,0-2-0], [3:0-5-12,0-1-8]
LOADING (psf)	SPACING-	CSI.
TCLL 20.0	Plate Grip DOL 1.25	TC 0.30
TCDL 7.0	Lumber DOL 1.25	BC 0.34
BCLL 0.0 *	Rep Stress Incr NO	WB 0.31
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS
		DEFL.
		in (loc) l/defl L/d
		Vert(LL) 0.04 9 >999 240
		Vert(CT) -0.04 9 >999 180
		Horz(CT) -0.02 6 n/a n/a
		PLATES
		MT20
		GRIP
		244/190
		Weight: 60 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 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 2-2-1	

REACTIONS. (size) 5=Mechanical, 2=0-4-9, 6=Mechanical
Max Horz 2=182(LC 8)
Max Uplift 5=63(LC 8), 2=-236(LC 8), 6=-192(LC 8)
Max Grav 5=106(LC 1), 2=506(LC 1), 6=379(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-12=-348/106, 3-4=-799/350
BOT CHORD 3-9=-290/554, 8-9=-417/682, 7-8=-417/682
WEBS 4-8=-176/400, 4-7=-765/467

- NOTES-**
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 5, 236 lb uplift at joint 2 and 192 lb uplift at joint 6.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 51 lb down and 118 lb up at 1-6-1, 51 lb down and 118 lb up at 1-6-1, 69 lb down and 35 lb up at 4-4-0, 69 lb down and 35 lb up at 4-4-0, and 103 lb down and 82 lb up at 7-1-15, and 103 lb down and 82 lb up at 7-1-15 on top chord, and 1 lb down and 45 lb up at 1-6-1, 1 lb down and 45 lb up at 1-6-1, 52 lb down and 32 lb up at 4-4-0, 52 lb down and 32 lb up at 4-4-0, and 64 lb down and 39 lb up at 7-1-15, and 64 lb down and 39 lb up at 7-1-15 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=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-54, 10-11=-20, 6-9=-20

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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641039
3235278	HJ10C	Diagonal Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:37 2022 Page 2
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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 17=60(F=30, B=30) 19=-50(F=-25, B=-25) 23=-52(F=-26, B=-26) 24=-98(F=-49, B=-49)

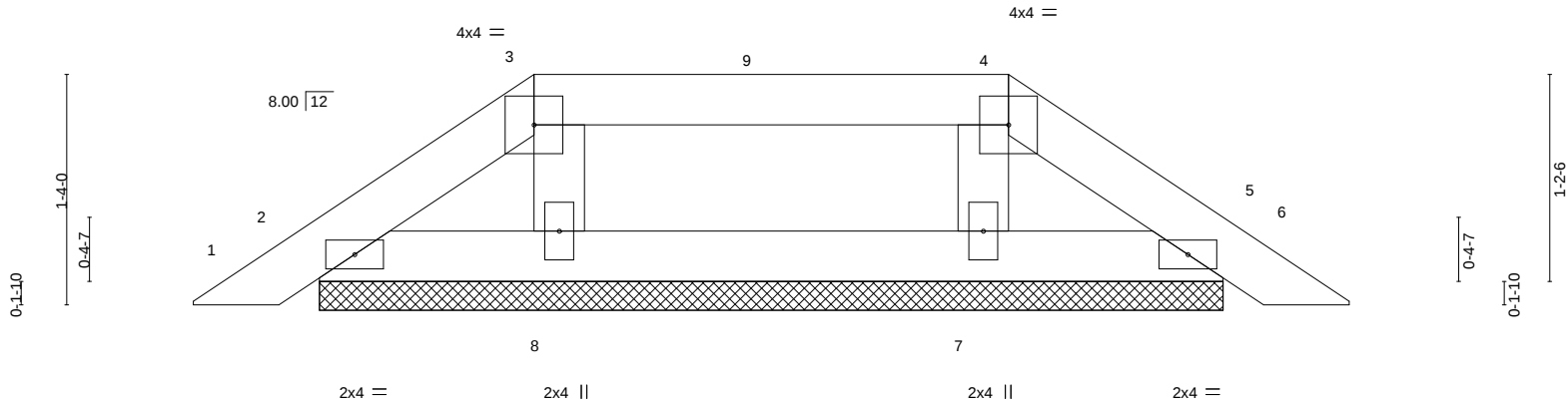
Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641040
3235278	PB01	Piggyback	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:38 2022 Page 1
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6-8-14
6-8-14

Scale = 1:13.3



6-8-14
6-8-14

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.11	Vert(LL)	0.00	5	n/r	120	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	0.00	5	n/r	120	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	5	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P						
								Weight: 21 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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.

All bearings 5-2-11.
(lb) - Max Horz 2=26(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 8, 7
Max Grav All reactions 250 lb or less at joint(s) 2, 5, 8, 7

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;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, 5, 8, 7.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Date:

August 29,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

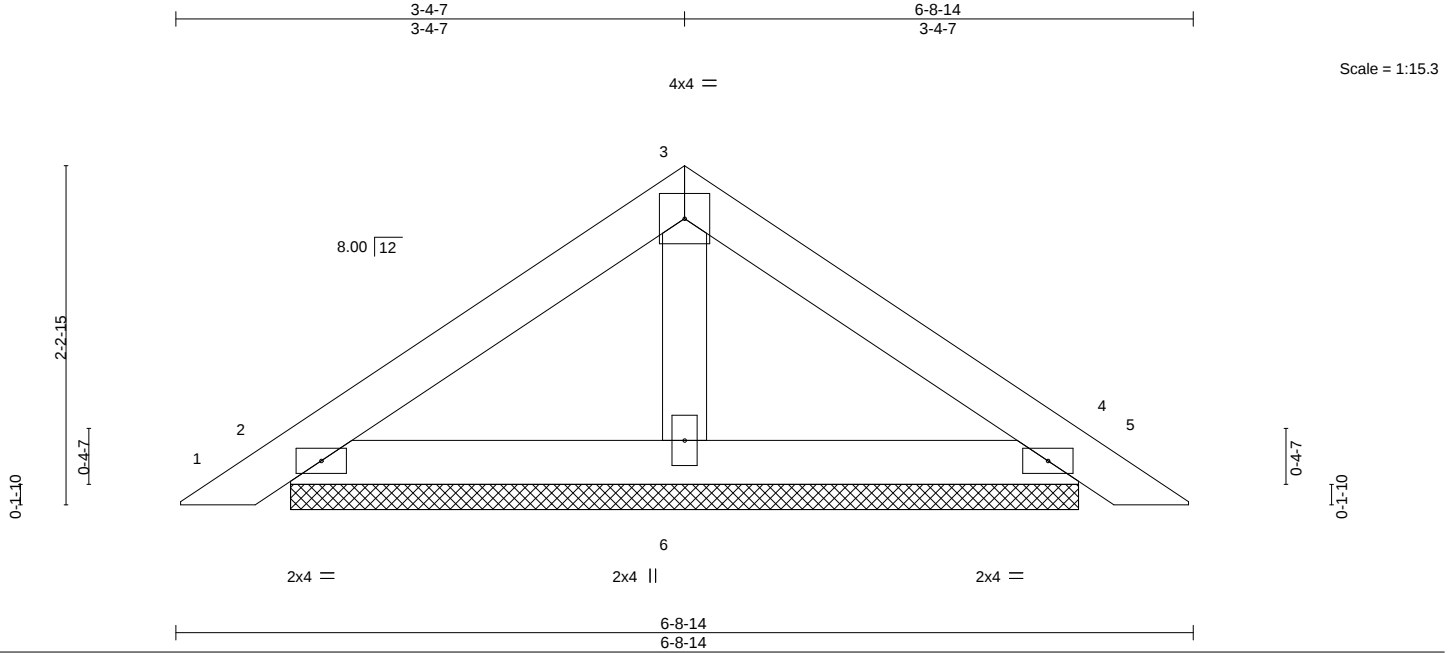


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641041
3235278	PB02	Piggyback	10	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:39 2022 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 1.25	TC 0.11	Vert(LL) 0.00	5	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.07	Vert(CT) 0.00	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P					Weight: 22 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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=5-2-11, 4=5-2-11, 6=5-2-11
Max Horz 2=-45(LC 10)
Max Uplift 2=-42(LC 12), 4=-48(LC 13), 6=-12(LC 12)
Max Grav 2=132(LC 1), 4=132(LC 1), 6=175(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; 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.
- 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, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

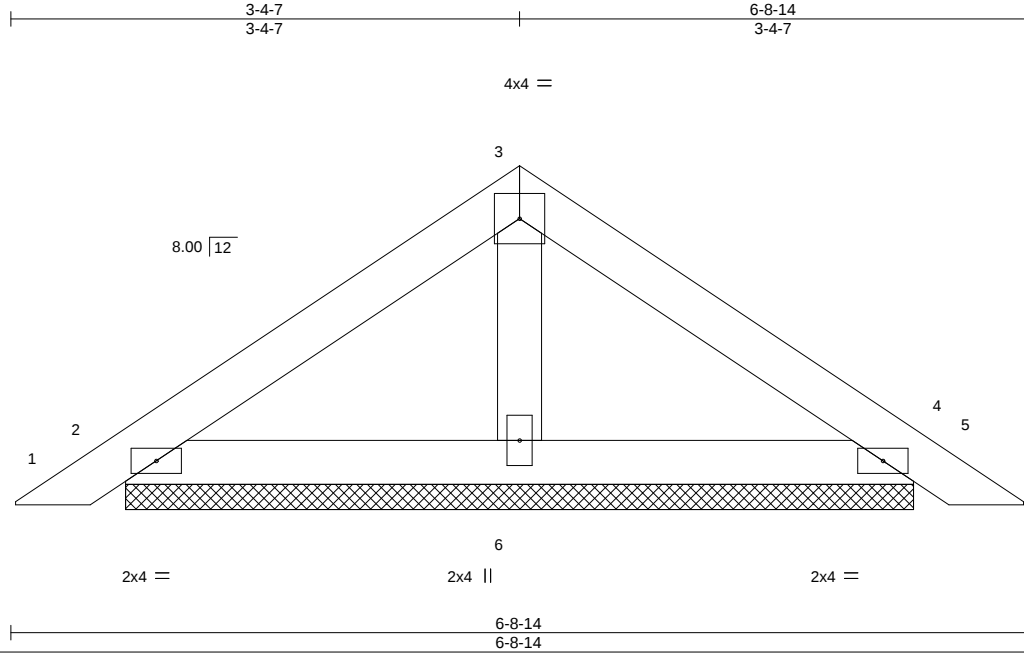


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641042
3235278	PB03	Piggyback	2	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:40 2022 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-8JGoPosMfiEWVK_k_fafTY7pKoLlv2zOL1BX_2yk00v



Scale = 1:15.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2'-0'-0"	TC 0.05	Vert(LL)	0.00	5	n/r	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.03	Vert(CT)	0.00	5	n/r		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P					Weight: 44 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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=5-2-11, 4=5-2-11, 6=5-2-11
Max Horz 2=-45(LC 10)
Max Uplift 2=-42(LC 12), 4=-48(LC 13), 6=-12(LC 12)
Max Grav 2=132(LC 1), 4=132(LC 1), 6=175(LC 1)

THIS TRUSS IS DESIGNED TO SUPPORT ONLY 2'-0"
OF UNIFORM LOAD AS SHOWN.

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

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: 2x4 - 1 row at 0-9'-0" oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;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.
- 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" tall by 2'-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, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



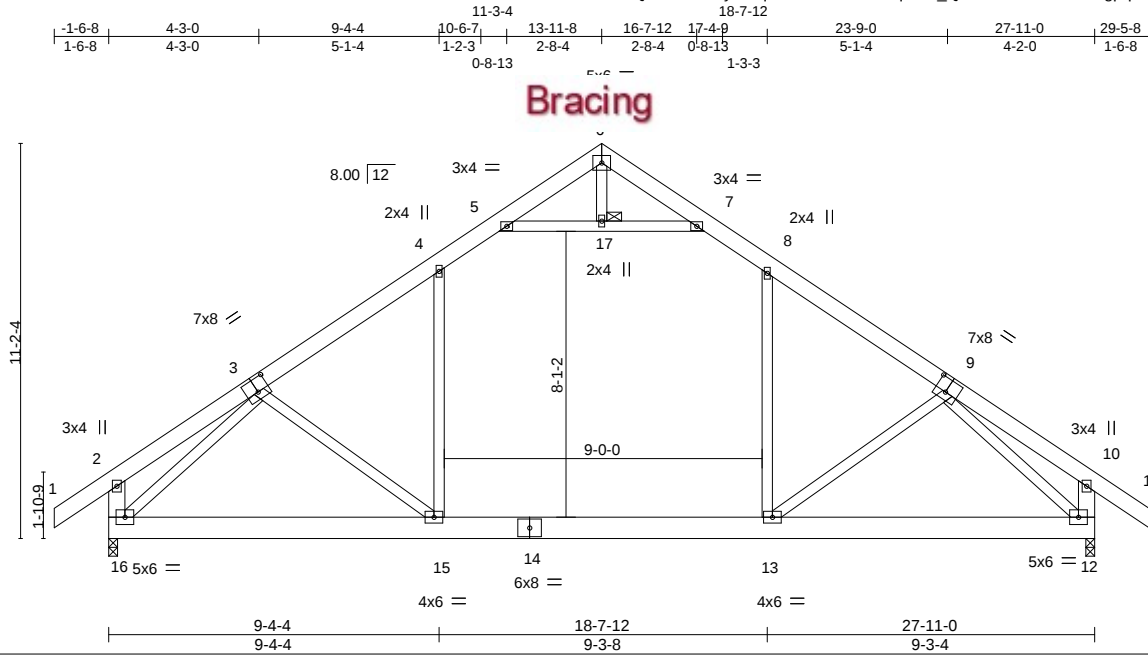
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641043
3235278	T01	Attic	12	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:41 2022 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-cVqAd8t_Q?MN7UZwYN6u?mgpqBdFeHIYZhx4WUyk00u



Scale = 1:65.2

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.71	Vert(LL)	-0.14 13-15	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.31	Vert(CT)	-0.24 13-15	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.94	Horz(CT)	0.02 12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS	Attic	-0.08 13-15	1362	360	Weight: 245 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x8 SP 2400F 2.0E
 WEBS 2x4 SP No.3 *Except*
 2-16,10-12: 2x6 SP No.2

REACTIONS.

(size) 16=0-3-0, 12=0-3-0
 Max Horz 16=-275(LC 10)
 Max Uplift 16=-74(LC 12), 12=-73(LC 13)
 Max Grav 16=1495(LC 20), 12=1498(LC 21)

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

TOP CHORD 3-4=-1735/39, 4-5=-1250/97, 7-8=-1256/96, 8-9=-1737/37, 2-16=-273/118,
 10-12=-274/119
 BOT CHORD 15-16=-73/1405, 13-15=0/1400, 12-13=0/1269
 WEBS 4-15=0/613, 5-17=-1511/78, 7-17=-1511/78, 8-13=0/610, 3-16=-1686/1, 9-12=-1690/0

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 13-11-8, Exterior(2R) 13-11-8 to 16-11-15, Interior(1) 16-11-15 to 29-5-8 zone; 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.
- Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-17, 7-17; Wall dead load (5.0psf) on member(s).4-15, 8-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 12.
- Attic room checked for L/360 deflection.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

August 29,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

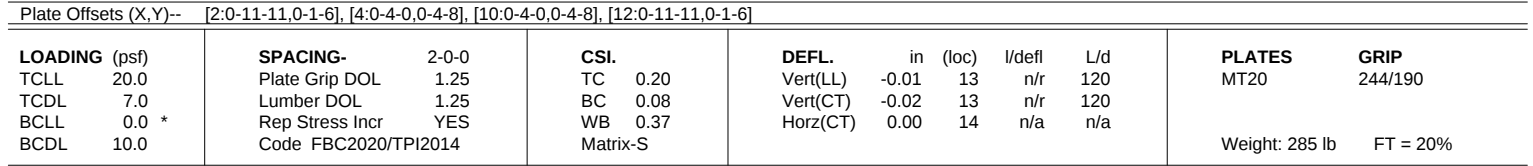
Builders FirstSource (Lake City, FL) Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:43 2022 Page 1
 ID:9B5QRtZpHUL0yMYqzVn3hhz6?b-Yuyw1puEydC5MojJfn8M4BIH?MD6KAr1_QBbNyk00s

1H 13C

1.6-8 4-3-0 9-4-4 10-6-7 13-11-8 16-1-7 17-4-9 23-9-0 27-11-0 29-5-8

1-6-8 4-3-0 5-1-4 1-2-3 1-3-2 2-1-15 2-1-15 1-3-2 1-3-3 5-1-4 4-2-0 1-6-8

5x6 = Scale = 1:71.7



REACTIONS. All bearings 27-11-0.
 (lb) - Max Horz 24=-264(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 24, 14, 15, 17, 23, 21 except
 20=-166(LC 12), 18=-161(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 15, 16, 23, 22 except 20=898(LC
 20), 18=891(LC 21), 24=565(LC 1), 14=563(LC 1)

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

TOP CHORD	4-5=-343/38, 5-6=-347/90, 8-9=-348/87, 9-10=-334/27, 2-24=-260/107, 12-14=-261/107
BOT CHORD	23-24=-112/411, 22-23=-112/411, 21-22=-112/411, 20-21=-112/411, 18-20=-44/273, 17-18=0/323, 16-17=0/323, 15-16=0/323, 14-15=0/323
WEBS	5-20=-400/109, 9-18=-391/104, 4-24=-354/7, 10-14=-349/2

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCFL=4.2psf; BCFL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 13-11-8, Exterior(2R) 13-11-8 to 16-11-8, Interior(1) 16-11-8 to 29-5-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCFL = 10.0psf.
 - 10) Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-25, 8-25; Wall dead load (5.0psf) on member(s). 5-20, 9-18
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 14, 15, 17, 23, 21 except (jt=lb) 20=166, 18=161.
 - 12) Attic room checked for L/360 deflection.
- This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
- Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:
- August 29, 2022

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August 29, 2022



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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641045
3235278	T02	ATTIC GIRDER	2	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:45 2022 Page 1
ID:9B5QRiZPhUL0yMYqzVn3hhzz6?b-VH3hSVwUTEspc5shnCAqAcqUAp_5aCE7UilvFyk00q

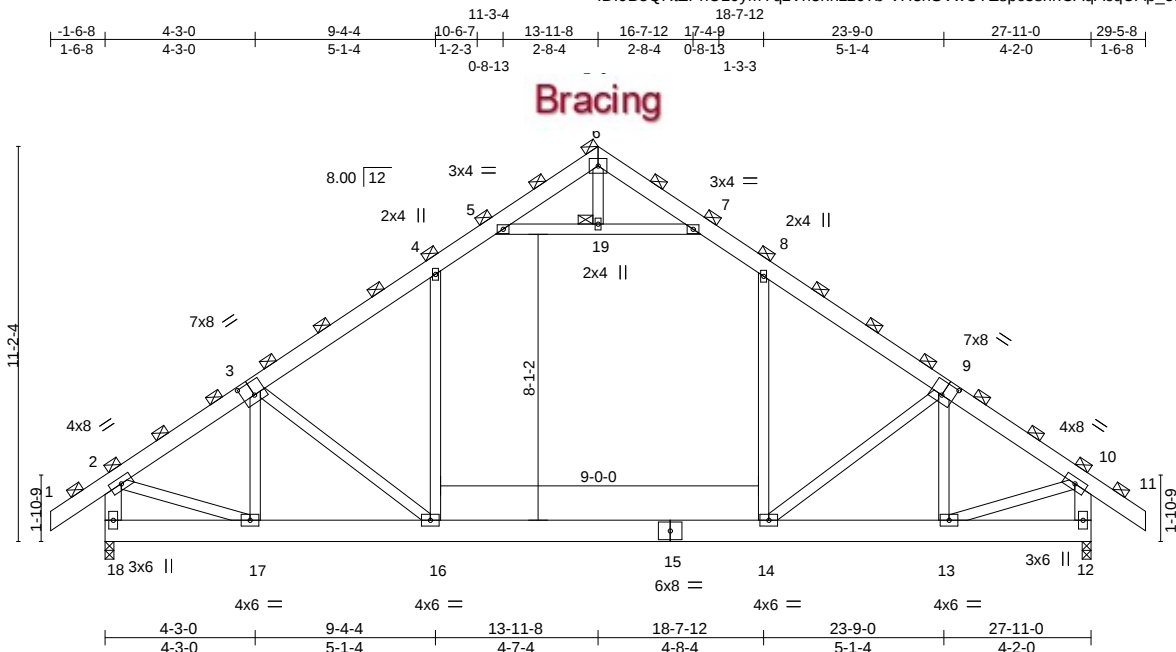


Plate Offsets (X,Y)--		[3:0-4-0,0-4-8], [9:0-4-0,0-4-8]			
LOADING (psf)	SPACING- 4-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.81	Vert(LL) -0.12 14-16 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.31	Vert(CT) -0.22 14-16 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.46	Horz(CT) 0.01 12 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Attic -0.07 14-16 1698 360	Weight: 502 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
BOT CHORD 2x8 SP 2400F 2.0E	(Switched from sheeted: Spacing > 2-8-0).
WEBS 2x4 SP No.3 *Except*	Rigid ceiling directly applied or 10-0-0 oc bracing.
2-18,10-12: 2x6 SP No.2	1 Brace at Jt(s): 6, 19, 2, 10
	JOINTS

REACTIONS. (size) 18=0-3-0, 12=0-3-0
Max Horz 18=-549(LC 10)
Max Uplift 18=-148(LC 12), 12=-147(LC 13)
Max Grav 18=2991(LC 20), 12=2996(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3059/115, 3-4=-3501/82, 4-5=-2506/191, 5-6=-87/366, 6-7=-92/357,
7-8=-2518/190, 8-9=-3505/80, 9-10=-3047/115, 2-18=-2807/209, 10-12=-2813/208
BOT CHORD 17-18=-413/560, 16-17=-201/2797, 14-16=0/2814, 13-14=0/2394
WEBS 3-17=-1165/99, 3-16=-274/559, 4-16=-1/1249, 8-14=0/1245, 9-14=-275/545,
9-13=-1180/98, 5-19=-3033/156, 7-19=-3033/156, 2-17=-3/2468, 10-13=0/2461

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 13-11-8, Exterior(2R) 13-11-8 to 16-11-15, Interior(1) 16-11-15 to 29-5-8 zone; 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.
 - Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-19, 7-19; Wall dead load (5.0psf) on member(s).4-16, 8-14
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=148, 12=147.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.

