



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	<u>T</u> 01G	8/29/22
14	T28641031	CJ08	8/29/22	28	T28641045	T02	8/29/22

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

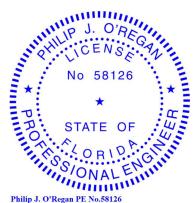
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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: ORegan, Philip

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

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.



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



RE: 3235278 - IC CONST. - KNOLL RES.

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

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Lot/Block: N/A 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 32 33 34 35 36 37 38 39	T28641048 T28641049 T28641050 T28641051 T28641052 T28641053 T28641054 T28641055 T28641056	T04 T04G T05 T06 T07 T08 T09 T10	8/29/22 8/29/22 8/29/22 8/29/22 8/29/22 8/29/22 8/29/22 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 54 55 56 57 58 59	T28641070 T28641071 T28641072 T28641073 T28641074 T28641075 T28641076	T25 T26 T27 T28 T28G T29 T30	8/29/22 8/29/22 8/29/22 8/29/22 8/29/22 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.	7
					T28641018	
3235278	CJ01	Jack-Open	4	1		
					Job Reference (optional)	

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

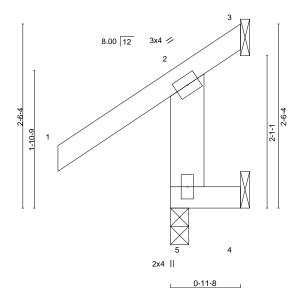
Structural wood sheathing directly applied or 0-11-8 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-NVFL9FZgY043?UZw0veoyHbUHjoMYkxjbeeic_yk01I -1-6-8 0-11-8 1-6-8

Scale = 1:15.8



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TP	12014	Matri	x-MR						Weight: 10 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

0-11-8

LUMBER-

REACTIONS.

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

2x6 SP No.2 WFBS

> (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:





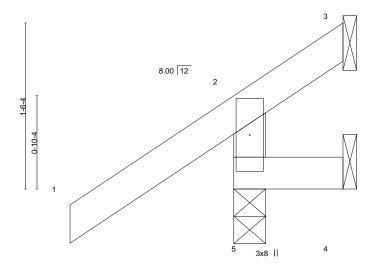
8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:16 2022 Page 1

Structural wood sheathing directly applied or 1-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-ripjNbZIJKCwde87ad91UU7gH69eHBBspING9Ryk01H -1-6-0 1-6-0

Scale = 1:10.6



1-0-0 1-0-0

except end verticals

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-MR						Weight: 7 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WFBS

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

2x4 SP No.3

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=52(LC 12)

Max Uplift 5=-53(LC 12), 3=-42(LC 1), 4=-15(LC 20) Max Grav 5=207(LC 1), 3=9(LC 16), 4=10(LC 3)

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

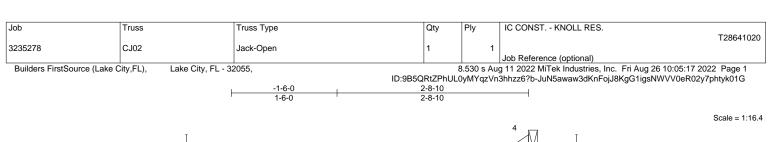
NOTES-

- 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; 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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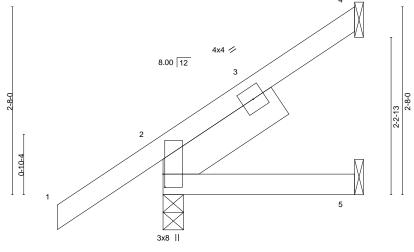


Plate Offsets (X,Y)--[2:0-2-4,0-0-5] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.17 Vert(LL) -0.00 8 >999 240 MT20 244/190 TCDL вс Vert(CT) 7.0 Lumber DOL 1.25 0.06 -0.00 5-8 >999 180 0.0 WB 0.00 **BCLL** Rep Stress Incr YES Horz(CT)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

BRACING-

TOP CHORD

BOT CHORD

2-8-10 2-8-10

LUMBER-

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

SLIDER Left 2x6 SP No.2 1-11-8

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-

- 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.