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

August 29,2022

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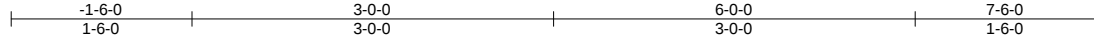


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641046
3235278	T02G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:46 2022 Page 1
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Scale = 1:19.1

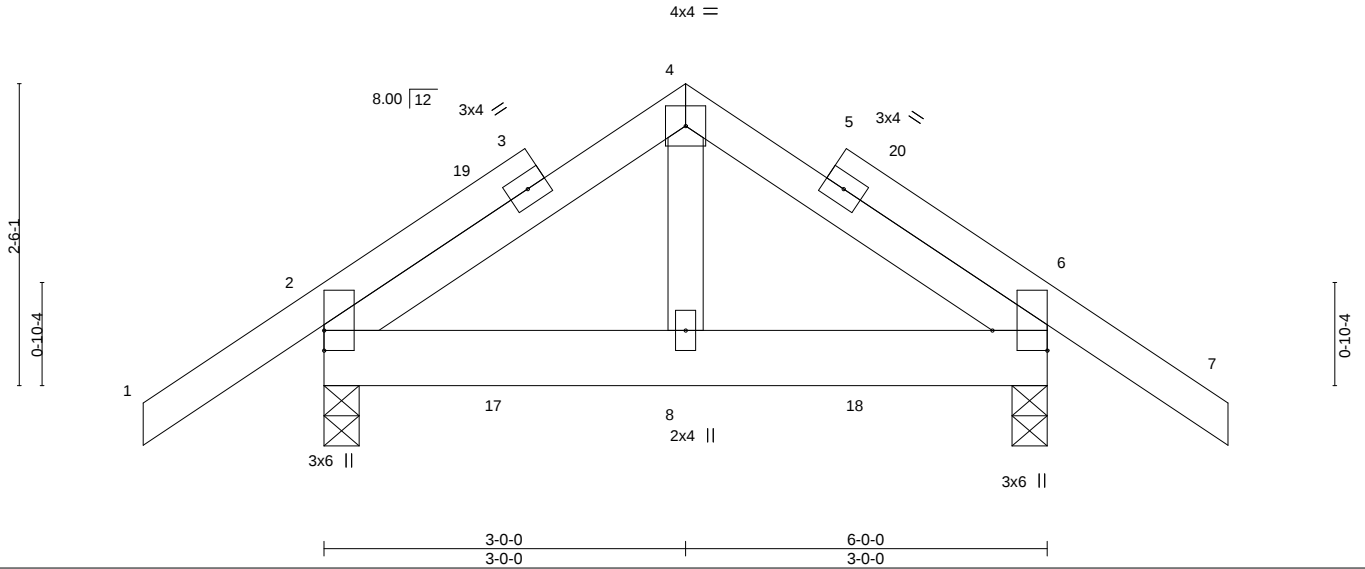


Plate Offsets (X,Y)-- [6:Edge,0-5-7]

LOADING (psf)	SPACING-	CSL.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.21	Vert(LL)	-0.00	8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.03	Vert(CT)	-0.00	8	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP						Weight: 39 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
Max Horz 2=-58(LC 10)
Max Uplift 2=-78(LC 12), 6=-78(LC 13)
Max Grav 2=303(LC 1), 6=303(LC 1)

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

TOP CHORD 2-4=-173/280, 4-6=-173/280

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 3-0-0, Corner(3R) 3-0-0 to 6-0-0, Exterior(2N) 6-0-0 to 7-6-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 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.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641047
3235278	T03	Attic Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:48 2022 Page 2
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-vslp5XyNm9ENTZbGSLkXnES?t0?ena6aAG7yGayk00n

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-54, 2-4=-54, 4-5=-64, 5-6=-54, 6-7=-54, 7-8=-64, 8-10=-54, 10-11=-54, 16-18=-20, 14-16=-134(F=-94), 12-14=-20, 5-7=-10
- Drag: 4-16=-10, 8-14=-10
- Concentrated Loads (lb)
- Vert: 16=-240(F) 14=-240(F)

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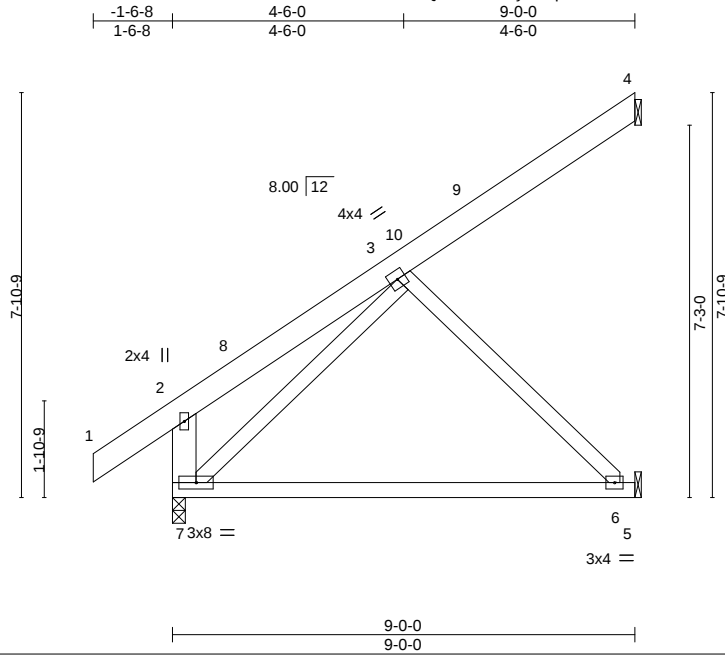
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641048
3235278	T04	Jack-Partial	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:49 2022 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b=N2JBltz?XTME4jAT02FmKS?K?QEWW4sjPwtVo0yk00m



Scale = 1:44.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	Vert(LL)	-0.24	6-7	>442	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.80	Vert(CT)	-0.48	6-7	>218		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.16	Horz(CT)	0.01	4	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 64 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-7: 2x6 SP No.2

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 5=Mechanical, 7=0-3-0
Max Horz 7=195(LC 12)
Max Uplift 4=-49(LC 12), 5=-100(LC 12), 7=-32(LC 12)
Max Grav 4=114(LC 19), 5=227(LC 19), 7=428(LC 1)

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

TOP CHORD 2-7=-269/170

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 8-11-4 zone; end vertical left 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 100 lb uplift at joint(s) 4, 5, 7.

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Date:

August 29,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



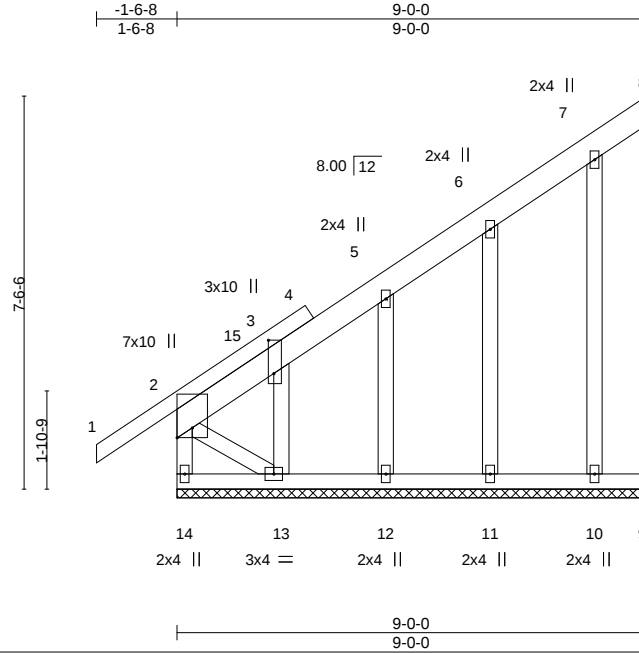
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641049
3235278	T04G	GABLE	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:50 2022 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-rEtaVD_dlmU5itfZmm?tfXUjqmVFXPteac3LTyk00l



Scale = 1:44.1

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.19	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	-0.01	8	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-S						Weight: 75 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-4: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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, Except: 6-0-0 oc bracing: 13-14.

REACTIONS.

All bearings 9-0-0.
(lb) - Max Horz 14=205(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 14, 8, 12, 11, 10 except 13=-210(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 14, 8, 9, 13, 12, 11, 10

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-14=-325/145, 2-3=-315/161, 3-5=-264/126
BOT CHORD 13-14=-389/183
WEBS 2-13=-222/474

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-8 to 1-5-8, Exterior(2N) 1-5-8 to 9-0-0 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8, 12, 11, 10 except (jt=lb) 13=210.

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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

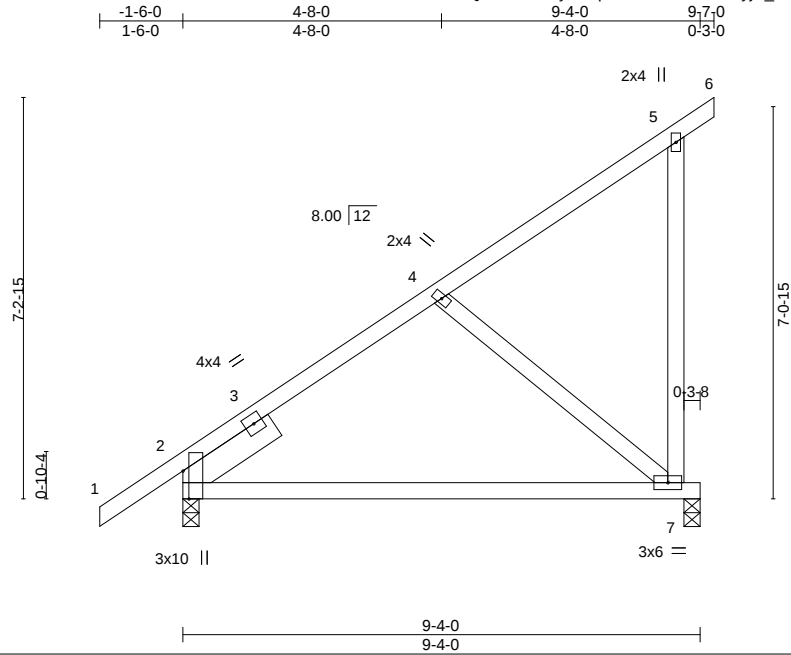


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641050
3235278	T05	MONOPITCH	3	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:51 2022 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-JRRyjY_F34cyK0Kr7THEPt4bWD_R__L0tEMctvyk00k



Scale = 1:41.6

Plate Offsets (X,Y)-- [2:0-6-1,Edge]											
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.44		Vert(LL)	-0.15 7-10	>715	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.57		Vert(CT)	-0.30 7-10	>358	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.16		Horz(CT)	0.03 2	n/a	n/a		
BCDL 10.0		Code FBC2020/TPI2014		Matrix-MS						Weight: 56 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 7=0-3-8
Max Horz 2=247(LC 12)
Max Uplift 2=-32(LC 12), 7=-192(LC 12)
Max Grav 2=416(LC 1), 7=379(LC 19)

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

TOP CHORD 2-4=-766/0
WEBS 4-7=-270/224

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-7-0 zone; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=192.

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Date:

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



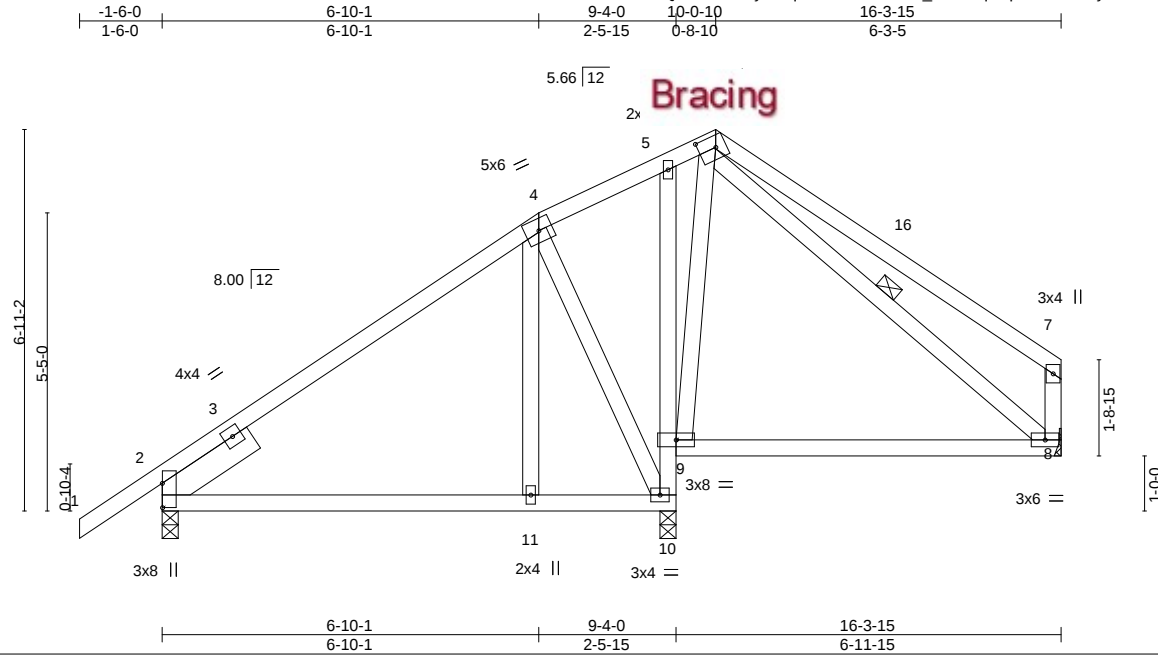
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641051
3235278	T06	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:52 2022 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b=nd_Kwu?ttqOkpxAu1hAoTy4dmlLgJqJ95u5APLyk00j



Scale = 1:41.8

Plate Offsets (X,Y)--		[2:0-5-5,0-0-1], [6:0-3-12,0-2-8]							
LOADING (psf)		SPACING-		CSL		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	in (loc)	I/defl	L/d	GRIP
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(LL)	-0.08	8-9	>999
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Vert(CT)	-0.16	8-9	>528
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Horz(CT)	0.03	2	n/a
								Weight: 107 lb	
								FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 5-10: 2x4 SP No.3
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 1-11-8

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, Except:
 6-0-0 oc bracing: 9-10.
 WEBS 1 Row at midpt 6-8

REACTIONS.

(size) 2=0-3-8, 10=0-3-8, 8=Mechanical
 Max Horz 2=159(LC 12)
 Max Uplift 2=-149(LC 12), 10=-12(LC 12), 8=-128(LC 13)
 Max Grav 2=468(LC 1), 10=499(LC 1), 8=312(LC 1)

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

TOP CHORD 2-4=-253/210
 WEBS 4-10=-363/165

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-0-10, Exterior(2R) 10-0-10 to 13-0-10, Interior(1) 13-0-10 to 16-2-3 zone; 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=149, 8=128.

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641052
3235278	T07	Roof Special Girder	1	1	Job Reference (optional)	

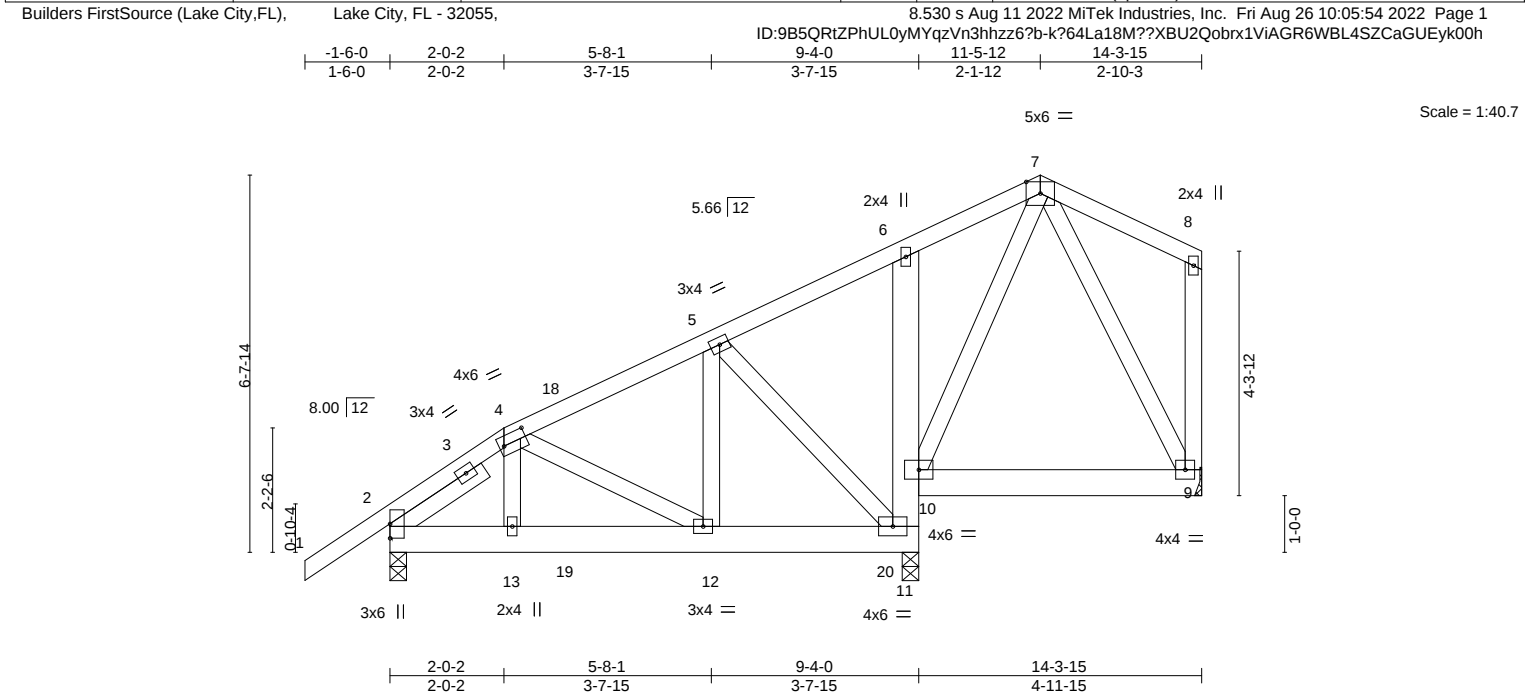


Plate Offsets (X,Y)-- [4:0-5-0,0-2-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	in (loc)	l/defl	MT20	GRIP
TCDL	7.0	Lumber DOL	1.25	BC	0.10	9-10	>999		244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.16	9-10	>999		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		n/a	n/a		
								Weight: 115 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	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3		
SLIDER	Left 2x4 SP No.3 1-11-8		

REACTIONS.	
(size)	2=0-3-8, 11=0-3-8, 9=Mechanical
Max Horz	2=205(LC 8)
Max Uplift	2=-105(LC 8), 11=-326(LC 8), 9=-33(LC 9)
Max Grav	2=427(LC 1), 11=746(LC 1), 9=150(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-4=-341/91, 4-5=-294/80
BOT CHORD	2-13=-207/273, 12-13=-206/274, 10-11=-407/174
WEBS	5-11=-359/199

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=105, 11=326.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 79 lb down and 50 lb up at 3-1-4, 108 lb down and 91 lb up at 5-11-3, and 137 lb down and 119 lb up at 8-9-2, and 58 lb down and 26 lb up at 11-5-12 on top chord, and 7 lb down and 6 lb up at 2-0-2, 20 lb down and 12 lb up at 3-1-4, and 45 lb down and 23 lb up at 5-11-3, and 68 lb down and 31 lb up at 8-9-2 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=1.25, Plate Increase=1.25	
Uniform Loads (plf)	
Vert: 1-4=-54, 4-7=-54, 7-8=-54, 11-14=-20, 9-10=-20	
Concentrated Loads (lb)	
Vert: 6=-78(B) 13=1(B) 12=-27(B) 5=-28(B) 19=-3(B) 20=-54(B)	

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641053
3235278	T08	Monopitch	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:55 2022 Page 1

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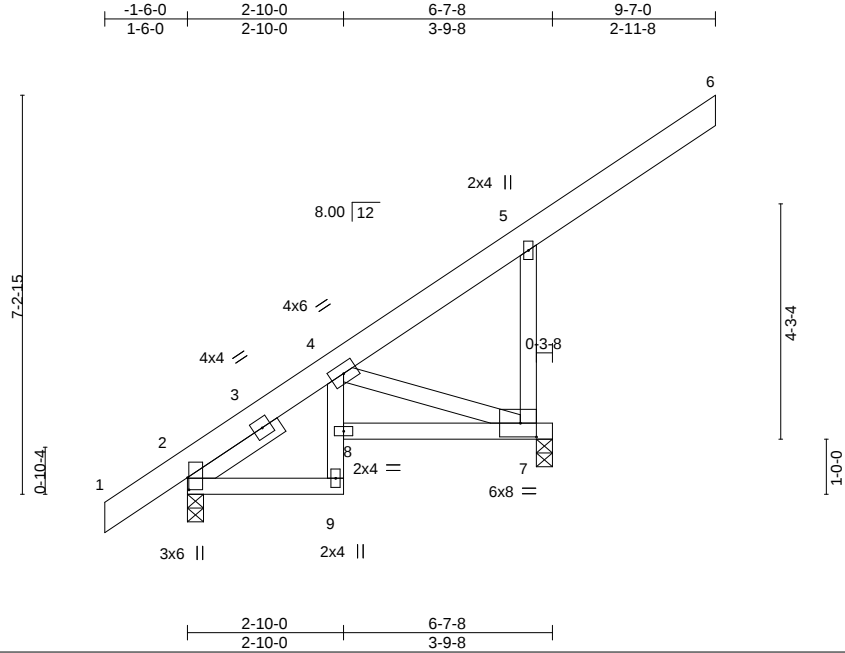


Plate Offsets (X,Y)--		[2:0-2-10,0-0-5], [7:0-3-8,0-3-0]													
LOADING	(psf)	SPACING-		CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.02	9	>999	240	MT20	244/190			
TCDL	7.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.02	7-8	>999	180					
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.02	7	n/a	n/a					
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP											
												Weight: 57 lb	FT = 20%		

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 4-9: 2x4 SP No.3
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-8

REACTIONS.

(size) 2=0-3-8, 7=0-3-8
 Max Horz 2=238(LC 12)
 Max Uplift 7=268(LC 12)
 Max Grav 2=269(LC 1), 7=459(LC 19)

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

TOP CHORD 2-4=-348/64, 4-5=-351/168, 5-7=-385/574
 BOT CHORD 7-8=-113/319
 WEBS 4-7=-338/119

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-7-0 zone;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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=268.

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.

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 Date:

August 29,2022

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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, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



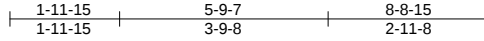
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.
3235278	T09	Jack-Closed	1	1	T28641054

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:56 2022 Page 1

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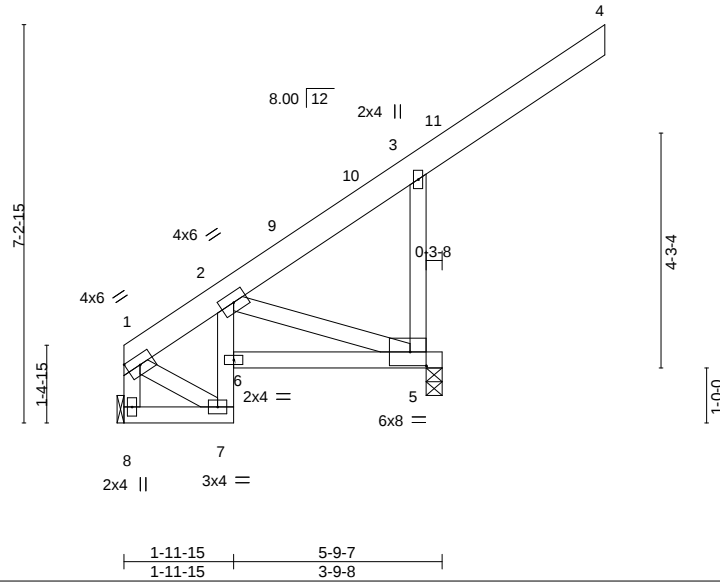


Plate Offsets (X,Y)--		[5:0-3-8,0-3-0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.31	Vert(LL) -0.01 5-6 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.24	Vert(CT) -0.01 5-6 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) -0.01 5 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 50 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=Mechanical, 5=0-3-8
Max Horz 8=167(LC 12)
Max Uplift 5=229(LC 9)
Max Grav 8=159(LC 21), 5=445(LC 19)

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

TOP CHORD 2-3=-309/136, 3-5=-378/479
BOT CHORD 7-8=-273/120

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 8-8-15 zone;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 100 lb uplift at joint(s) except (jt=lb) 5=229.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

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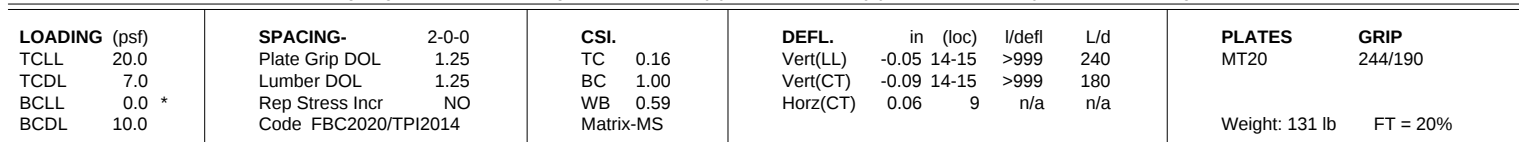
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Lake City, FL) Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:57 2022 Page 1
 ID:9B5QRtZPhUL0yMYqzVn3hhz6?b=8a0Dzc30fwN62xn?Uk0ef8KhKewBOB7uFApx4Zyk00e
 1-8-0 3-2-13 5-10-10 8-9-0 11-6-0 14-4-4 17-6-0
 1-8-0 1-6-13 2-7-13 2-10-6 2-9-0 2-10-4 3-1-12



BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 4-1-2 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 9-9-11 oc bracing.

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

TOP CHORD 1-2=-525/118, 2-3=-1985/586, 3-4=-1404/397, 4-5=-934/268, 5-6=-934/281,
6-7=-1205/291, 7-9=-969/235

BOT CHORD 1-16=-320/975, 15-16=-299/954, 3-15=-174/514, 14-15=-548/1719, 13-14=-311/1145,
12-13=-180/984, 6-12=-53/276, 9-10=-146/773

WEBS 2-16=-1150/390, 2-15=-497/1547, 3-14=-651/268, 4-14=-198/582, 4-13=-625/274,
5-13=-247/834, 6-13=-371/149, 10-12=-138/741, 7-10=-331/88

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDD=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=239, 9=171.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 170 lb down at 1-0-7, and 283 lb down and 156 lb up at 3-10-6, and 121 lb down and 61 lb up at 6-8-5 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=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-54. 5-9=-54. 16-17=-20. 12-15=-20. 11-21=-20

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29, 2022

Continued on page 2

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641055
3235278	T10	Roof Special Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:57 2022 Page 2
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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 25=-108(B) 26=-283(B) 27=-121(B)



Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641056
3235278	T11	ROOF SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:59 2022 Page 1

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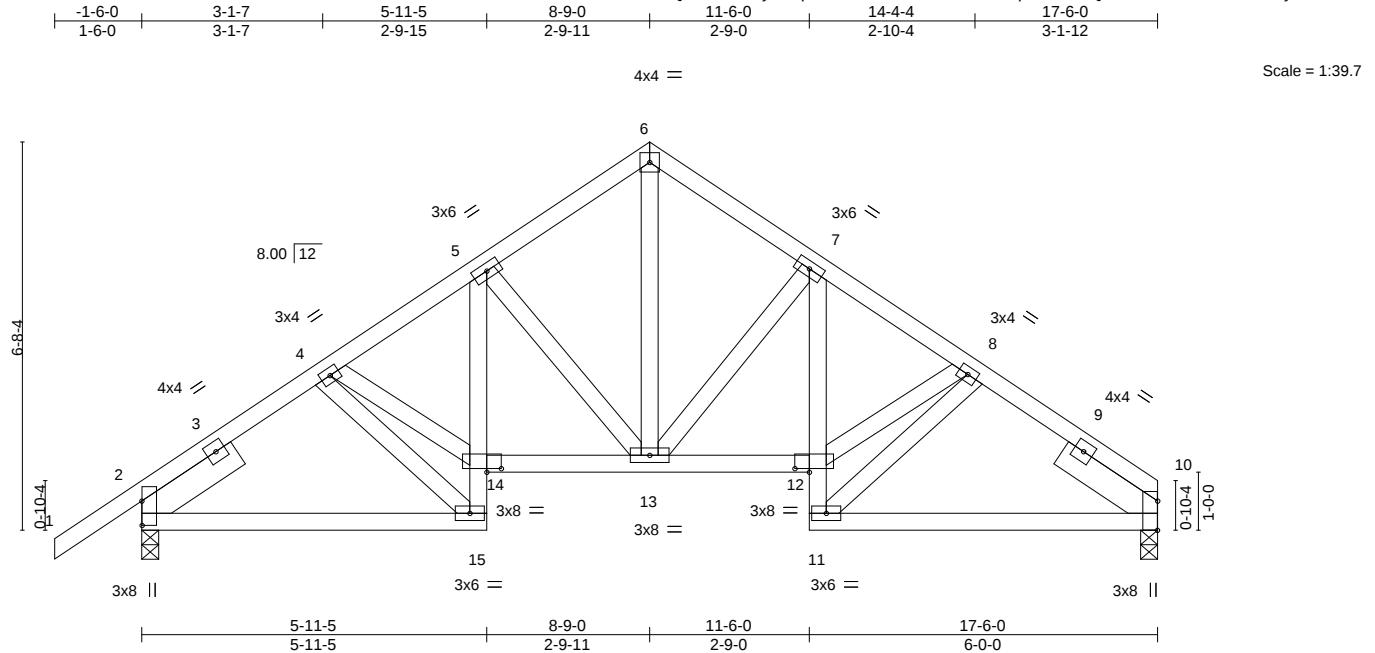


Plate Offsets (X,Y)-- [2:0-5-1,0-0-1], [10:0-6-1,Edge], [12:0-3-0,0-0-12], [14:0-3-0,0-0-12]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.19	Vert(LL)	-0.04 13-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.43	Vert(CT)	-0.07 13-14	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.28	Horz(CT)	0.05 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 121 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 5-15,7-11: 2x4 SP No.3
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

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) 10=0-3-8, 2=0-3-8
 Max Horz 2=143(LC 9)
 Max Uplift 10=-125(LC 13), 2=-158(LC 12)
 Max Grav 10=644(LC 1), 2=732(LC 1)

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

TOP CHORD 2-4=-779/170, 4-5=-888/203, 5-6=-689/186, 6-7=-687/192, 7-8=-891/203,
 8-10=-791/180
 BOT CHORD 2-15=-172/620, 14-15=-139/557, 13-14=-155/741, 12-13=-93/736, 11-12=-80/551,
 10-11=-104/616
 WEBS 4-15=-729/218, 4-14=-157/733, 5-13=-333/152, 6-13=-145/565, 7-13=-324/141,
 8-12=-101/726, 8-11=-721/135

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 8-9-0, Exterior(2R) 8-9-0 to 11-7-12, Interior(1) 11-7-12 to 17-6-0 zone; 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) except (jt=lb) 10=125, 2=158.

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Philip J. O'Regan PE No.58126
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 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

August 29,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

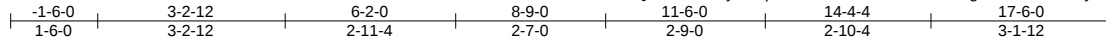


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641057
3235278	T12	ROOF SPECIAL	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:00 2022 Page 1
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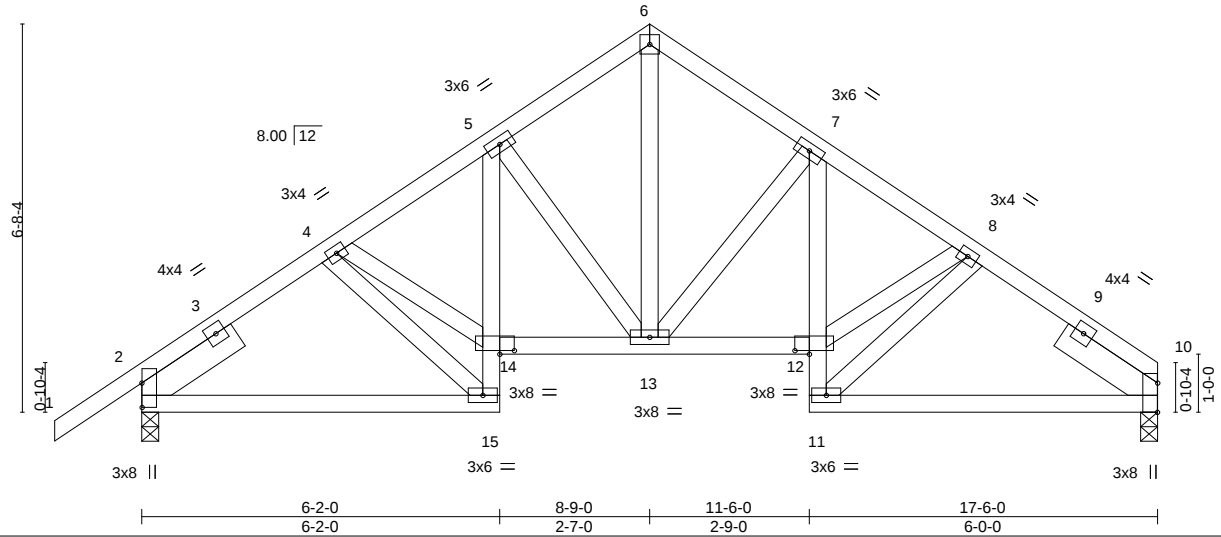


Plate Offsets (X,Y)-- [2:0-5-1,0-0-1], [10:0-6-1,Edge], [12:0-3-0,0-0-12], [14:0-3-0,0-0-12]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.19	Vert(LL)	-0.04 13-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.43	Vert(CT)	-0.07 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.28	Horz(CT)	0.05 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 121 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-15,7-11: 2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

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) 10=0-3-8, 2=0-3-8
Max Horz 2=143(LC 9)
Max Uplift 10=-125(LC 13), 2=-158(LC 12)
Max Grav 10=644(LC 1), 2=732(LC 1)

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

TOP CHORD 2-4=-779/170, 4-5=-870/199, 5-6=-685/188, 6-7=-687/191, 7-8=-891/202,
8-10=-791/179
BOT CHORD 2-15=-172/621, 14-15=-138/550, 13-14=-146/720, 12-13=-93/736, 11-12=-80/551,
10-11=-103/616
WEBS 4-15=-722/218, 4-14=-149/710, 5-13=-323/148, 6-13=-148/570, 7-13=-324/141,
8-12=-101/727, 8-11=-721/134

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 8-9-0, Exterior(2R) 8-9-0 to 11-7-12, Interior(1) 11-7-12 to 17-6-0 zone;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) except (jt=lb) 10=125, 2=158.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641058
3235278	T13	Half Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:02 2022 Page 2
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-VYb61J79TS?O8jfyGH_pMB1TBfh?3oDeOSWhmmyk00Z

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-6=-54, 6-12=-54, 24-25=-20, 21-23=-20, 15-20=-20, 13-14=-20

Concentrated Loads (lb)

Vert: 21=-194(B) 22=-531(B) 8=-21(B) 32=-194(B) 33=-194(B) 34=-153(B)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641060
3235278	T15	Hip	1	1	Job Reference (optional)	

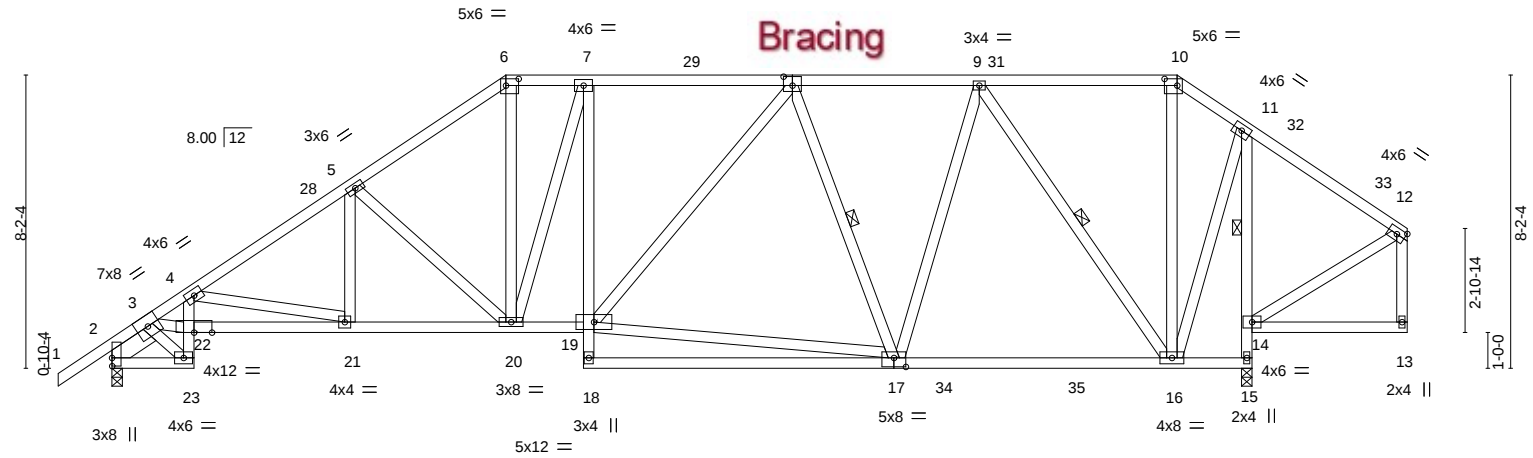
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:06 2022 Page 1

ID:9B5QRtZPhULoyMYqzVn3hhzz6?b-NJrdshAFxhVqdKzkV72IW1CB2G?U?dwDJ4UwXyk00V

1-6-0	1-0-0	2-3-8	6-7-12	11-0-0	13-2-0	19-0-0	24-2-10	29-8-15	31-10-0	36-2-0
1-6-0	1-0-0	1-3-8	4-4-4	4-4-4	2-2-0	5-10-0	5-2-10	5-6-5	2-1-2	4-4-0

Scale: 3/16"=1'



2-3-8	6-7-12	11-0-0	13-2-0	21-10-0	29-8-15	31-10-0	36-2-0
2-3-8	4-4-4	4-4-4	2-2-0	8-8-0	7-10-15	2-1-2	4-4-0
Plate Offsets (X,Y)-- [2:0-2-12,0-0-1], [6:0-4-4,0-2-4], [8:0-3-0,0-3-0], [10:0-4-4,0-2-4], [17:0-4-0,0-3-0]							

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29	Vert(LL)	-0.15 17-18	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.92	Vert(CT)	-0.33 17-18	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(CT)	0.13 15	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 281 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-12 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
4-23,7-18,11-15: 2x4 SP No.3	1 Row at midpt 11-14
WEBS 2x4 SP No.3	1 Row at midpt 8-17, 9-16
SLIDER Left 2x6 SP No.2 1-3-8	

REACTIONS. (size) 2=0-3-8, 15=0-3-8
Max Horz 2=200(LC 12)
Max Uplift 2=-299(LC 12), 15=-305(LC 13)
Max Grav 2=1315(LC 25), 15=1660(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-536/122, 3-4=-2747/746, 4-5=-2053/496, 5-6=-1622/428, 6-7=-1311/394,
7-8=-1390/406, 8-9=-1090/264, 9-10=-282/134, 10-11=-344/150
BOT CHORD 2-23=-344/973, 22-23=-325/963, 4-22=-130/474, 21-22=-837/2531, 20-21=-479/1681,
19-20=-349/1391, 16-17=-243/895, 14-15=-1706/309, 11-14=-1542/286
WEBS 3-23=-1152/404, 3-22=-706/2159, 4-21=-913/366, 5-21=-54/382, 5-20=-590/228,
6-20=-167/757, 7-20=-344/190, 17-19=-323/1058, 8-19=-105/292, 8-17=-503/220,
9-17=-127/683, 9-16=-1097/273, 11-16=-214/1184