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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

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*

Structural wood sheathing directly applied or 2-8-10 oc purlins.

Job	Truss	Truss Type	Qty	Ply	IC CONST KNOLL RES.
					T28641021
3235278	CJ03	Jack-Open	3	1	
					Job Reference (optional)

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:18 2022 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-n4xToGbZqxSesyIVh1BVavD?3wnVl5g9HcsMDJyk01F

-1-<u>6-8</u> 1-6-8

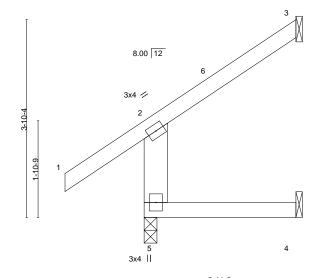
2-11-8

BRACING-

TOP CHORD

BOT CHORD

Scale = 1:22.5



LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.23
TCDL 7.0	Lumber DOL	1.25	BC 0.27
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDI 10.0	Code FBC2020/TP	12014	Matrix-MR

DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.01 -0.01 -0.04	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
11012(01)	-0.04	3	II/a	II/a	Weight: 16 lb	FT = 2

except end verticals

Structural wood sheathing directly applied or 2-11-8 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

REACTIONS.

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

2x6 SP No.2

(size) 5=0-3-0, 3=Mechanical, 4=Mechanical

Max Horz 5=83(LC 9)

Max Uplift 5=-9(LC 12), 3=-63(LC 12), 4=-19(LC 12) Max Grav 5=226(LC 1), 3=65(LC 19), 4=47(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 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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FT = 20%

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



Job	Truss	Truss Type	Qty	Ply	IC CONST KNOLL RES.
					T28641022
3235278	CJ03A	Jack-Open	1	1	
					Inh Reference (ontional)

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:19 2022 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-FHVr?ccBbFaVU6tiFlik67lCcKAaUYOlWGcwlmyk01E

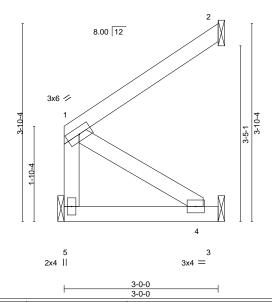
Structural wood sheathing directly applied or 3-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

3-0-0

Scale = 1:22.4



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	0.12	Vert(LL)	-0.00	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI	2014	Matri	x-MP						Weight: 16 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.3 WFBS

(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.

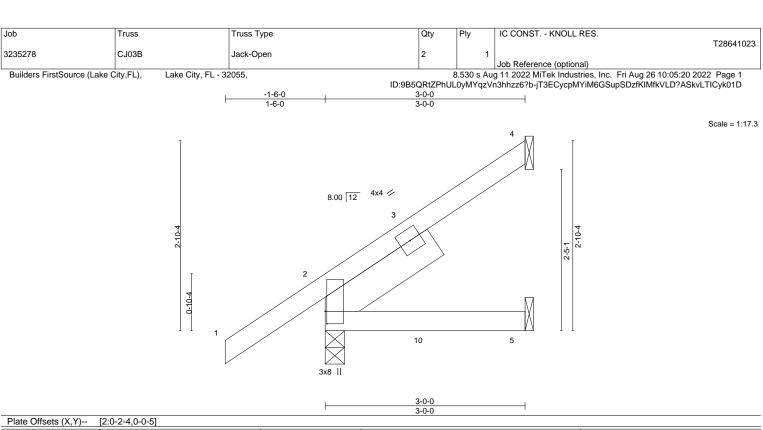
NOTES-

- 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
- 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.
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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 ioint 3.

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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:





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%

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 2 2x4 SP No 2

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

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 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.