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-1-12, Interior(1) 2-1-12 to 11-0-0, Exterior(2R) 11-0-0 to 16-1-6, Interior(1) 16-1-6 to 29-8-15, Exterior(2R) 29-8-15 to 34-10-5, Interior(1) 34-10-5 to 36-0-4 zone;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 100 lb uplift at joint(s) except (jt=lb) 2=299, 15=305.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641062
3235278	T17	Roof Special Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:10 2022 Page 2
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-G447i2DAbw0G5xHVky7hgtMq3uUExUlpEhS72lyk00R

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 19=5(B)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641063
3235278	T18	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:11 2022 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-kHeWwOEoMD86j5rhlgewD5v_pHpWgvJyTLCgalyk00Q

1-6-0	4-4-0	8-2-0	14-9-12	20-4-0	27-0-15	33-8-0	39-6-0
1-6-0	4-4-0	3-10-0	6-7-12	5-6-4	6-8-14	6-7-2	5-10-0

Scale = 1:77.8

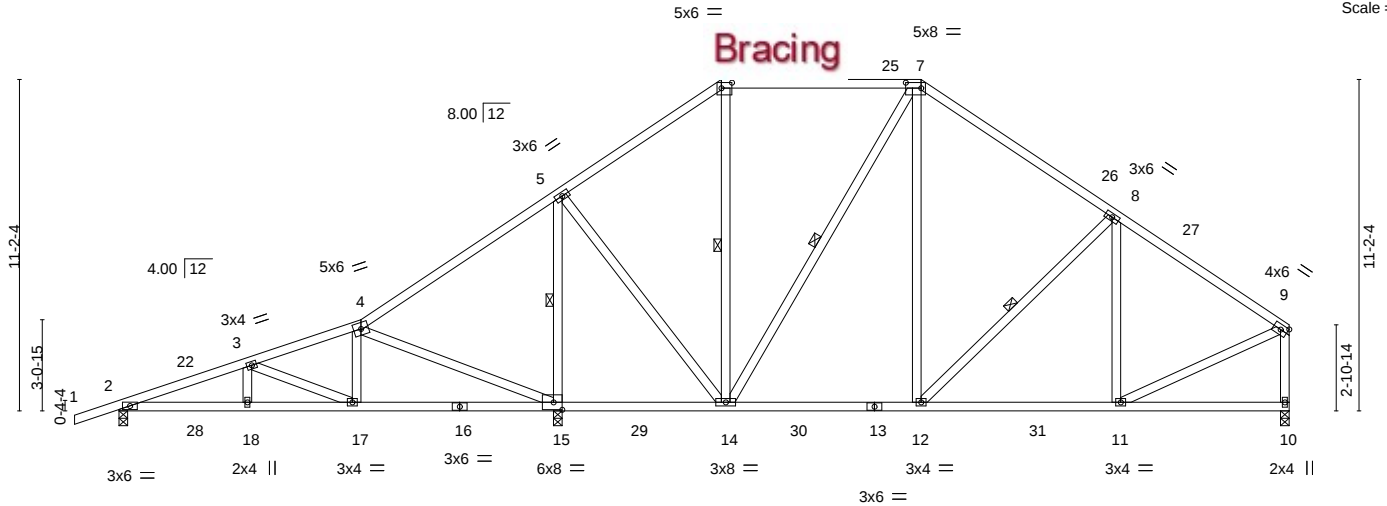


Plate Offsets (X,Y)-- [6:0-4-4,0-2-4], [7:0-6-4,0-2-4], [15:0-3-8,0-3-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.55	Vert(LL)	0.11 15-17	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.48	Vert(CT)	-0.11 12-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.02 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 258 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 7-14: 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 6-0-0 oc bracing.
 WEBS 1 Row at midpt 5-15, 6-14, 7-14, 8-12

REACTIONS.

(size) 2=0-3-8, 15=0-3-8, 10=0-3-8
 Max Horz 2=252(LC 9)
 Max Uplift 2=-237(LC 8), 15=-424(LC 12), 10=-188(LC 13)
 Max Grav 2=470(LC 25), 15=1939(LC 2), 10=958(LC 20)

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

TOP CHORD 2-3=-739/584, 3-4=-334/255, 4-5=-445/504, 5-6=-411/194, 6-7=-272/183, 7-8=-696/237, 8-9=-875/198, 9-10=-876/201
 BOT CHORD 2-18=-616/687, 17-18=-616/687, 15-17=-224/289, 14-15=-343/434, 12-14=0/513, 11-12=-100/670
 WEBS 3-17=-425/398, 4-17=-450/356, 4-15=-662/689, 5-15=-1424/722, 5-14=-359/938, 7-14=-498/259, 7-12=-108/511, 8-12=-317/202, 9-11=-97/708

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-5-6, Interior(1) 2-5-6 to 20-4-0, Exterior(2R) 20-4-0 to 25-11-1, Interior(1) 25-11-1 to 27-0-15, Exterior(2R) 27-0-15 to 32-7-15, Interior(1) 32-7-15 to 39-4-4 zone; 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 100 lb uplift at joint(s) except (it=lb) 2=237, 15=424, 10=188.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

August 29,2022

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641064
3235278	T19	Piggyback Base	5	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:13 2022 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-gfmGK4F2rOqzP?4Q5gOIW_Jm5Vx8puFwfhndyk000

1-6-0	4-4-0	8-2-0	14-9-12	20-4-0	27-0-14	33-8-0	40-4-0
1-6-0	4-4-0	3-10-0	6-7-12	5-6-4	6-8-14	6-7-2	6-8-0

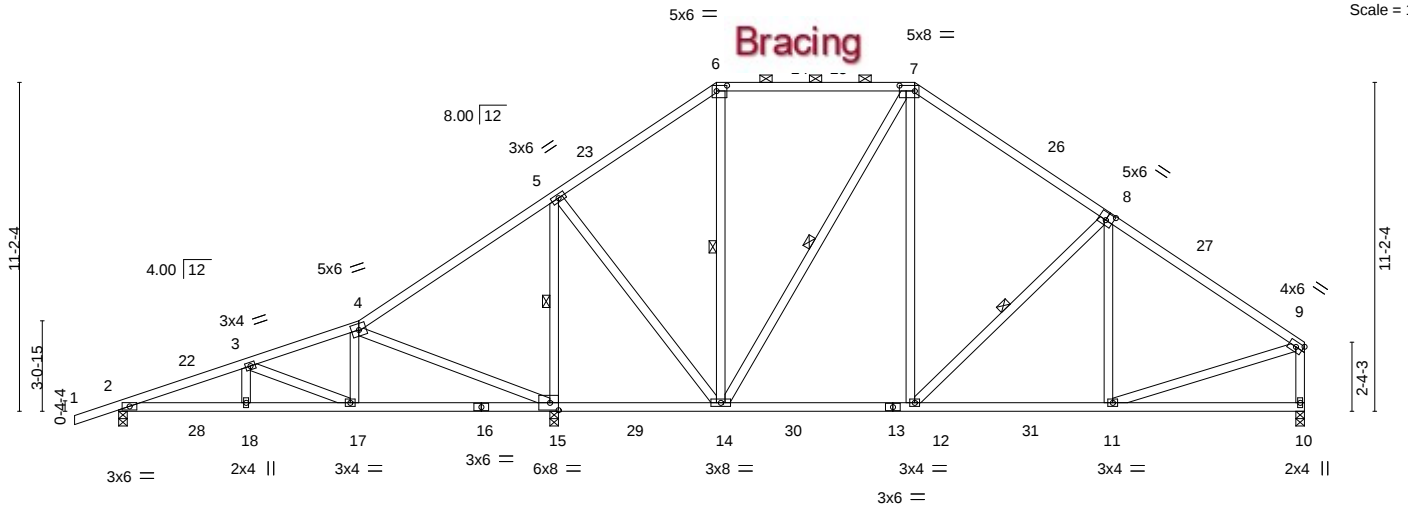


Plate Offsets (X,Y)--	[6:0-4-4,0-2-4],	[7:0-6-4,0-2-4],	[8:0-3-0,0-3-0],	[15:0-3-8,0-3-0]
-----------------------	------------------	------------------	------------------	------------------

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.58	Vert(LL)	0.11 15-17	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.49	Vert(CT)	-0.12 12-14	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.67	Horz(CT)	0.02 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 261 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-4-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 7-14: 2x4 SP No.2	WEBS 1 Row at midpt 5-15, 6-14, 7-14, 8-12

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 10=0-3-8
Max Horz 2=254(LC 9)
Max Uplift 2=-239(LC 8), 15=-391(LC 12), 10=-177(LC 13)
Max Grav 2=464(LC 25), 15=1981(LC 2), 10=995(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-722/585, 3-4=-319/255, 4-5=-438/523, 5-6=-424/183, 6-7=-281/173, 7-8=-733/220, 8-9=-1004/198, 9-10=-895/192
BOT CHORD 2-18=-598/671, 17-18=-598/671, 15-17=-207/278, 14-15=-359/443, 12-14=0/543, 11-12=-87/763
WEBS 3-17=-426/397, 4-17=-450/356, 4-15=-657/690, 5-15=-1470/703, 5-14=-352/976, 7-14=-539/252, 7-12=-117/573, 8-12=-412/213, 9-11=-66/741

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-6-6, Interior(1) 2-6-6 to 20-4-0, Exterior(2R) 20-4-0 to 24-4-6, Interior(1) 24-4-6 to 27-0-14, Exterior(2R) 27-0-14 to 31-1-5, Interior(1) 31-1-5 to 40-2-4 zone; 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 100 lb uplift at joint(s) except (it=lb) 2=239, 15=391, 10=177.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641066
3235278	T21	Piggyback Base Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:16 2022 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-4ERPz6lxAmmpQskf5DE5w8cs?IXxLA3hcdvRFyyk00L

1-6-0	4-4-0	8-2-0	14-11-8	20-4-0	27-0-14	32-0-0	36-0-0	40-4-0
1-6-0	4-4-0	3-10-0	6-9-8	5-4-8	6-8-14	4-11-2	4-0-0	4-4-0

Scale = 1.74.5

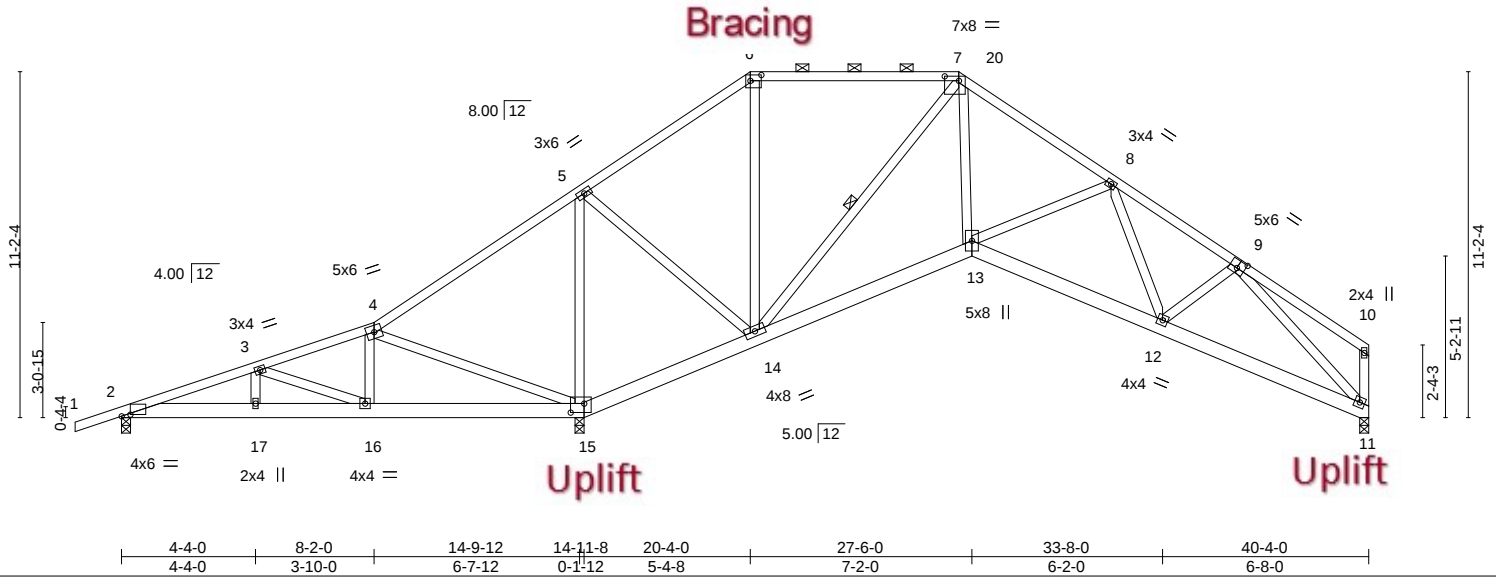


Plate Offsets (X,Y)--		[2:0-3-7,0-0-11], [6:0-4-4,0-2-4], [7:0-5-8,0-1-12], [9:0-3-0,0-3-0], [15:0-5-4,0-3-8]
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 7.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	NO
BCDL 10.0	Code	FBC2020/TPI2014
	CSI.	
	TC 0.45	
	BC 0.47	
	WB 0.70	
	Matrix-MS	
	DEFL.	
	in (loc)	l/defl
	Vert(LL) -0.11 12-13	>999
	Vert(CT) -0.20 12-13	>999
	Horz(CT) 0.16 11	n/a
	PLATES	GRIP
	MT20	244/190
	Weight: 555 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 15=0-3-8, 11=0-3-8
Max Horz 2=-675(LC 9)
Max Uplift 2=-329(LC 20), 15=-718(LC 8), 11=-620(LC 9)
Max Grav 2=17(LC 18), 15=3531(LC 1), 11=2644(LC 20)

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

TOP CHORD 2-3=0/1291, 3-4=0/1518, 4-5=-127/1808, 5-6=-307/244, 7-8=-3127/493, 8-9=-4052/992, 9-10=-370/211, 10-11=-437/176
BOT CHORD 2-17=-1216/582, 16-17=-1216/582, 15-16=-1470/631, 14-15=-1616/875, 13-14=0/2341, 12-13=-230/3526, 11-12=-537/3118
WEBS 3-16=-459/245, 4-16=-158/358, 4-15=-198/318, 5-15=-2756/400, 5-14=-153/2105, 7-14=-3144/368, 7-13=-416/3631, 8-13=-1296/698, 8-12=-465/668, 9-12=-26/662, 9-11=-4013/748

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 0-9-0 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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left 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.
- Bearing at joint(s) 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) except (jt=lb) 2=329, 15=718, 11=620.
- Girder carries tie-in span(s): 7-0-0 from 27-6-0 to 40-4-0; 7-0-0 from 27-6-0 to 40-4-0
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641066
3235278	T21	Piggyback Base Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:17 2022 Page 2
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-ZR?nARJZx3uGR0JrflwKTM91lisA4dJrrHf_oOyk00K

NOTES-
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 675 lb down and 210 lb up at 27-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

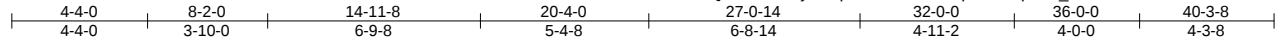
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 6-7=-54, 7-20=-54, 10-20=-146(F=-92), 2-15=-20, 13-15=-20, 11-13=-113(F=-92)
Concentrated Loads (lb)
Vert: 13=-675(F)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641067
3235278	T22	Piggyback Base Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:19 2022 Page 1

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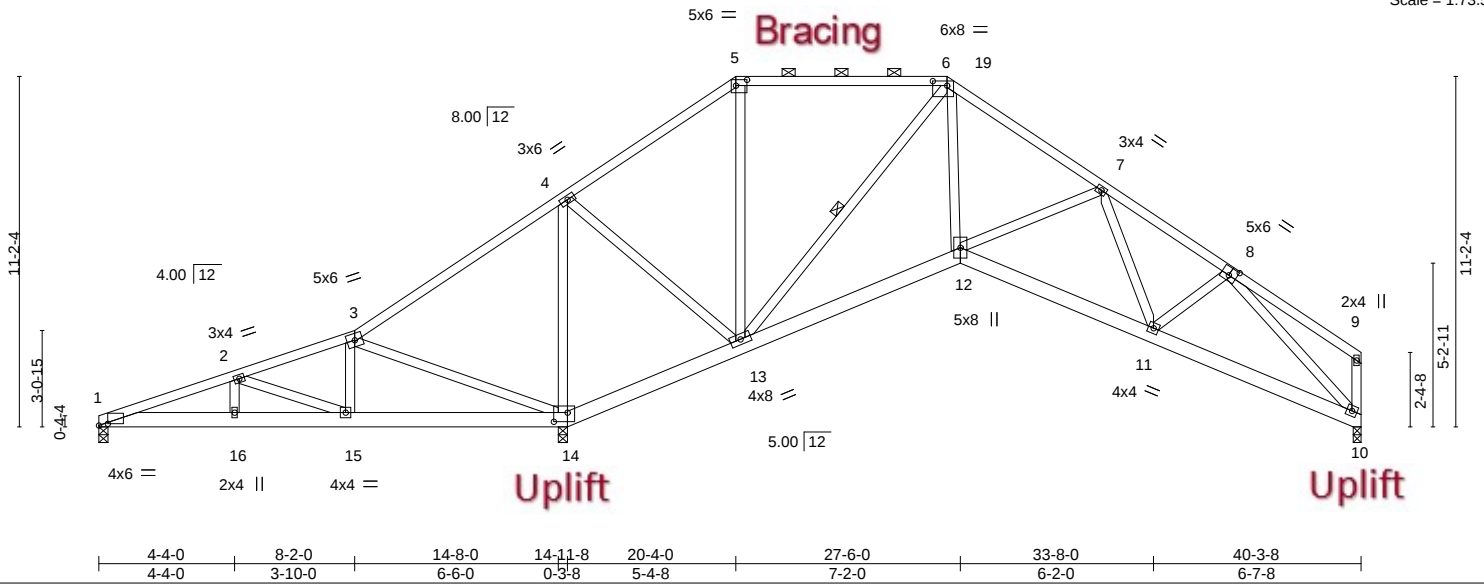


Plate Offsets (X,Y)-- [1:0-3-7,0-0-11], [5:0-4-4,0-2-4], [6:0-5-8,0-1-12], [8:0-3-0,0-3-0], [14:0-5-4,0-3-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.45	Vert(LL)	-0.11 11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.46	Vert(CT)	-0.19 11-12	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.68	Horz(CT)	0.16 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 550 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

REACTIONS.

(size) 1=0-3-8, 14=0-3-8, 10=0-3-0
Max Horz 1=-687(LC 4)
Max Uplift 1=-336(LC 20), 14=-706(LC 8), 10=-609(LC 9)
Max Grav 14=3475(LC 1), 10=2610(LC 20)

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

TOP CHORD 1-2=0/1234, 2-3=0/1467, 3-4=-122/1778, 4-5=-303/241, 6-7=-3036/469, 7-8=-3966/969,
8-9=-363/208, 9-10=-430/173
BOT CHORD 1-16=-1163/565, 15-16=-1163/565, 14-15=-1440/618, 13-14=-1596/872, 12-13=0/2270,
11-12=-213/3448, 10-11=-520/3046
WEBS 2-15=-488/270, 3-15=-164/360, 3-14=-207/315, 4-14=-2702/388, 4-13=-145/2057,
6-13=-3046/344, 6-12=-384/3502, 7-12=-1284/691, 7-11=-454/650, 8-11=-23/655,
8-10=-3935/729

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 0-9-0 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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left 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.
- Bearing at joint(s) 10 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) except (jt=lb) 1=336, 14=706, 10=609.
- Girder carries tie-in span(s): 7-0-0 from 27-6-0 to 40-3-8; 7-0-0 from 27-6-0 to 40-3-8
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641067
3235278	T22	Piggyback Base Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Fri Aug 26 10:06:19 2022
Page 2
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NOTES-

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 601 lb down and 189 lb up at 27-6-0 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=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-54, 3-5=-54, 5-6=-54, 6-19=-54, 9-19=-147(F=-93), 1-14=-20, 12-14=-20, 10-12=-113(F=-93)

Concentrated Loads (lb)

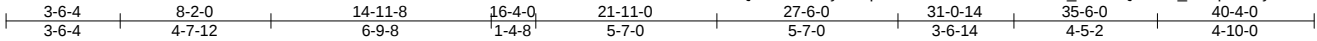
Vert: 12=-601(B)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641068
3235278	T23	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:20 2022 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-z0hvoTLSE_GrlU1QK3l14_nWqwtHHyHfXFeOjyk00H



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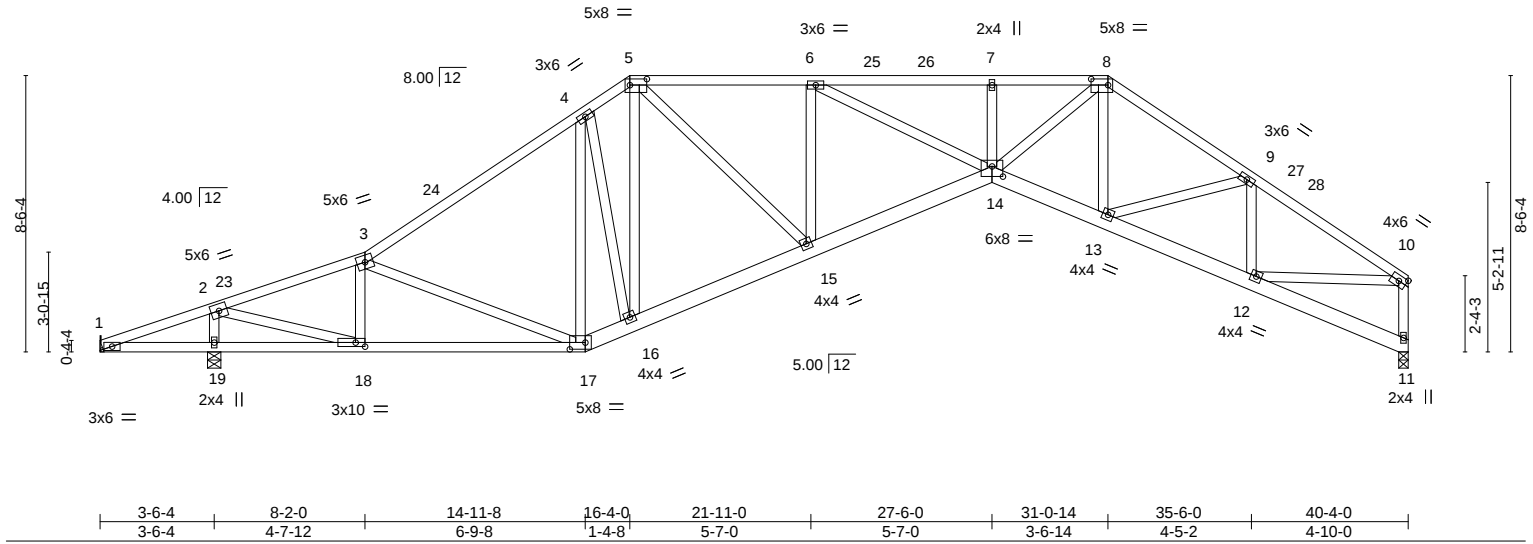


Plate Offsets (X,Y)--		[5:0-6-4,0-2-4], [8:0-6-4,0-2-4], [14:0-4-0,0-3-12], [17:0-5-12,0-2-8], [18:0-3-8,0-1-8]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.24	14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.45	14-15	>979	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.30	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 269 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2 *Except*
 1-17: 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 2-18: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 5-1-10 oc bracing.