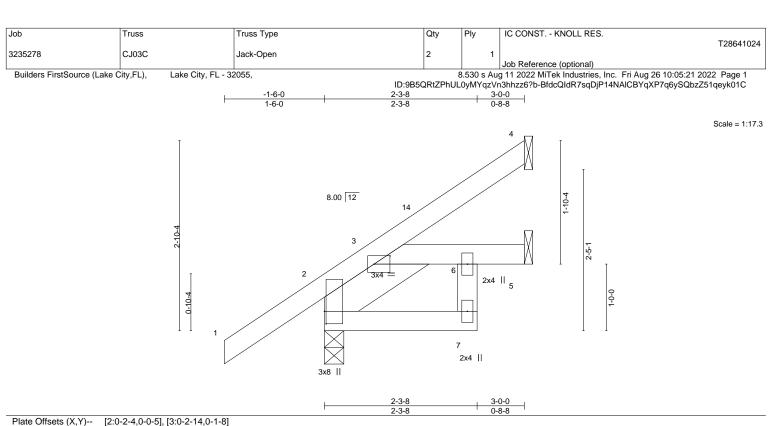
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Chesterfield, MO 63017

Structural wood sheathing directly applied or 3-0-0 oc purlins.



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	0.16	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/TP	12014	Matri	x-MR						Weight: 20 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No 2

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

6-7: 2x4 SP No.3

SLIDER Left 2x6 SP No.2 1-8-6

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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August 29,2022



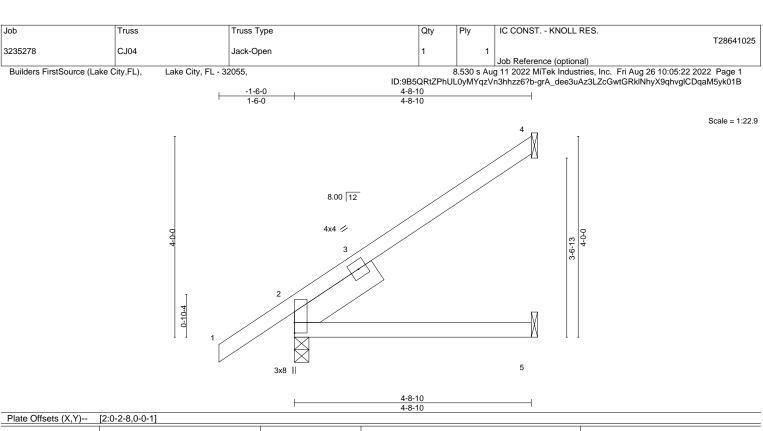
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Structural wood sheathing directly applied or 3-0-0 oc purlins.



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

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x6 SP No.2 1-11-8

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.

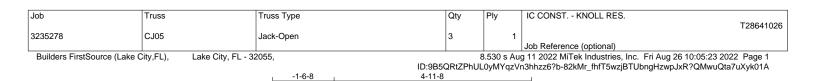
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August 29,2022



Structural wood sheathing directly applied or 4-8-10 oc purlins.



8.00 12 3x4 🖊 4-9-1 1-10-9 4x4 ||

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	0.06	4-5	>958	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.05	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.12	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-MR						Weight: 23 lb	FT = 20%

4-11-8

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WFBS

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

2x6 SP No.2

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)

(size) 5=0-3-0, 3=Mechanical, 4=Mechanical

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

1-6-8

- 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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Scale = 1:28.9

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August 29,2022

Structural wood sheathing directly applied or 4-11-8 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

Job	Truss	Truss Type	Qty	Ply	IC CONST KNOLL RES.	٦
					T28641027	1
3235278	CJ05A	Jack-Open	1	1		
					Joh Reference (ontional)	

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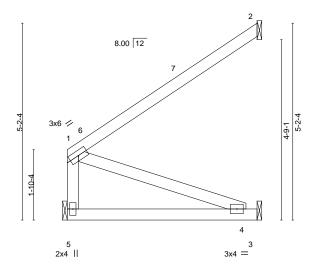
Structural wood sheathing directly applied or 5-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

5-0-0 5-0-0

Scale = 1:30.4



5-0-0

LOADIN	G (psf)	SPACING- 2-	-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1	1.25	TC	0.38	Vert(LL)	-0.03	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1	1.25	BC	0.28	Vert(CT)	-0.06	4-5	>909	180		
BCLL	0.0 *	Rep Stress Incr Y	/ES	WB	0.05	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI20	14	Matri	x-MP						Weight: 26 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WFBS

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

2x4 SP No.3

(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.