REACTIONS.

(size) 1=Mechanical, 11=0-3-8, 19=0-4-15
 Max Horz 1=186(LC 9)
 Max Uplift 1=-359(LC 1), 11=-267(LC 13), 19=-483(LC 12)
 Max Grav 1=103(LC 12), 11=1310(LC 1), 19=2024(LC 1)

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

TOP CHORD 1-2=-425/1305, 2-3=-1567/423, 3-4=-1700/528, 4-5=-1730/677, 5-6=-2262/745,
 6-7=-3661/1075, 7-8=-3661/1075, 8-9=-2541/755, 9-10=-2058/597, 10-11=-1266/390
 BOT CHORD 1-19=-1197/319, 18-19=-1197/319, 17-18=-428/1477, 16-17=-394/1475, 15-16=-351/1495,
 14-15=-589/2457, 13-14=-490/2208, 12-13=-488/1821
 WEBS 2-19=-1880/588, 2-18=-760/2737, 3-18=-626/259, 4-17=-469/160, 4-16=-128/274,
 5-15=-303/1243, 6-15=-1073/330, 6-14=-372/1576, 8-14=-536/2086, 9-13=-166/467,
 10-12=-426/1620, 9-12=-657/234

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-0-6, Interior(1) 4-0-6 to 16-4-0, Exterior(2R) 16-4-0 to 21-11-0, Interior(1) 21-11-0 to 31-0-14, Exterior(2R) 31-0-14 to 36-9-6, Interior(1) 36-9-6 to 40-2-4 zone; 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.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 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) except (jt=lb) 1=359, 11=267, 19=483.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

August 29,2022

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641069
3235278	T24	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc.
Fri Aug 26 10:06:22 2022
Page 1
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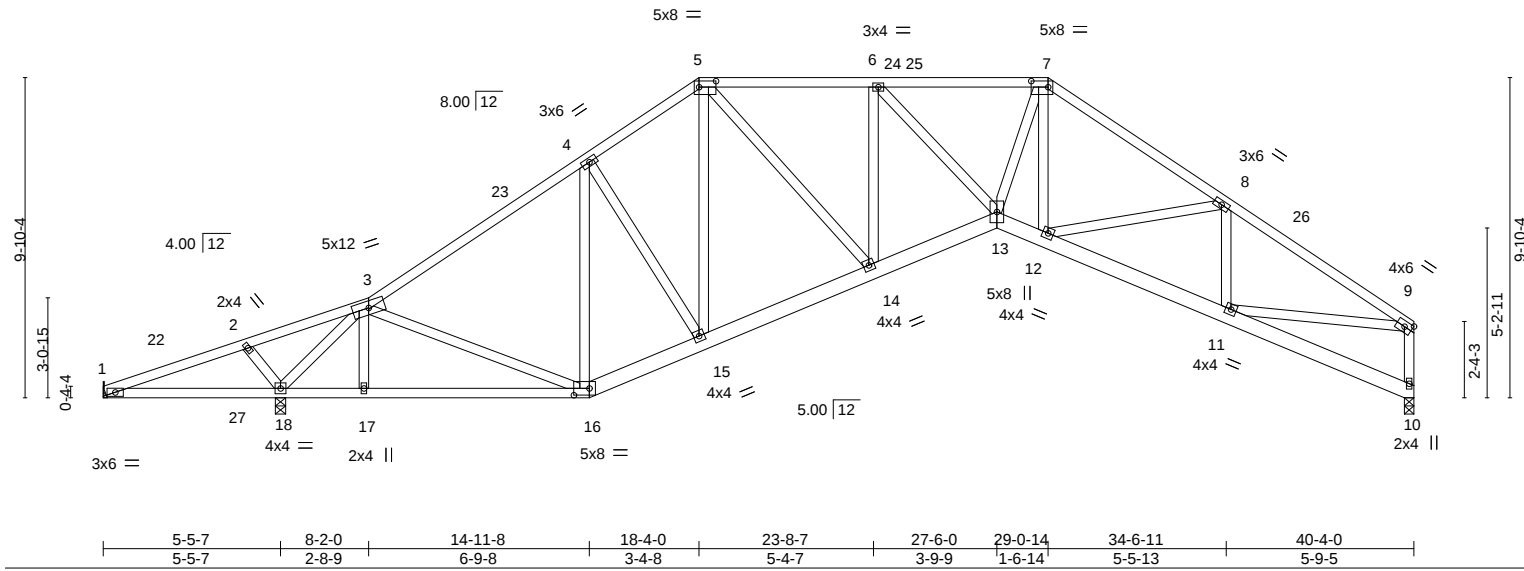


Plate Offsets (X,Y)--		[5:0-6-4,0-2-4], [7:0-6-4,0-2-4], [16:0-5-12,0-2-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 20.0	2-0-0	TC 0.57	in (loc) l/defl L/d
TCDL 7.0	Plate Grip DOL 1.25	BC 0.44	Vert(LL) -0.14 13 >999 240
BCLL 0.0 *	Lumber DOL 1.25	WB 0.65	Vert(CT) -0.25 13 >999 180
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.19 10 n/a n/a
	Code FBC2020/TPI2014		
		PLATES	
		GRIP	
		MT20 244/190	
		Weight: 271 lb FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-5-4 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 1-18.
1-16: 2x4 SP No.2	
WEBS 2x4 SP No.3	

REACTIONS. (size) 1=Mechanical, 10=0-3-8, 18=0-3-13
Max Horz 1=215(LC 9)
Max Uplift 1=-176(LC 19), 10=-253(LC 13), 18=-444(LC 12)
Max Grav 1=49(LC 12), 10=1233(LC 1), 18=1871(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-246/833, 2-3=-273/977, 3-4=-1379/432, 4-5=-1477/555, 5-6=-1800/634, 6-7=-2251/700, 7-8=-2374/696, 8-9=-2114/606, 9-10=-1189/373
BOT CHORD 1-18=-746/165, 17-18=-195/604, 16-17=-197/600, 15-16=-307/1174, 14-15=-261/1278, 13-14=-420/1951, 12-13=-400/2021, 11-12=-487/1864
WEBS 2-18=-260/162, 3-18=-2152/541, 3-16=-140/512, 4-16=-555/201, 4-15=-71/280, 6-14=-832/250, 6-13=-107/676, 7-13=-228/1022, 8-12=-161/313, 8-11=-516/204, 9-11=-421/1646, 5-14=-221/945

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-0-6, Interior(1) 4-0-6 to 18-4-0, Exterior(2R) 18-4-0 to 24-0-7, Interior(1) 24-0-7 to 29-0-14, Exterior(2R) 29-0-14 to 34-6-11, Interior(1) 34-6-11 to 40-2-4 zone; 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.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 10 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) except (jt=lb) 1=176, 10=253, 18=444.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

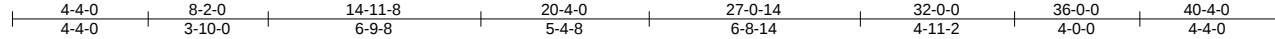
August 29,2022

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641070
3235278	T25	Hip	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:24 2022 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-rnwQerOylDmGn5LBZuNzFqx7yX9jDn5tStrsXVyk00D



Scale = 1:73.6

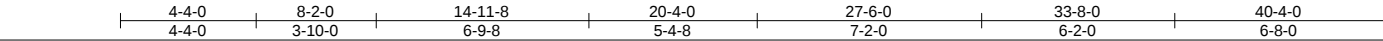
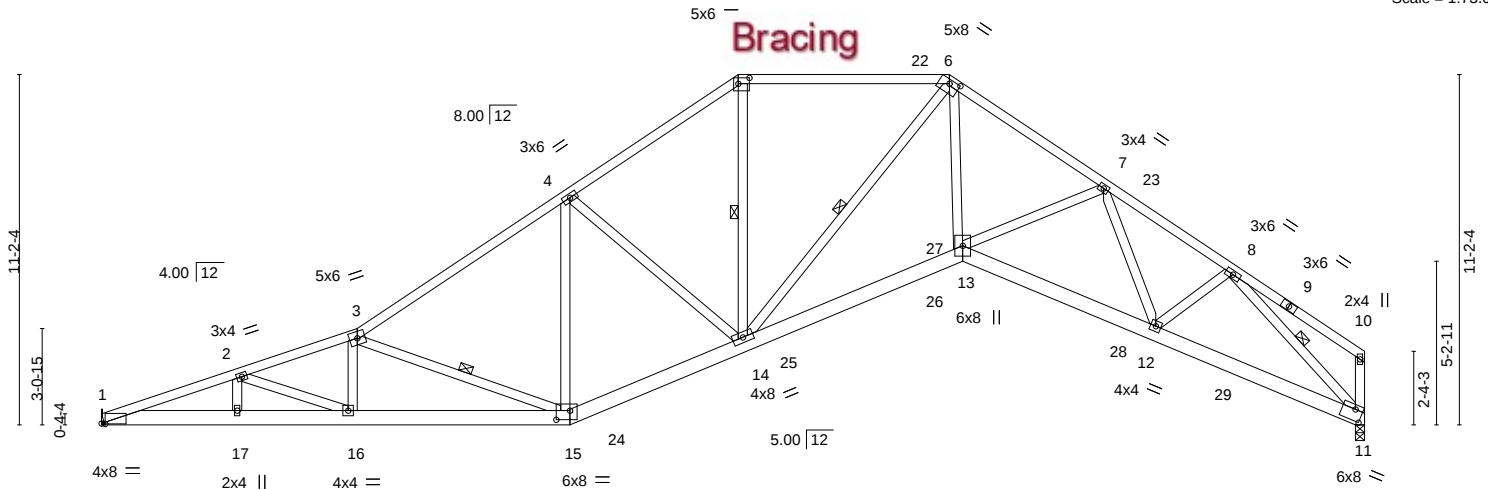


Plate Offsets (X,Y)-- [1:0-1-7,0-0-3], [5:0-4-4,0-2-4], [6:0-4-0,0-1-9], [11:0-3-0,0-4-4], [15:0-5-4,0-3-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.84	Vert(LL) 0.36	15-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.86	Vert(CT) -0.48	15-16	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.31	11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 275 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-10-6 oc bracing.
WEBS 1 Row at midpt 3-15, 5-14, 6-14, 8-11

REACTIONS.

(size) 1=Mechanical, 11=0-3-8
Max Horz 1=243(LC 9)
Max Uplift 1=436(LC 8), 11=381(LC 8)
Max Grav 1=1485(LC 1), 11=1485(LC 1)

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

TOP CHORD 1-2=-4113/3462, 2-3=-3808/3197, 3-4=-2452/1911, 4-5=-2212/1710, 5-6=-1773/1490,
6-7=-3021/2083, 7-8=-2671/1869
BOT CHORD 1-17=-3350/3881, 16-17=-3350/3881, 15-16=-3048/3581, 14-15=-1642/2160,
13-14=-1412/2504, 12-13=-1535/2560, 11-12=-1212/1904
WEBS 2-16=-316/319, 3-16=-442/334, 3-15=-1733/1636, 4-14=-311/443, 5-14=-769/868,
6-14=-869/373, 6-13=-1270/2005, 7-12=-525/259, 8-12=-365/566, 8-11=-2601/1699

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-12 to 4-4-0, Interior(1) 4-4-0 to 20-4-0, Exterior(2R) 20-4-0 to 26-0-7, Interior(1) 26-0-7 to 27-0-14, Exterior(2R) 27-0-14 to 32-9-6, Interior(1) 32-9-6 to 40-2-4 zone; 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.
- 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.
- Bearing at joint(s) 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) except (jt=lb) 1=436, 11=381.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component

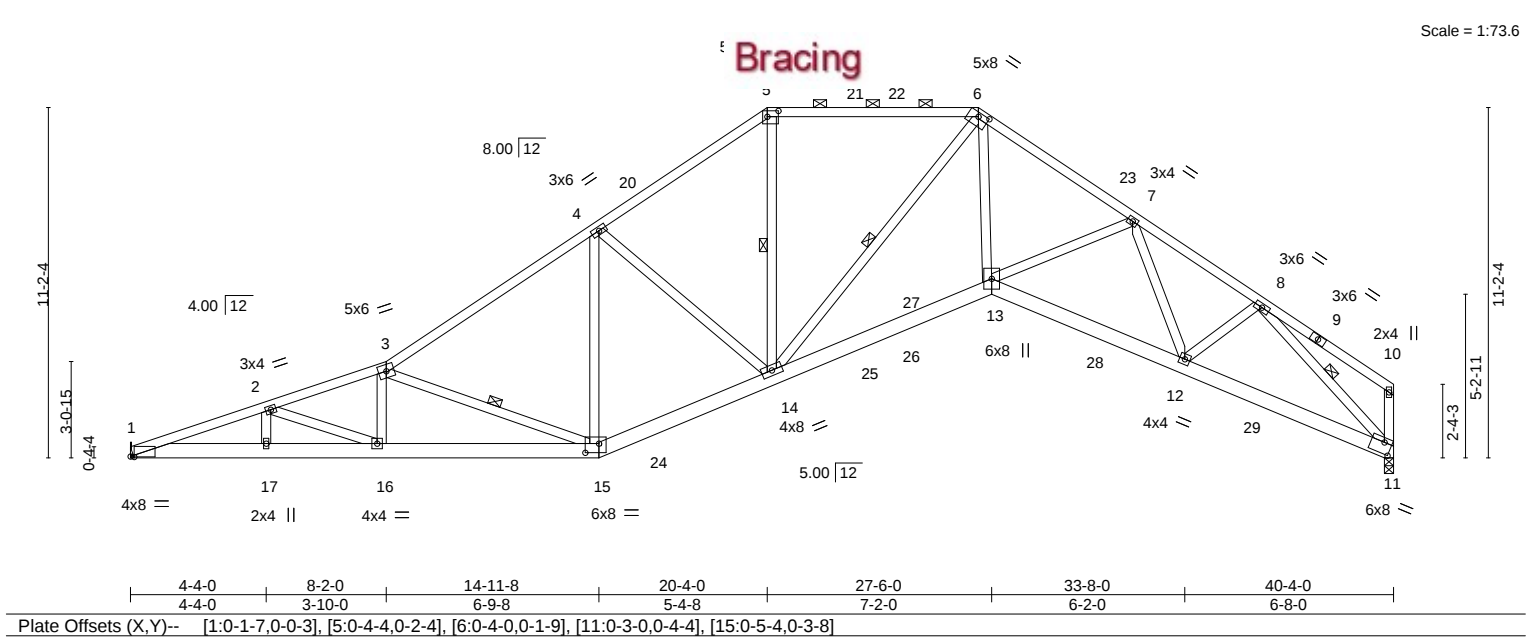
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641071
3235278	T26	Piggyback Base	3	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),		Lake City, FL - 32055,		8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:25 2022 Page 1			
				ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-KzUosBP3Xv7PFwN7cuCn2UHgxVyyEL0hXbP4xyk00C			
4-4-0	8-2-0	14-11-8	20-4-0	27-0-14	32-0-0	36-0-0	40-4-0
4-4-0	3-10-0	6-9-8	5-4-8	6-8-14	4-11-2	4-0-0	4-4-0



LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.90	Vert(LL)	0.36	15-16	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.48	15-16	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.31	11	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 275 lb	FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 5-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 3-10-6 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-15, 5-14, 6-14, 8-11

REACTIONS.	(size) 1=Mechanical, 11=0-3-8
	Max Horz 1=243(LC 9)
	Max Uplift 1=-436(LC 8), 11=-381(LC 8)
	Max Grav 1=1485(LC 1), 11=1485(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-4113/3464, 2-3=-3808/3188, 3-4=-2452/1904, 4-5=-2212/1709, 5-6=-1773/1488, 6-7=-3021/2091, 7-8=-2671/1871
BOT CHORD	1-17=-3346/3881, 16-17=-3346/3881, 15-16=-3043/3581, 14-15=-1639/2160, 13-14=-1422/2504, 12-13=-1531/2560, 11-12=-1208/1904
WEBS	2-16=-316/319, 3-16=-442/334, 3-15=-1733/1637, 4-14=-311/427, 5-14=-778/868, 6-14=-869/366, 6-13=-1277/2005, 7-12=-525/259, 8-12=-364/566, 8-11=-2601/1696

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-12 to 4-4-0, Interior(1) 4-4-0 to 20-4-0, Exterior(2R) 20-4-0 to 24-4-6, Interior(1) 24-4-6 to 27-0-14, Exterior(2R) 27-0-14 to 31-1-5, Interior(1) 31-1-5 to 40-2-4 zone; 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.
 - 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.
 - Bearing at joint(s) 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) except (jt=lb) 1=436, 11=381.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601	MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641072
3235278	T27	Piggyback Base	3	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:27 2022 Page 1

ID:9B5QRiZPhUL0yMYqzVn3hhzz6?b-GMcZGsQra89reZ4mE1wgtTzJrkJ1Q4dJ8r4W8pyk00A

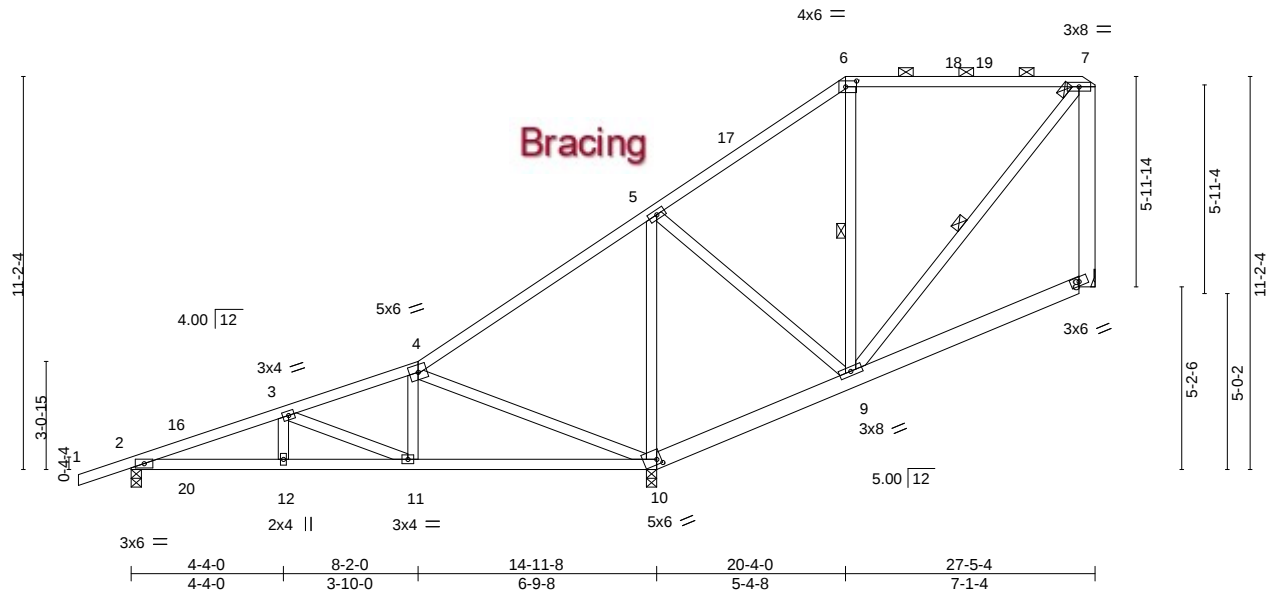


Plate Offsets (X,Y)-- [6:0-3-12,0-2-0], [10:0-1-8,0-1-12]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.57	Vert(LL)	0.13 10-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.37	Vert(CT)	-0.13 10-11	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.91	Horz(CT)	-0.01 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 184 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
8-10: 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
7-8: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-9, 7-9

REACTIONS.

(size) 2=0-3-8, 10=0-3-8, 8=Mechanical
Max Horz 2=388(LC 12)
Max Uplift 2=-206(LC 8), 10=-373(LC 9), 8=-69(LC 9)
Max Grav 2=448(LC 1), 10=1426(LC 1), 8=293(LC 24)

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

TOP CHORD 2-3=-654/393, 3-4=-289/70, 4-5=-594/531
BOT CHORD 2-12=-716/601, 11-12=-716/601, 10-11=-328/221, 9-10=-424/327
WEBS 3-11=-395/393, 4-11=-461/355, 4-10=-618/644, 5-10=-912/573, 5-9=-262/483, 6-9=-311/251

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 20-4-0, Exterior(2R) 20-4-0 to 23-4-0, Interior(1) 23-4-0 to 27-2-8 zone; 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=206, 10=373.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



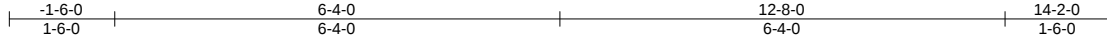
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641073
3235278	T28	Common	3	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:29 2022 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-CkjJhYS56IPZtsD9MSz8yuf6KY??uBicc9ZdDiyk008



Scale = 1:32.8

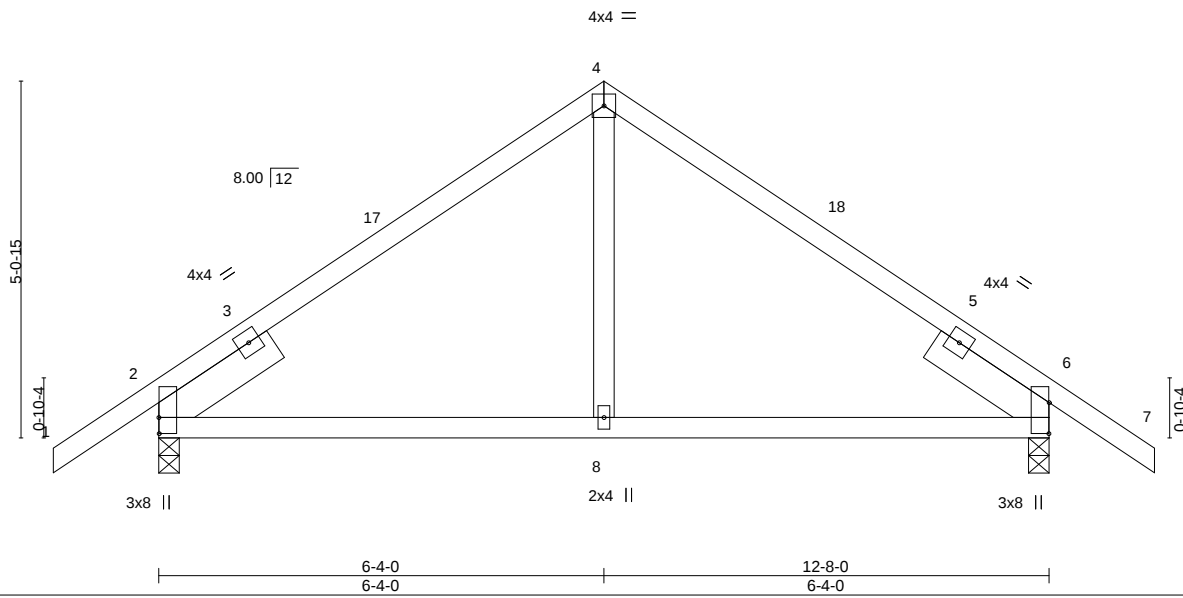


Plate Offsets (X,Y)--		[2:0-2-12,0-0-1], [6:0-5-5,0-0-1]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.35		Vert(LL)	0.05 8-11	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.34		Vert(CT)	-0.07 8-11	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.10		Horz(CT)	0.02 2	n/a	n/a		
BCDL 10.0		Code	FBC2020/TPI2014	Matrix-MS						Weight: 63 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
 Max Horz 2=-115(LC 10)
 Max Uplift 2=-123(LC 12), 6=-123(LC 13)
 Max Grav 2=550(LC 1), 6=550(LC 1)

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

TOP CHORD 2-4=-419/161, 4-6=-419/161
 BOT CHORD 2-8=-33/346, 6-8=-33/346
 WEBS 4-8=-10/262

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-4-0, Exterior(2R) 6-4-0 to 9-4-0, Interior(1) 9-4-0 to 14-2-0 zone; 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) except (jt=lb) 2=123, 6=123.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

August 29,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641074
3235278	T28G	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:30 2022 Page 1

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Scale: 3/8"=1'

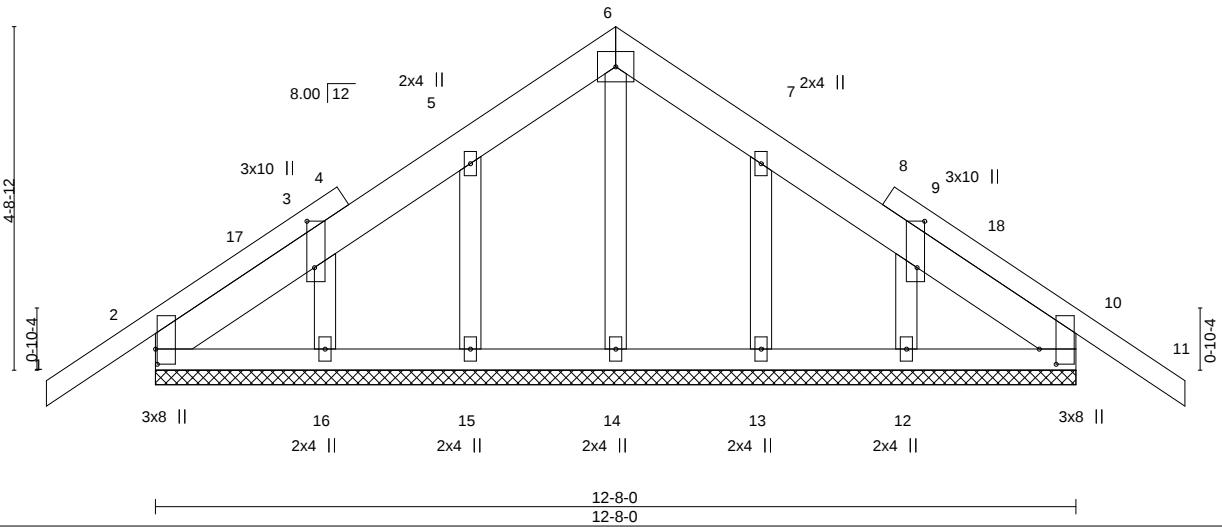


Plate Offsets (X,Y)-- [2:0-2-8,0-0-5], [3:0-7-11,0-1-4], [9:0-7-11,0-1-4], [10:0-2-8,0-2-13]

LOADING (psf)	SPACING-	CSL.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.12	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.04	Vert(CT)	-0.01	11	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S						Weight: 87 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-4,8-11: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.

All bearings 12-8-0.
(lb) - Max Horz 2=-105(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 6-4-0, Corner(3R) 6-4-0 to 9-4-0, Exterior(2N) 9-4-0 to 14-2-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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, 10, 15, 16, 13, 12.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



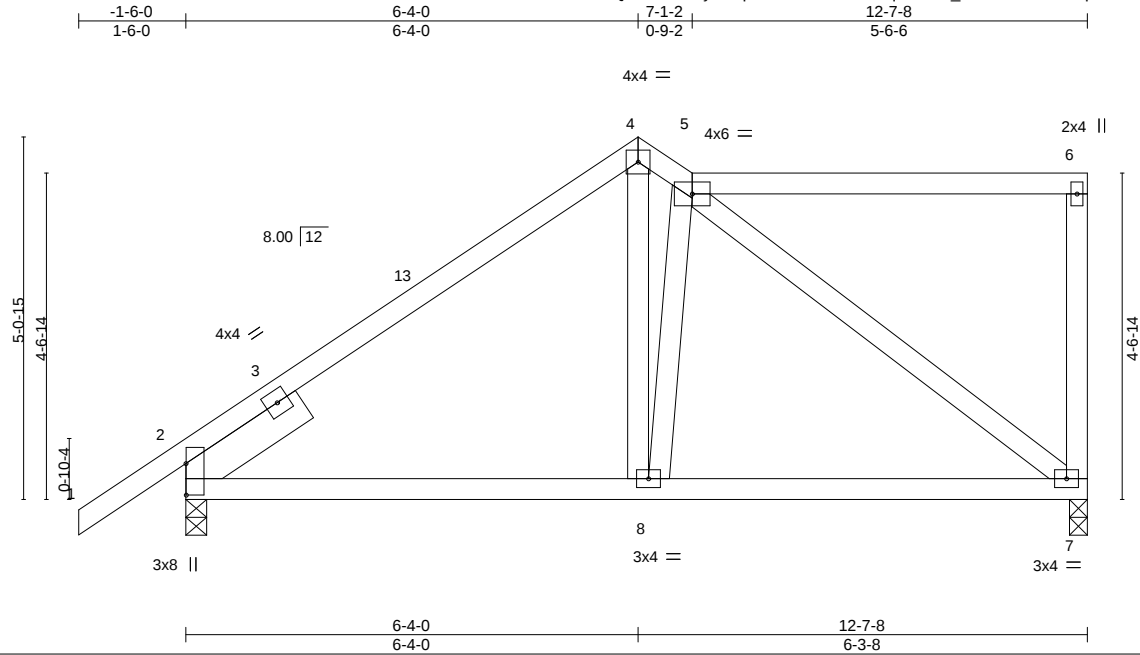
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641076
3235278	T30	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:33 2022 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-5WzqXwVbA_v?MUXwbH146kpok9Maqw5CXmXqMTyk004



Scale: 3/8"=1'

Plate Offsets (X,Y)--		[2:0-5-5:0-0-1]									
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	0.05	8-11	>999	240	GRIP
TCDL	7.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.06	8-11	>999	180	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(CT)	-0.02	2	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
										Weight: 76 lb	
										FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 7=0-3-0
Max Horz 2=165(LC 12)
Max Uplift 2=-108(LC 12), 7=-112(LC 13)
Max Grav 2=548(LC 1), 7=457(LC 1)

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

TOP CHORD 2-4=-407/111, 4-5=-403/142
BOT CHORD 2-8=-135/331, 7-8=-137/353
WEBS 4-8=-45/323, 5-7=-429/170

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-4-0, Exterior(2E) 6-4-0 to 7-1-2, Interior(1) 7-1-2 to 12-5-12 zone; 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 100 lb uplift at joint(s) except (jt=lb) 2=108, 7=112.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

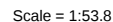
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
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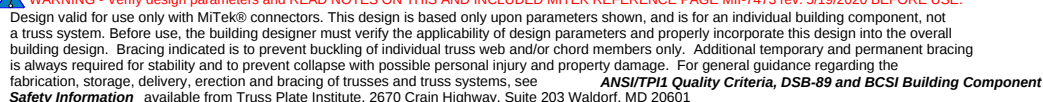
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:36 2022 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhz6?b-V5fy9xXUTvHZDxGVGQbokMRHrMLS1GZeDKlVzoyk001



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Date:

August 29, 2022



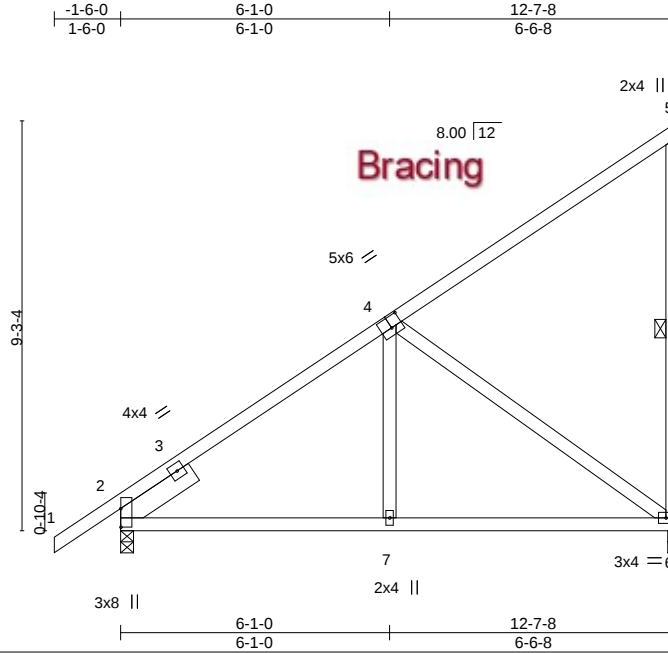
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641080
3235278	T34	Monopitch	6	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:37 2022 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-zHCLNHY6EDPQr5rhq761Ha_T5mjEmicnSOV2VEyk000



Scale = 1:52.1

Plate Offsets (X,Y)--		[2:0-5-1,0-0-1], [4:0-3-0,0-3-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.05	6-7	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.10	6-7	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	-0.01	2	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS									
												Weight: 79 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS.

(size) 2=0-3-8, 6=0-3-0
 Max Horz 2=316(LC 12)
 Max Uplift 2=-51(LC 12), 6=-231(LC 12)
 Max Grav 2=548(LC 1), 6=482(LC 19)

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

TOP CHORD 2-4=-394/0
 BOT CHORD 2-7=-204/393, 6-7=-204/394
 WEBS 4-7=0/275, 4-6=-473/245

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-5-12 zone;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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 6=231.

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.
 WEBS 1 Row at midpt 5-6

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 Date:

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



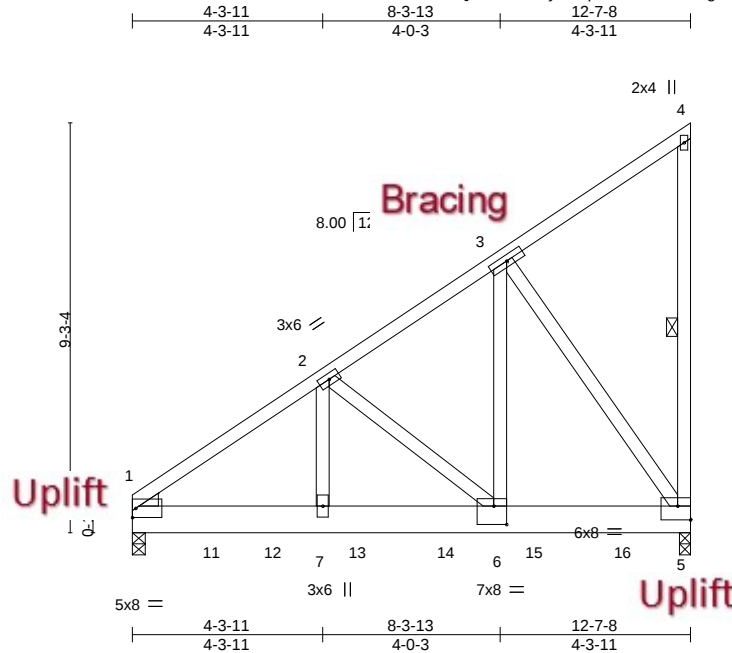
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641081
3235278	T35	Monopitch Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:39 2022 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-vgK5ozaMmqf84P_4xY8VM?3rTaREEa24vi_9Z7yk00_



Scale = 1:52.1

Plate Offsets (X,Y)-- [5:Edge,0-3-12], [6:0-3-8,0-5-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.24	Vert(LL)	-0.04	6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.22	Vert(CT)	-0.07	6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.68	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						Weight: 209 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.
WEBS 1 Row at midpt 4-5

REACTIONS.

(size) 1=0-3-8, 5=0-3-0
Max Horz 1=286(LC 23)
Max Uplift 1=-704(LC 8), 5=-1001(LC 8)
Max Grav 1=2458(LC 1), 5=3141(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3562/1106, 2-3=-2192/553
BOT CHORD 1-7=-1140/2899, 6-7=-1140/2899, 5-6=-599/1803
WEBS 2-7=-656/1543, 2-6=-1474/697, 3-6=-1052/3536, 3-5=-3127/1037

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: 2x8 - 2 rows staggered at 0-6-0 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.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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" tall by 2'-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) except (it=lb) 1=704, 5=1001.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down at 1-1-13, 157 lb down at 3-1-13, 1798 lb down and 960 lb up at 5-0-12, 1034 lb down and 198 lb up at 7-0-12, and 1064 lb down and 221 lb up at 9-0-12, and 700 lb down and 175 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

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Date:

August 29,2022

Continued on page 2

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641081
3235278	T35	Monopitch Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Fri Aug 26 10:06:39 2022
Page 2
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LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 11=-83(B) 12=-157(B) 13=-1798(B) 14=-940(B) 15=-940(B) 16=-608(B)

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641082
3235278	T36	Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Fri Aug 26 10:06:41 2022
Page 2
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LOAD CASE(S)
Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)

Vert: 1-2=-54, 2-4=-54, 4-7=-54, 7-9=-54, 10-16=-20
- Concentrated Loads (lb)

Vert: 4=-22(F) 7=-22(F) 13=-275(F) 14=-358(F) 5=-22(F) 6=-22(F) 12=-358(F) 17=-22(F) 18=-22(F) 19=-22(F) 20=-22(F) 21=-138(F) 23=-138(F) 26=-138(F) 28=-138(F)



Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641083
3235278	T37	Roof Special	1	1	Job Reference (optional)	

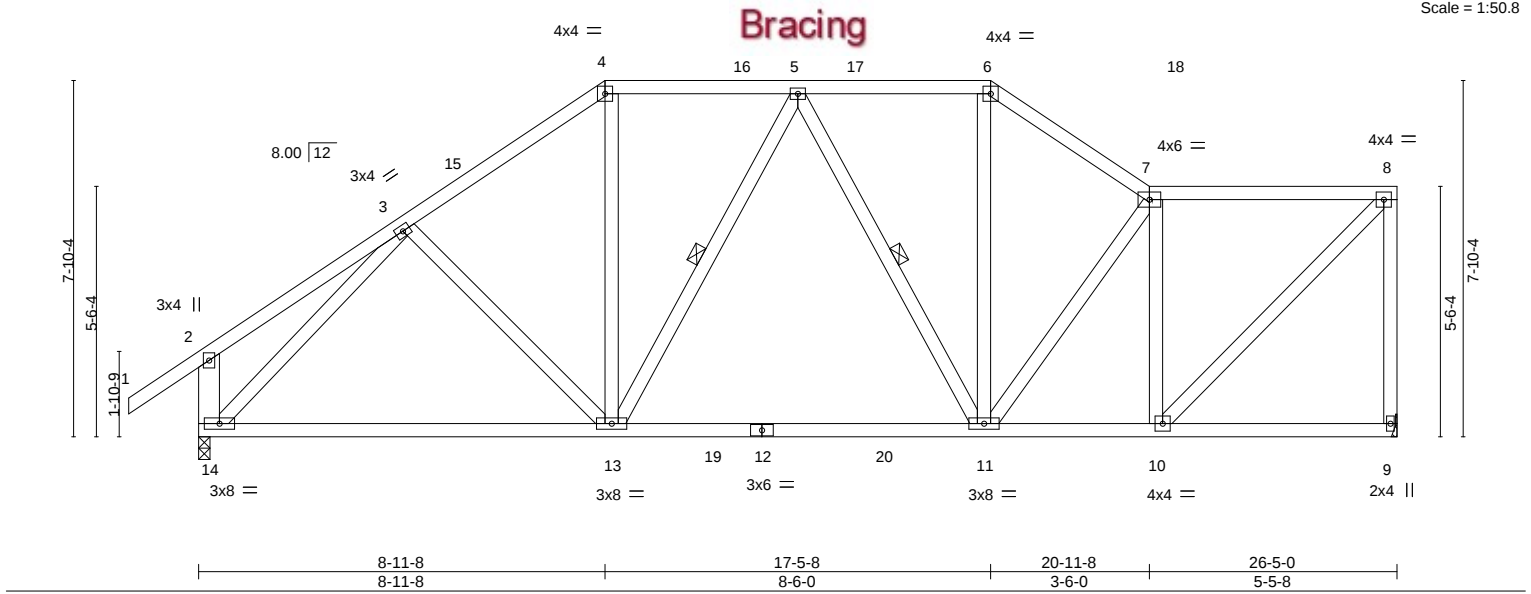
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:43 2022 Page 1

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Scale = 1:50.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.53	Vert(LL)	-0.17 11-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.81	Vert(CT)	-0.28 13-14	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.78	Horz(CT)	0.03 9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 187 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-14: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-13, 5-11

REACTIONS.