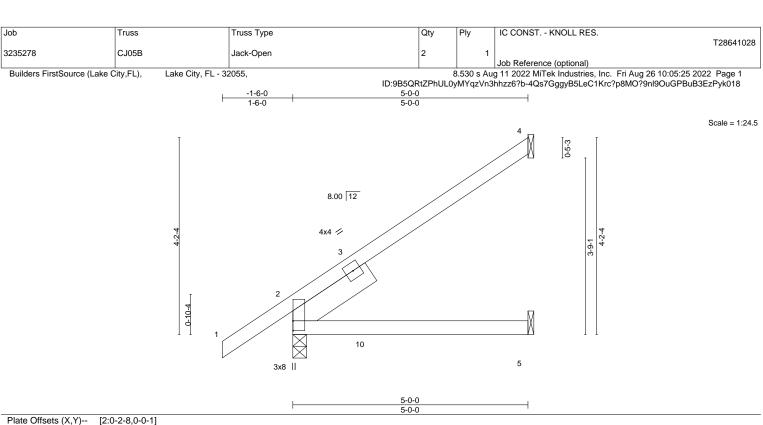
NOTES-

- 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 ioint 3.

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- 10110 011	0010 (71, 1)	[2.0 2 0,0 0 1]							
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC 0.39	Vert(LL) 0.09	5-8	>657	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25	BC 0.38	Vert(CT) 0.08	5-8	>749	180		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.03	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014	Matrix-MP					Weight: 24 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 2 2x4 SP No 2

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

REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=143(LC 12)

Max Uplift 4=-86(LC 12), 2=-36(LC 12), 5=-32(LC 9) Max Grav 4=116(LC 19), 2=276(LC 1), 5=87(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; 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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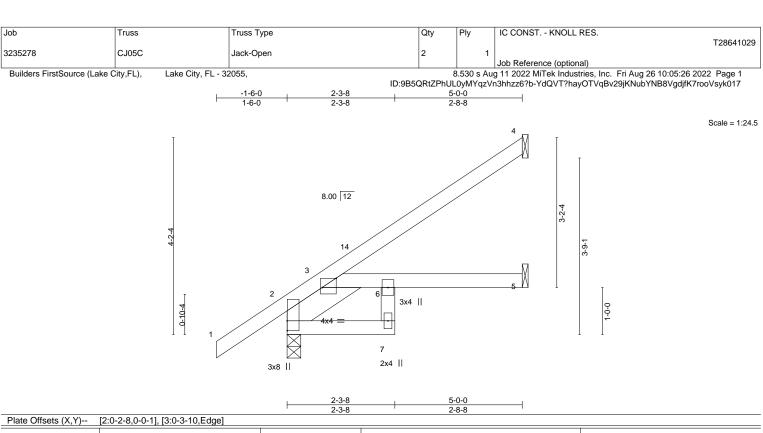
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16023 Swingley Ridge Rd

Structural wood sheathing directly applied or 5-0-0 oc purlins.



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEF		in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(_L) (0.04	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.31	Vert(CT) -0	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/T	PI2014	Matri	x-MR							Weight: 27 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* **BOT CHORD**

6-7: 2x4 SP No.3

SLIDER Left 2x6 SP No.2 1-8-6

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.

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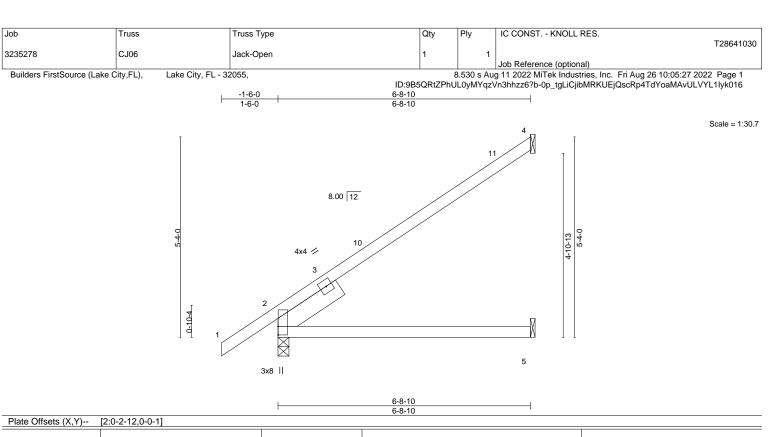
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Structural wood sheathing directly applied or 5-0-0 oc purlins.



LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.56 Vert(LL) 0.13 5-8 >600 240 MT20 244/190 TCDL Vert(CT) 7.0 Lumber DOL 1.25 вс 0.46 -0.18 5-8 >432 180 0.0 WB **BCLL** Rep Stress Incr YES 0.00 Horz(CT) 0.05 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MP Weight: 30 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical Max Horz 2=178(LC 12)

Max Uplift 4=-106(LC 12), 2=-41(LC 12), 5=-10(LC 12)

Max Grav 4=166(LC 19), 2=336(LC 1), 5=120(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-308/77

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 6-7-14 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 106 lb uplift at joint 4, 41 lb uplift at joint 2 and 10 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



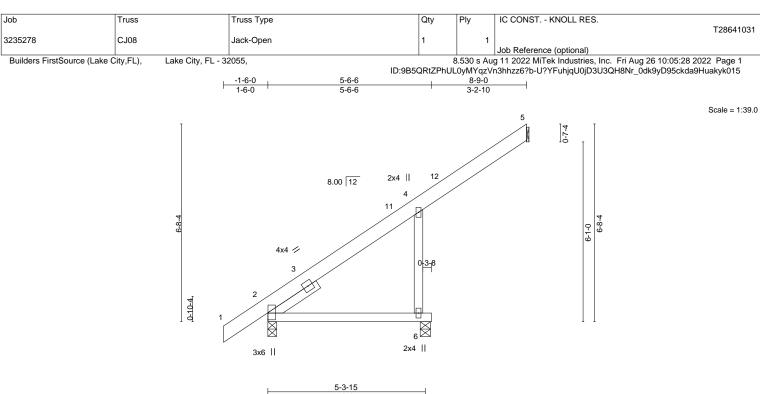
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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Structural wood sheathing directly applied or 6-0-0 oc purlins.



5-3-15	ı
5-3-15	7

Plate Offsets (X,Y)	[2:0-2-12,0-0-1]	0010		
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 0.13	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 $FT = 20\%$

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SP No.3 1-11-8

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.

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



Structural wood sheathing directly applied or 5-6-6 oc purlins.



8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:29 2022 Page 1

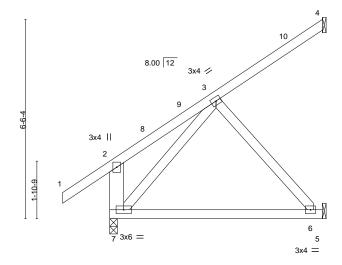
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals



Scale = 1:37.7



6-11-8

BRACING-

TOP CHORD

BOT CHORD

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.08	6-7	>971	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.17	6-7	>477	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-MS						Weight: 43 lb	FT = 20%

LUMBER-

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

2x4 SP No.3 *Except* WFBS

2-7: 2x6 SP No.2

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 7=0-3-0

Max Horz 7=161(LC 12)

Max Uplift 4=-45(LC 12), 5=-96(LC 12), 7=-20(LC 12) Max Grav 4=81(LC 19), 5=181(LC 19), 7=355(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; 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.