(size) 9=Mechanical, 14=0-3-0
Max Horz 14=170(LC 12)
Max Uplift 9=-178(LC 13), 14=-188(LC 12)
Max Grav 9=1054(LC 2), 14=1138(LC 2)

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

TOP CHORD 3-4=-1090/239, 4-5=-865/234, 5-6=-855/218, 6-7=-1063/231, 7-8=-853/162,
8-9=-964/209, 2-14=-284/133
BOT CHORD 13-14=-246/823, 11-13=-187/915, 10-11=-168/873
WEBS 4-13=-43/398, 6-11=-60/408, 7-10=-725/189, 8-10=-227/1191, 3-14=-1051/170

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 8-11-8, Exterior(2R) 8-11-8 to 11-11-8, Interior(1) 11-11-8 to 17-5-8, Exterior(2R) 17-5-8 to 20-5-8, Interior(1) 20-5-8 to 26-3-4 zone; end vertical 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=178, 14=188.

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Date:

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



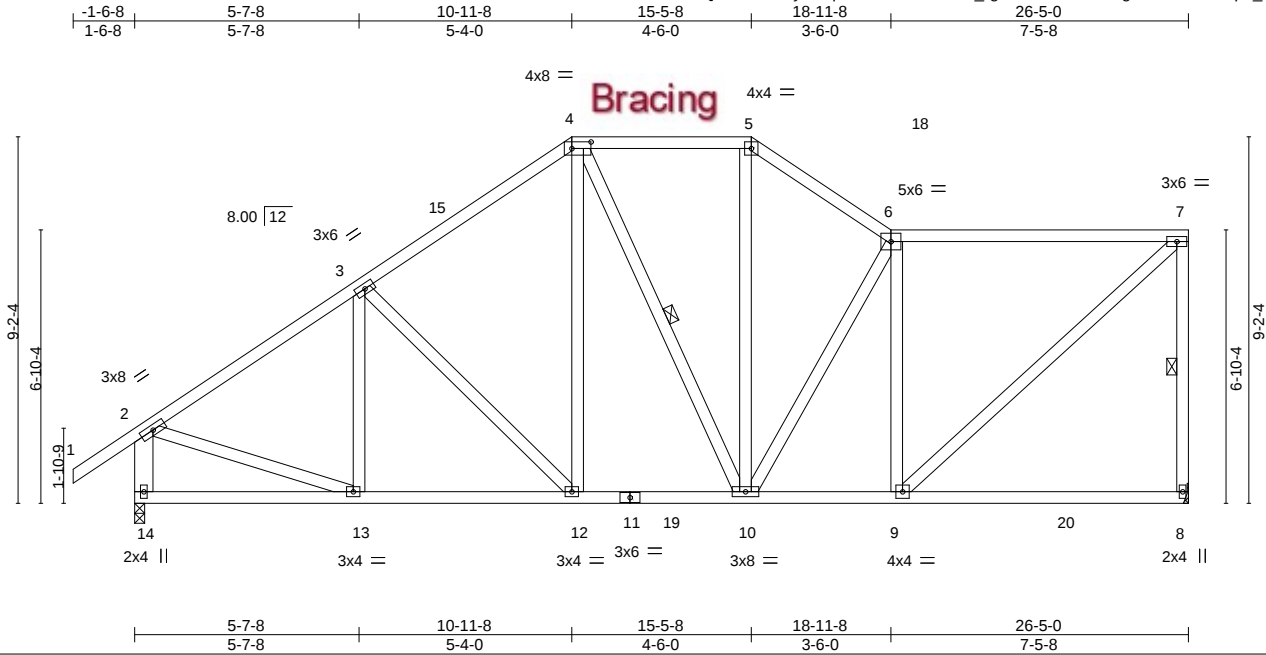
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641084
3235278	T38	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:44 2022 Page 1

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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	-0.12	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.21				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.02				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
								Weight: 199 lb FT = 20%			

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-14: 2x6 SP No.2

REACTIONS.

(size) 8=Mechanical, 14=0-3-0
Max Horz 14=216(LC 12)
Max Uplift 8=201(LC 13), 14=-195(LC 12)
Max Grav 8=1084(LC 2), 14=1142(LC 19)

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

TOP CHORD 2-3=-1120/205, 3-4=-990/236, 4-5=-759/223, 5-6=-958/241, 6-7=-870/175,
7-8=-935/222, 2-14=-1055/239
BOT CHORD 12-13=-281/938, 10-12=-175/770, 9-10=-180/882
WEBS 4-12=-85/378, 5-10=-67/382, 6-10=-279/95, 6-9=-568/200, 7-9=-232/1149,
2-13=-84/863

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 10-11-8, Exterior(2R) 10-11-8 to 13-11-8, Interior(1) 13-11-8 to 15-5-8, Exterior(2R) 15-5-8 to 18-5-8, Interior(1) 18-5-8 to 26-3-4 zone; end vertical 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=201, 14=195.

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-8, 4-10

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

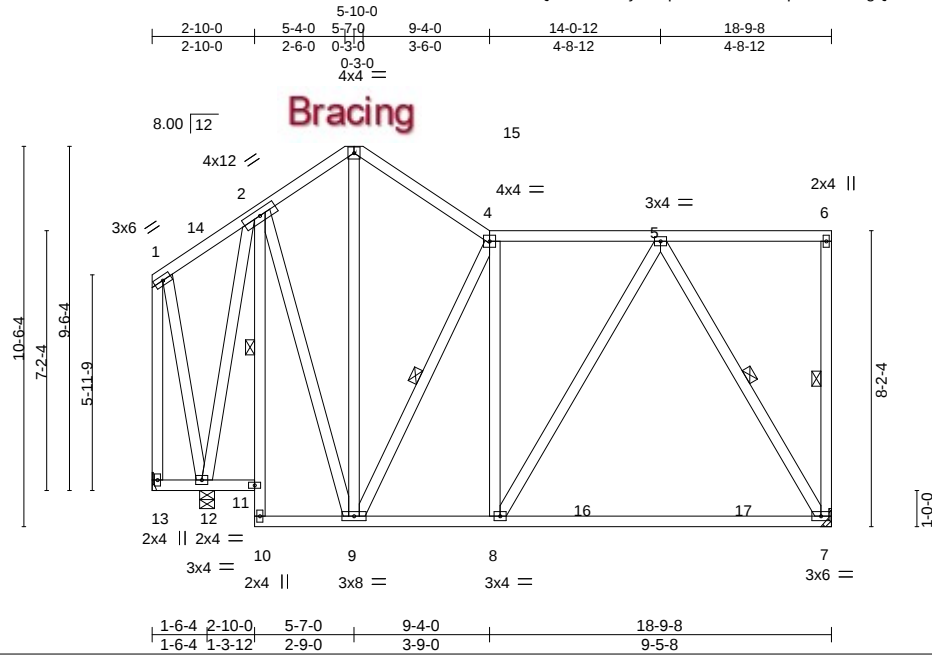


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641085
3235278	T39	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:45 2022 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-kphM20e7LgQloKSDlpFvbGJol?lpeHgZHeRTmnyk0?u



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.58	Vert(LL) -0.35	7-8	>584	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.97	Vert(CT) -0.56	7-8	>370	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.68	Horz(CT) 0.01	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 188 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-10: 2x4 SP No.3
WEBS 2x4 SP No.3

REACTIONS. (size) 7=Mechanical, 13=Mechanical, 12=0-4-15
Max Horz 13=75(LC 12)
Max Uplift 7=-155(LC 13), 13=-85(LC 10), 12=-188(LC 12)
Max Grav 7=720(LC 2), 13=87(LC 12), 12=867(LC 19)

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

TOP CHORD 2-3=-269/110, 3-4=-293/99, 4-5=-420/71
BOT CHORD 8-9=-72/417, 7-8=-76/286
WEBS 2-12=-622/119, 2-9=-64/334, 4-9=-507/110, 5-8=-21/287, 5-7=-537/152

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 2-11-12, Interior(1) 2-11-12 to 5-7-0, Exterior(2R) 5-7-0 to 8-7-0, Interior(1) 8-7-0 to 18-7-12 zone; 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 7=155, 12=188.

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
1 Row at midpt 2-11
WEBS 1 Row at midpt 6-7, 4-9, 5-7

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641086
3235278	T40	Half Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Fri Aug 26 10:06:47 2022
Page 2
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LOAD CASE(S)
Standard
Concentrated Loads (lb)
Vert: 5=-21(F) 7=-42(F) 9=-411(F) 8=-161(F) 6=-21(F) 14=-21(F) 15=-21(F) 16=-153(F) 17=-153(F) 18=-153(F)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641087
3235278	T41	Half Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:49 2022 Page 1
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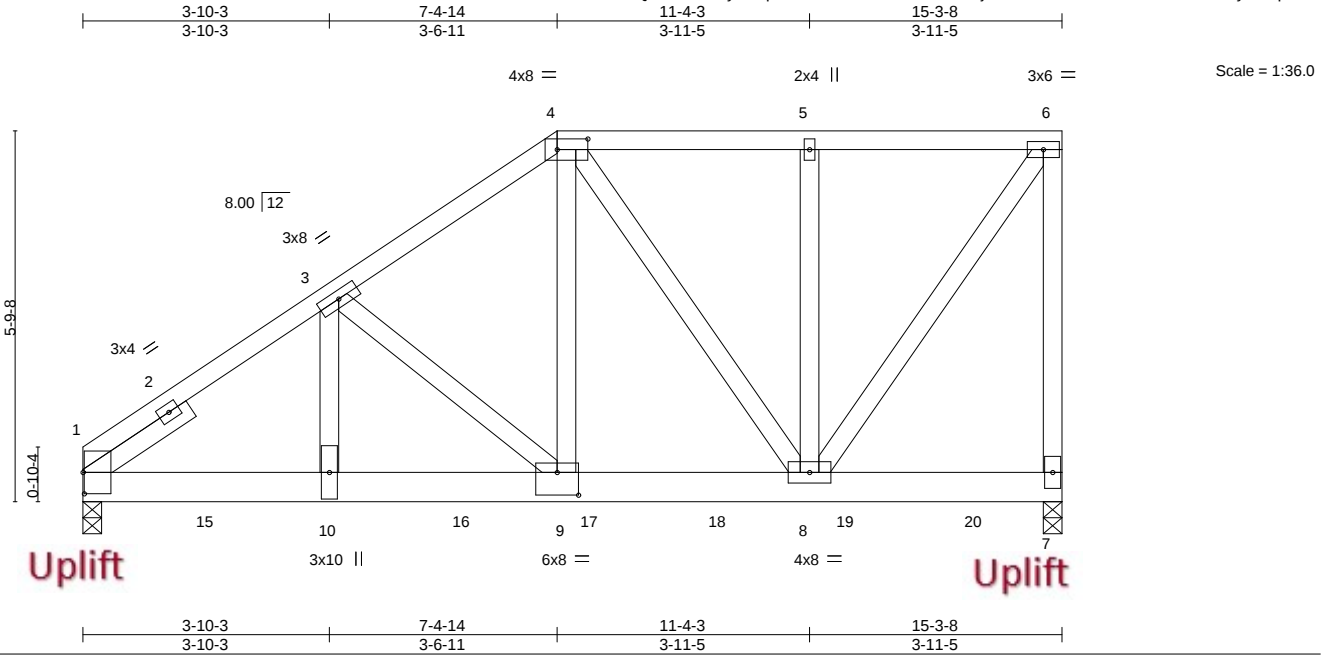


Plate Offsets (X,Y)-- [1:0-4-0,0-0-4], [4:0-5-12,0-2-0], [9:0-4-0,0-4-4]

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.41	Vert(LL)	-0.07	9-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.89	Vert(CT)	-0.12	9-10	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.73	Horz(CT)	0.02	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						Weight: 230 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 7=0-3-8
Max Horz 1=171(LC 8)
Max Uplift 1=1410(LC 5), 7=1106(LC 5)
Max Grav 1=4450(LC 1), 7=2252(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-5640/1824, 3-4=-3547/1260, 4-5=-1512/695, 5-6=-1512/695, 6-7=-2234/1028
BOT CHORD 1-10=-1605/4603, 9-10=-1605/4603, 8-9=-1104/3028
WEBS 3-10=-711/2481, 3-9=-2163/687, 4-9=-1180/3814, 4-8=-2577/734, 6-8=-1201/2618

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 0-7-0 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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch 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 100 lb uplift at joint(s) except (jt=lb) 1=1410, 7=1106.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1465 lb down and 456 lb up at 1-11-4, 1465 lb down and 456 lb up at 3-11-4, 1465 lb down and 456 lb up at 5-11-4, 1465 lb down and 456 lb up at 7-11-4, 60 lb down and 185 lb up at 9-11-4, and 113 lb down and 379 lb up at 11-11-4, and 95 lb down and 100 lb up at 13-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

Continued on page 2

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641087
3235278	T41	Half Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022
MiTek Industries, Inc.
Fri Aug 26 10:06:49 2022
Page 2
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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-54, 4-6=-54, 7-11=-20

Concentrated Loads (lb)

Vert: 10=-1465(B) 15=-1465(B) 16=-1465(B) 17=-1465(B) 18=80(B) 19=185(B) 20=13(B)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641088
3235278	T42	Common	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:51 2022 Page 1

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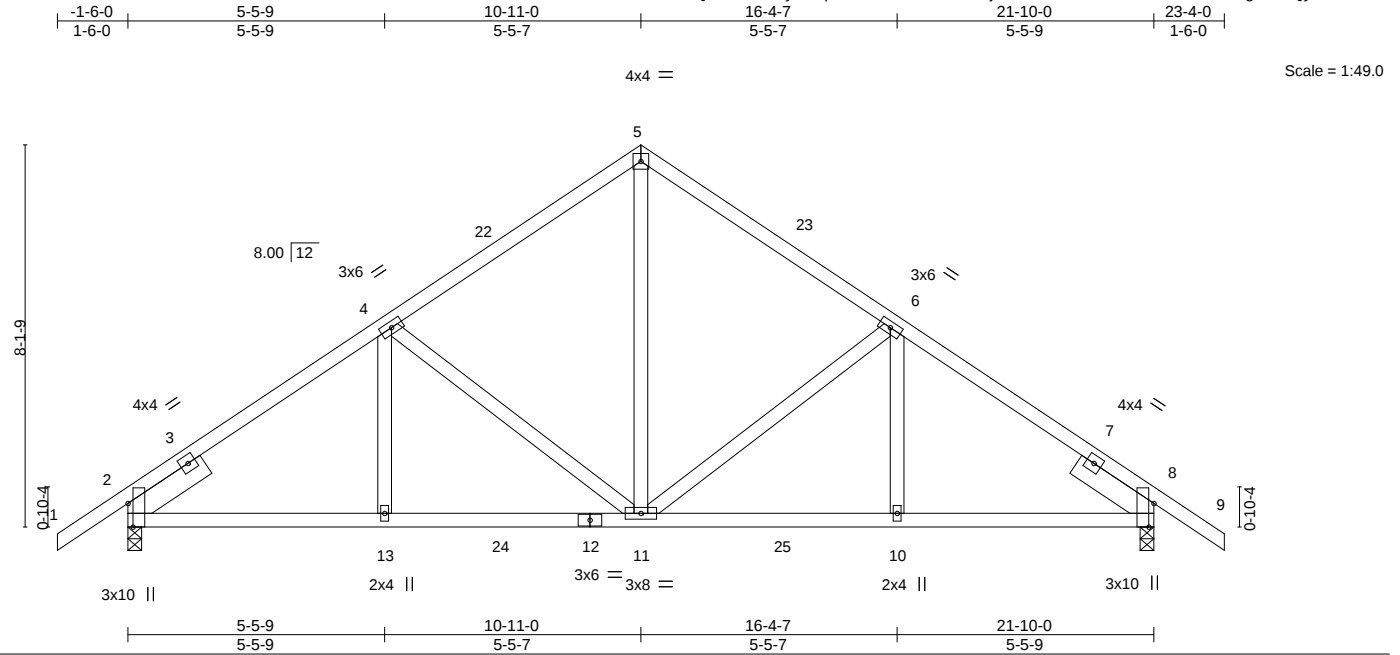


Plate Offsets (X,Y)-- [2:0-6-1,Edge], [8:0-6-1,Edge]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.33	Vert(LL)	0.07 10-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.41	Vert(CT)	-0.09 11-13	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.68	Horz(CT)	0.03 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 129 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 2=0-3-8, 8=0-3-8
 Max Horz 2=182(LC 11)
 Max Uplift 2=190(LC 12), 8=190(LC 13)
 Max Grav 2=889(LC 1), 8=889(LC 1)

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

TOP CHORD 2-4=-1029/816, 4-5=-775/650, 5-6=-775/650, 6-8=-1029/816
 BOT CHORD 2-13=-576/801, 11-13=-576/801, 10-11=-587/801, 8-10=-587/801
 WEBS 5-11=-588/486, 6-11=-310/298, 4-11=-310/298

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-11-0, Exterior(2R) 10-11-0 to 13-11-0, Interior(1) 13-11-0 to 23-4-0 zone; 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 100 lb uplift at joint(s) except (jt=lb) 2=190, 8=190.

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 Date:

August 29,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



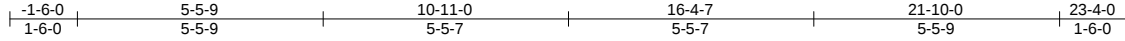
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641089
3235278	T42G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:53 2022 Page 1

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4x4 =

Scale = 1:51.2

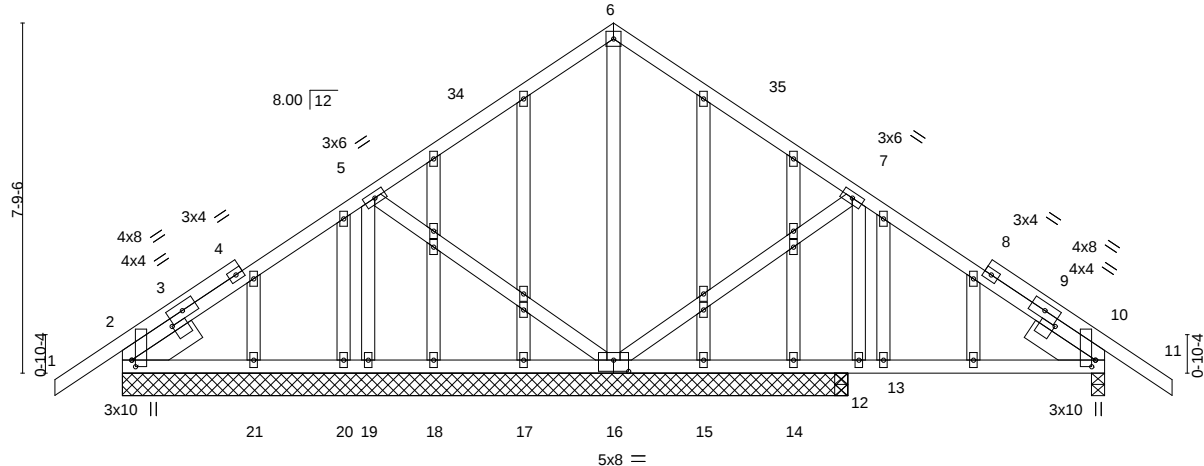


Plate Offsets (X,Y)-- [2:0-1-12,0-1-0], [2:1-1-15,0-1-8], [10:0-1-12,0-1-0], [10:1-1-15,0-1-8], [16:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.30	Vert(LL) 0.03	10-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.19	Vert(CT) -0.03	10-12	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.28	Horz(CT) 0.00	10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 180 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 1-7-2, Right 2x6 SP No.2 1-7-2

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.