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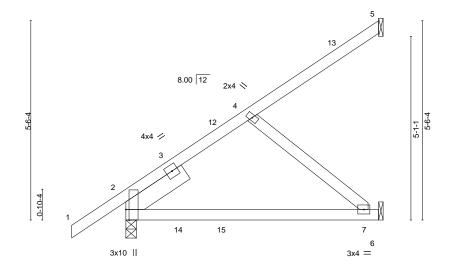
8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:30 2022 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-ROf0JNk40dzxloDpOZPJ3Ri0pmrdZWHw1Tm?edyk013

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

-1-6-0 3-6-0 3-6-0 7-0-0

Scale: 3/8"=1



7-0-0 7-0-0

BRACING-

TOP CHORD

BOT CHORD

Plate Off	sets (X,Y)	[2:0-3-8,Edge]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	0.15	7-10	>565	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	ВС	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/T	PI2014	Matri	x-MS						Weight: 37 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No 3 WFBS

SLIDER Left 2x6 SP No.2 1-11-8

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 WFBS 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.

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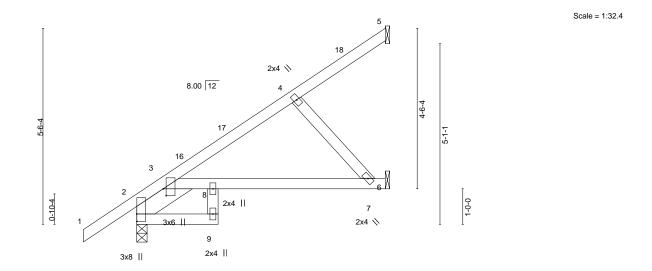
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4-8-8

2-6-0

Plate Off	sets (X,Y)	[2:0-2-8,0-0-1], [3:0-2-5,0	-1-0]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	0.08	7-8	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	ВС	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			
BCDI	10.0	Code FBC2020/T	PI2014	Matri	x-MS	1					Weight: 38 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 2

2x4 SP No.2 *Except* BOT CHORD 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-

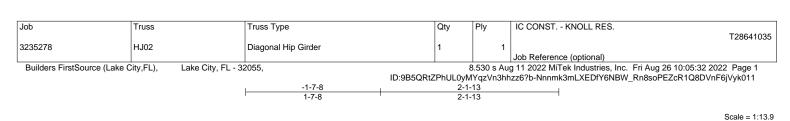
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- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent 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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Structural wood sheathing directly applied or 6-0-0 oc purlins.



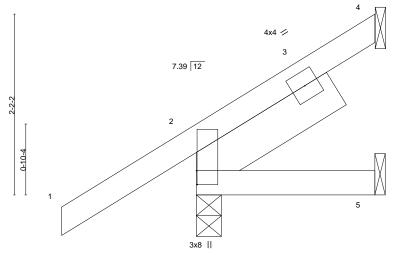


Plate Offsets (X,Y)--[2:0-2-0,0-0-2] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 ТС 0.25 Vert(LL) -0.00 8 >999 240 MT20 244/190 TCDL вс 0.03 Vert(CT) 7.0 Lumber DOL 1.25 -0.00 8 >999 180 0.0 WB 0.00 **BCLL** Rep Stress Incr Horz(CT) 0.00 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MP Weight: 15 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

2-1-13 2-1-13

Structural wood sheathing directly applied or 2-1-13 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

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

SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS.

(size) 4=Mechanical, 2=0-3-10, 5=Mechanical

Max Horz 2=74(LC 12)

Max Uplift 4=-32(LC 12), 2=-43(LC 12), 5=-1(LC 12) Max Grav 4=36(LC 19), 2=199(LC 1), 5=30(LC 3)