All bearings 16-1-8 except (jt=length) 10=0-3-8, 13=0-3-8.
 (lb) - Max Horz 2=180(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 21, 14, 13 except 10=-109(LC 13), 16=-128(LC 13), 19=-125(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 17, 18, 20, 21, 15, 14, 13 except 2=298(LC 1), 10=394(LC 1), 16=436(LC 1), 19=270(LC 19)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 7-10=-271/148
 WEBS 6-16=-257/56

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-11-0, Exterior(2R) 10-11-0 to 13-11-0, Interior(1) 13-11-0 to 23-4-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 100 lb uplift at joint(s) 2, 21, 14, 13 except (jt=lb) 10=109, 16=128, 19=125.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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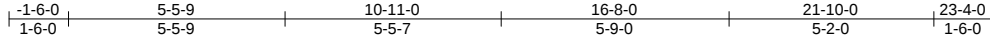


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641090
3235278	T43	Common	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:55 2022 Page 1
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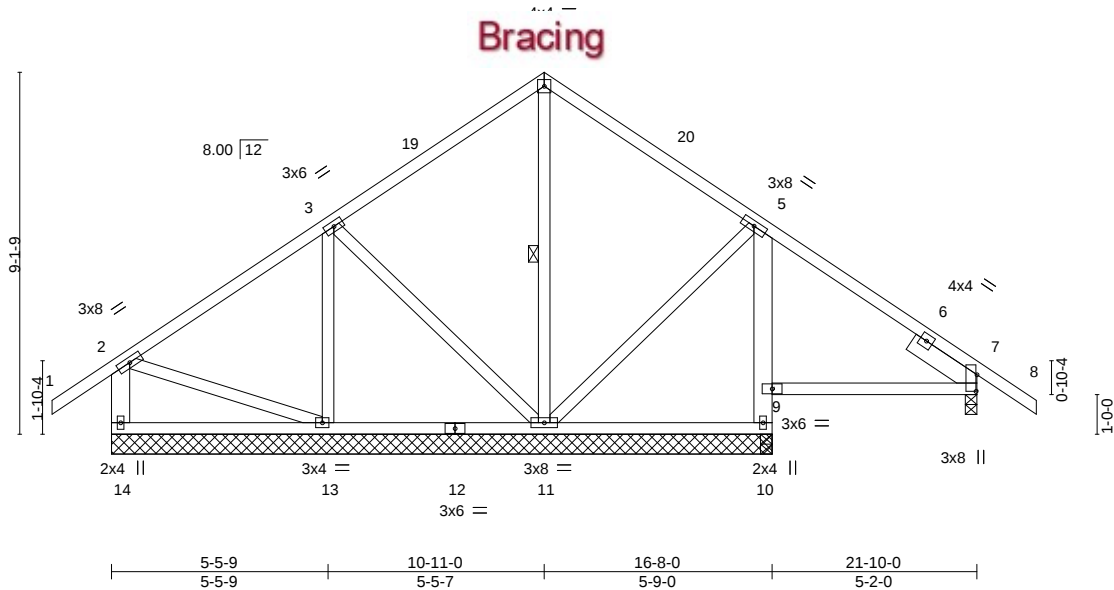


Plate Offsets (X,Y)-- [7:0-5-1,0-0-5]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.32	Vert(LL)	0.04	9-17	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.24	Vert(CT)	-0.04	9-17	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.01	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 146 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-10: 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
2-14: 2x6 SP No.2
SLIDER Right 2x6 SP No.2 1-11-8

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, Except:
6-0-0 oc bracing: 9-10.
WEBS 1 Row at midpt 4-11

REACTIONS.

All bearings 16-8-0 except (jt=length) 7=0-3-8.
(lb) - Max Horz 14=-222(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 14 except 7=-133(LC 13), 13=-103(LC 12), 11=-104(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 14=339(LC 1), 10=322(LC 24), 10=317(LC 1), 7=349(LC 1), 13=354(LC 19), 11=421(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-14=-292/126
BOT CHORD 9-10=-270/81

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-11-0, Exterior(2R) 10-11-0 to 13-11-0, Interior(1) 13-11-0 to 23-4-0 zone; end vertical left exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 14 except (jt=lb) 7=133, 13=103, 11=104.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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16023 Swingley Ridge Rd
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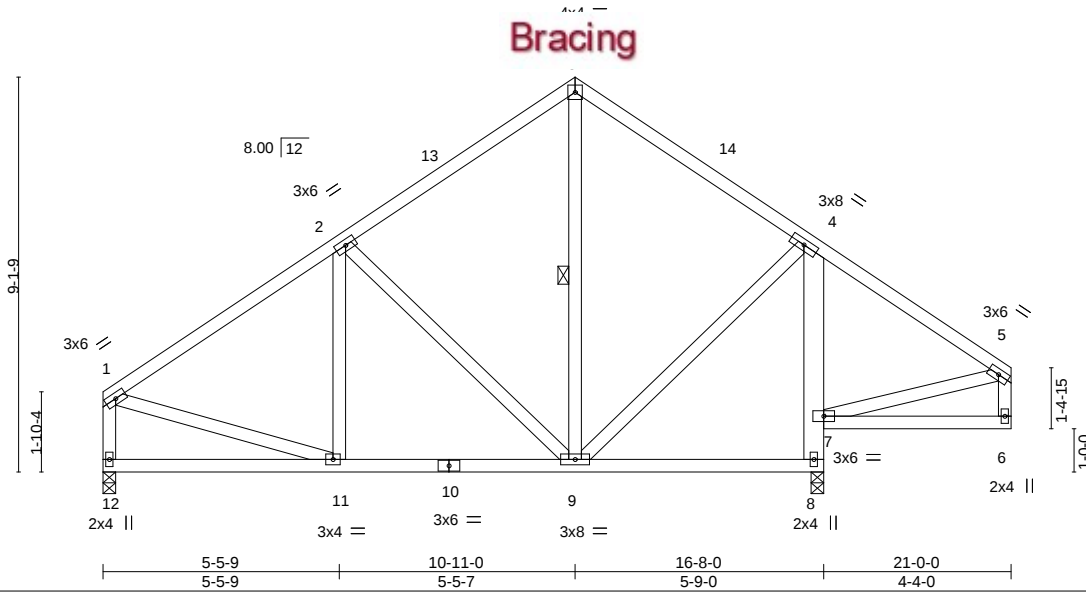
Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641091
3235278	T44	Roof Special	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:56 2022 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-vxsWMnn1l2okd0oLRdyUYaGjaQDAjLhaprbYfeyk0?



Scale = 1:53.3



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	Vert(LL)	-0.02	8-9	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.28	Vert(CT)	-0.05	8-9	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.34	Horz(CT)	0.00	8	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS					Weight: 140 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
4-8: 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

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

REACTIONS.

(size) 12=0-3-8, 8=0-3-8
Max Horz 12=157(LC 9)
Max Uplift 12=-111(LC 12), 8=-179(LC 13)
Max Grav 12=558(LC 1), 8=974(LC 1)

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

TOP CHORD 1-2=-563/126, 2-3=-343/151, 3-4=-345/154, 1-12=-509/124
BOT CHORD 9-11=-156/471, 7-8=-925/197, 4-7=-829/196
WEBS 2-9=-316/184, 4-9=-55/436, 1-11=-40/380

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 10-11-0, Exterior(2R) 10-11-0 to 13-11-0, Interior(1) 13-11-0 to 20-10-4 zone; 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) except (jt=lb) 12=111, 8=179.

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Date:

August 29,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641092
3235278	T45	Monopitch	16	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:57 2022 Page 1
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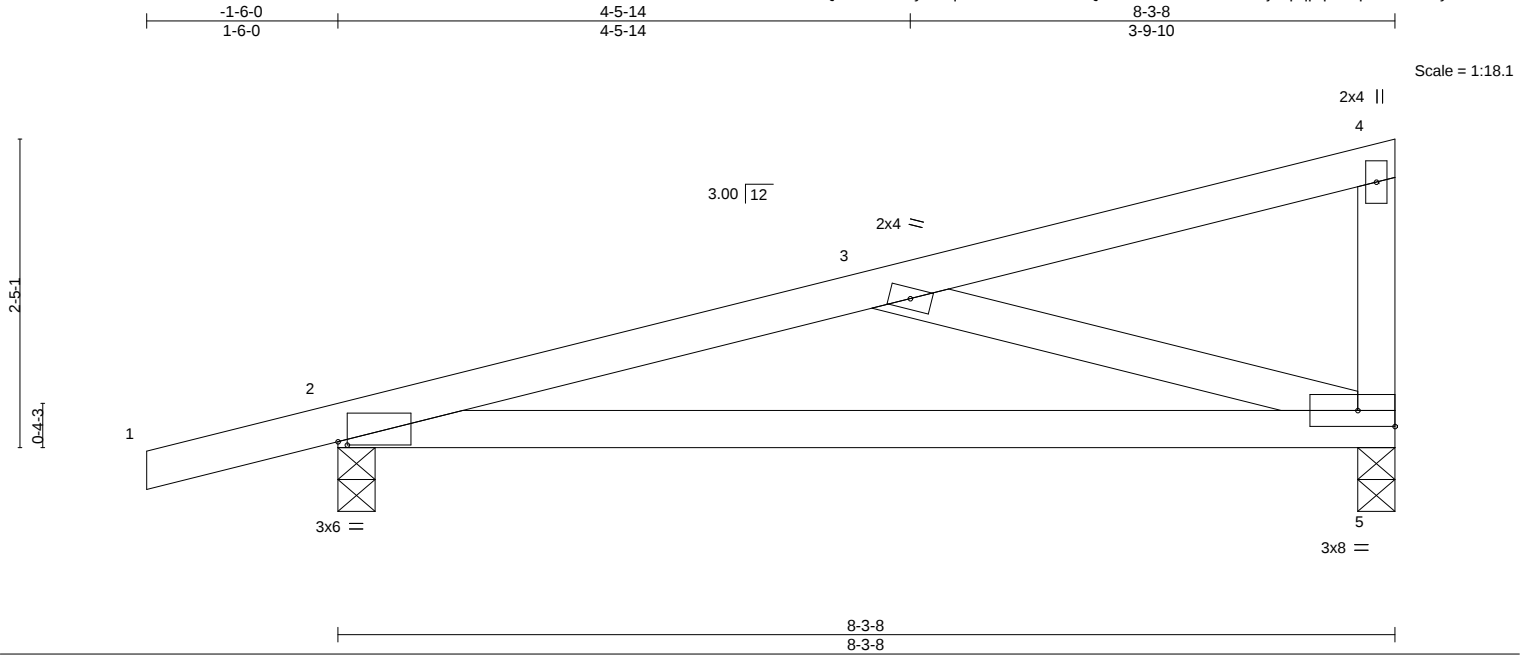


Plate Offsets (X,Y)--		[2:0-0-14,0-0-5]											
LOADING	(psf)	SPACING-		CSL		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.22	5-8	>448	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	0.19	5-8	>517	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	-0.01	5	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 36 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 5=0-3-8
Max Horz 2=87(LC 8)
Max Uplift 2=-201(LC 8), 5=-152(LC 8)
Max Grav 2=390(LC 1), 5=294(LC 1)

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

TOP CHORD 2-3=-564/673
BOT CHORD 2-5=-762/544
WEBS 3-5=-527/710

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 8-1-12 zone; porch 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=201, 5=152.

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Date:

August 29,2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



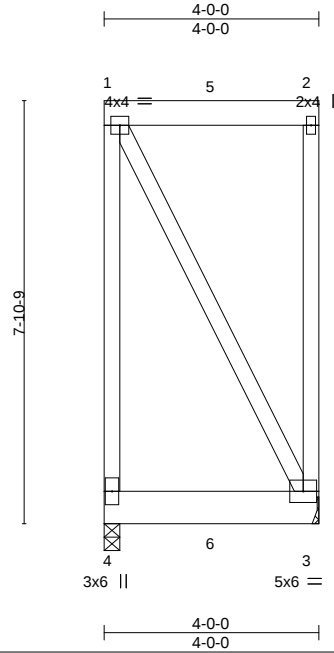
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641093
3235278	TG01	Flat Girder	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:58 2022 Page 1

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-sJ_HnToHHg3SsJxjY1_yd?M63EzGBKRtH94fjWyk0?h



Scale = 1:42.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.15	Vert(LL)	-0.00	3-4	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	-0.00	3-4	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP					Weight: 53 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-

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

REACTIONS.

(size) 4=0-3-8, 3=Mechanical
Max Uplift 4=-99(LC 4), 3=-104(LC 4)
Max Grav 4=252(LC 1), 3=261(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=104.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 91 lb down and 38 lb up at 2-0-12 on top chord, and 191 lb down and 120 lb up at 2-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-54(B) 6=-184(B)

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Date:

August 29,2022

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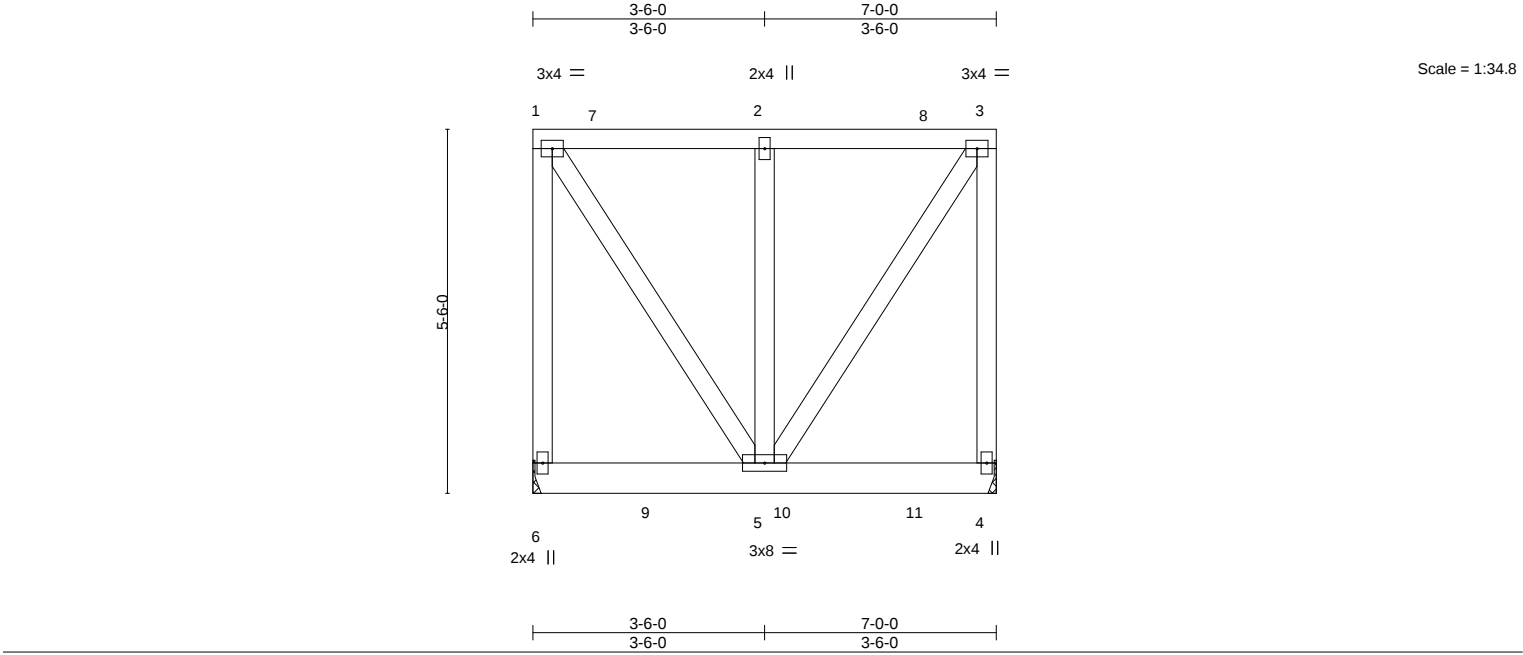


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.
3235278	TG02	FLAT GIRDER	1	1	T28641094

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Fri Aug 26 10:07:00 2022
Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	Vert(LL)	-0.01	4-5	>999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.20	Vert(CT)	-0.01	4-5	>999		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.19	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 65 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 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
REACTIONS. (size) 6=Mechanical, 4=Mechanical	
Max Uplift 6=-169(LC 4), 4=-190(LC 4)	
Max Grav 6=621(LC 1), 4=695(LC 1)	
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 1-6=-490/148, 1-2=-276/75, 2-3=-276/75, 3-4=-489/148	
WEBS 1-5=-133/492, 3-5=-133/491	

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * 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.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=169, 4=190.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 273 lb down and 89 lb up at 1-9-10, and 273 lb down and 89 lb up at 3-9-10, and 273 lb down and 89 lb up at 5-9-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard	
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25	
Uniform Loads (plf)	
Vert: 1-3=-54, 4-6=-20	
Concentrated Loads (lb)	
Vert: 9=-273(B) 10=-273(B) 11=-273(B)	

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 29,2022

Job	Truss	Truss Type	Qty	Ply	IC CONST. - KNOLL RES.	T28641095
3235278	V01	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:07:01 2022 Page 1
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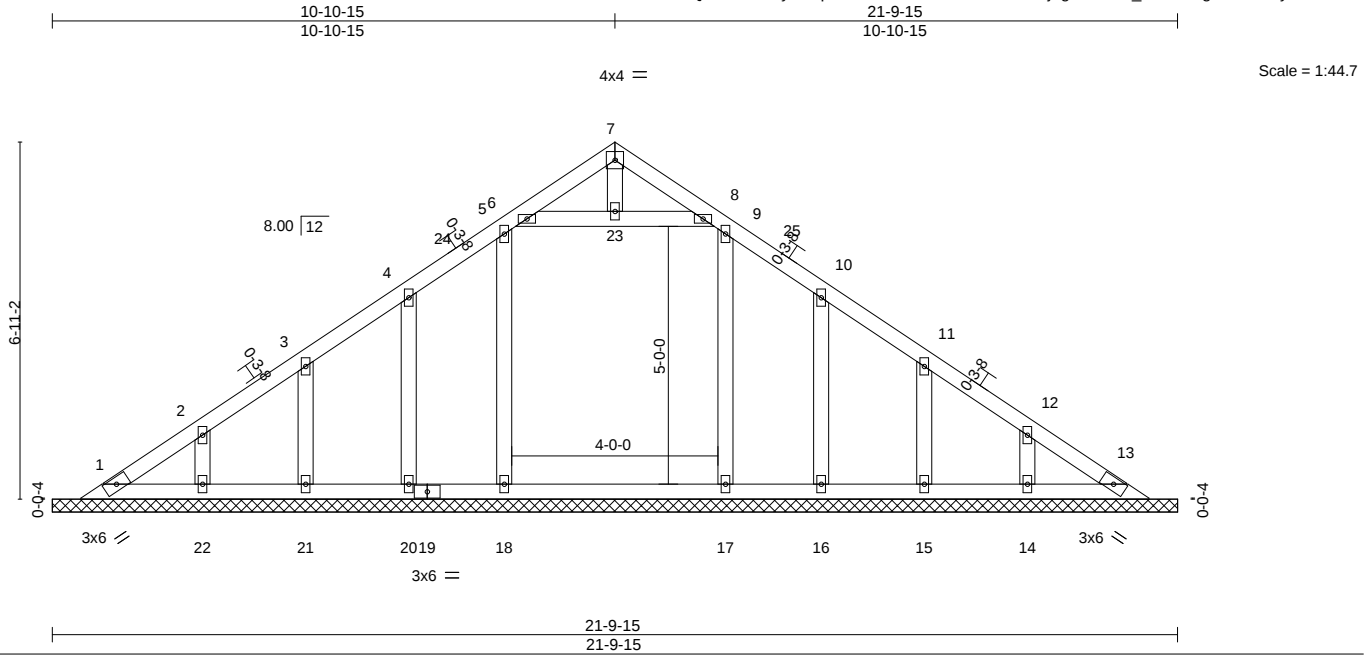


Plate Offsets (X,Y)--		[9:0-0-0,0-0-0]											
LOADING (psf)		SPACING-		CSI.		DEFL.		in (loc)	l/defl	L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	n/a	-	n/a	999		MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	13	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S								Weight: 109 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

REACTIONS.

All bearings 21-9-15.
(lb) - Max Horz 1=-146(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 18, 20, 21, 22, 16, 15, 14
Max Grav All reactions 250 lb or less at joint(s) 1, 13, 20, 21, 22, 16, 15, 14 except 18=336(LC 19), 17=311(LC 20)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 1-0-1 to 4-0-1, Interior(1) 4-0-1 to 10-10-15, Exterior(2R) 10-10-15 to 13-10-15, Interior(1) 13-10-15 to 20-9-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 18, 20, 21, 22, 16, 15, 14.

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.

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.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

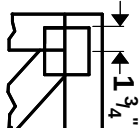
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



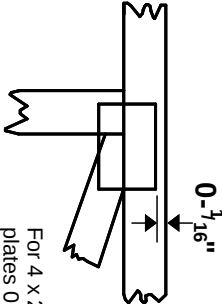
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Symbols

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- $\frac{3}{16}$ " from outside edge of truss.

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

*** Plate location details available in MITek 20120 software or upon request.**

PLATE SIZE

4 X 4

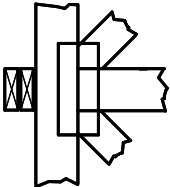
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



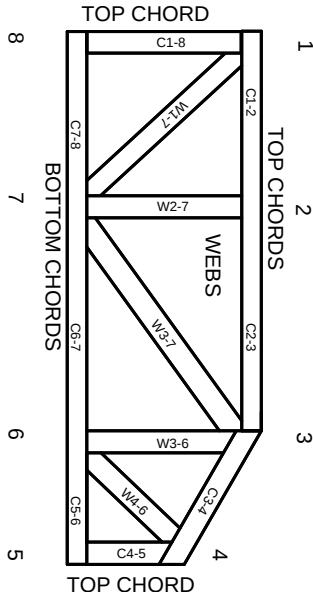
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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Mitek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



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.