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

NOTES-

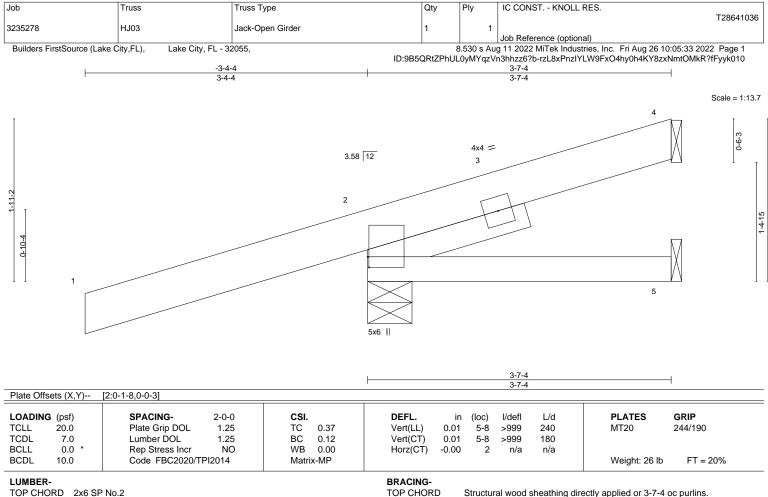
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- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent 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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BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

TOP CHORD

2x6 SP No.2 2x4 SP No 2

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

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.

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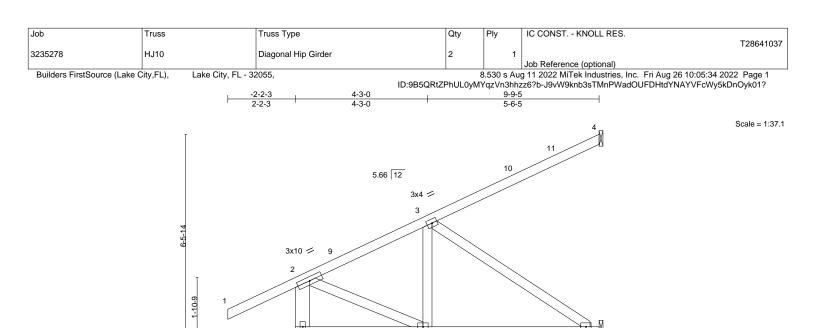
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16023 Swingley Ridge Rd Chesterfield, MO 63017



4-3-0 9-9-5 0-0-12 4-3-0 5-5-9

7

3x4 =

BRACING-

TOP CHORD

BOT CHORD

13

except end verticals

6

3x4 =

5

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	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/TI	PI2014	Matri	x-MS						Weight: 58 lb	FT = 20%

12

2x4 ||

LUMBER-

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

2x4 SP No.3 *Except* WFBS

2-8: 2x6 SP No.2

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

WFBS 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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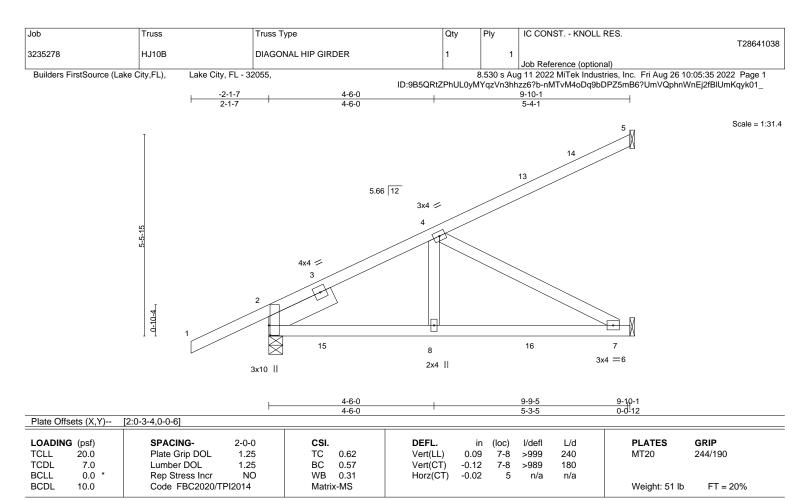
August 29,2022

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TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No 2 2x4 SP No.3 WERS

SLIDER Left 2x6 SP No.2 1-11-8

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

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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Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 9-2-5 oc bracing.

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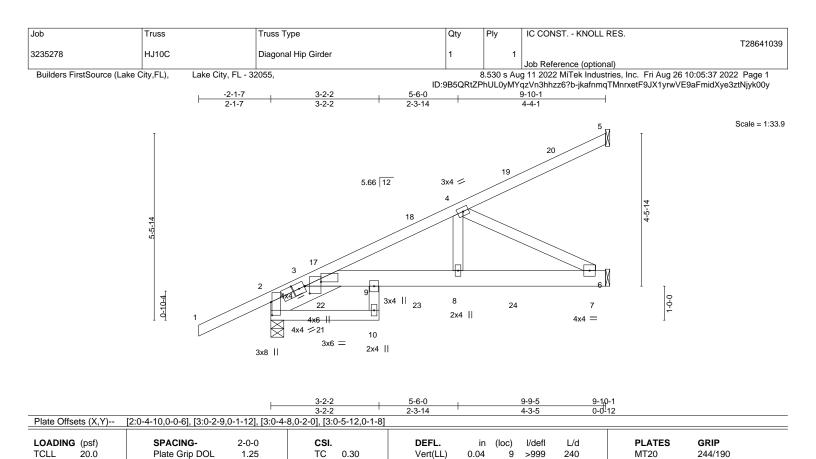
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Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.04

-0.02

9 >999

6

n/a

180

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing.

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Weight: 60 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2

7.0

0.0

10.0

BOT CHORD 2x4 SP No.2 *Except*

9-10: 2x4 SP No.3, 3-6: 2x6 SP No.2

WEBS 2x4 SP No.3

SLIDER Left 2x6 SP No.2 2-2-1

REACTIONS. (size) 5=Mechanical, 2=0-4-9, 6=Mechanical

Lumber DOL

Rep Stress Incr

Code FBC2020/TPI2014

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.

3-12=-348/106, 3-4=-799/350 TOP CHORD

3-9=-290/554, 8-9=-417/682, 7-8=-417/682 BOT CHORD

WEBS 4-8=-176/400, 4-7=-765/467

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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.25

BC

WB

Matrix-MS

0.34

0.31

- 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 63 lb uplift at joint 5, 236 lb uplift at joint 2 and 192 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, 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.
- 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, 10-11=-20, 6-9=-20

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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.
					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 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-jkafnmqTMnrxetF9JX1yrwVE9aFmidXye3ztNjyk00y

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)



16023 Swingley Ridge Rd Chesterfield, MO 63017

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

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

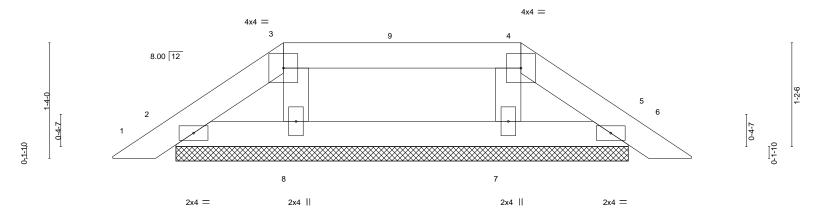
8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:38 2022 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-Cw81_6q574_oG1qLsEYBN72Sx_gpR8L5tjiQv9yk00x

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

6-8-14

Scale = 1:13.3



					6-8-14								
LOADING (ps	if)	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	MT20	244/190	
TCDL 7.	.0	Lumber DOL	1.25	ВС	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/TF	PI2014	Matri	x-P	, ,					Weight: 21 lb	FT = 20%	

BRACING-TOP CHORD

BOT CHORD

6-8-14

LUMBER-

REACTIONS.

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

(lb) -

2x4 SP No.3

All bearings 5-2-11.

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-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 8, 7.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Job Truss Truss Type Qty Ply IC CONST. - KNOLL RES. T28641041 3235278 PB02 10 Piggyback 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 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-g7iPCSrkuO6ftAPYQy3QwLadlO_XAbZF6NS_Sbyk00w Scale = 1:15.3 4x4 = 3 8.00 12 0-4-7 0-4-7 0-1-10 2x4 || 2x4 = 2x4 =6-8-14 6-8-14 LOADING (psf) SPACING-2-0-0 CSL DEFL. in (loc) I/defI I/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 вс 0.07 Vert(CT) 0.00 n/r 120 WB 0.02 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 4 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-P Weight: 22 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SP No.3 **OTHERS**

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-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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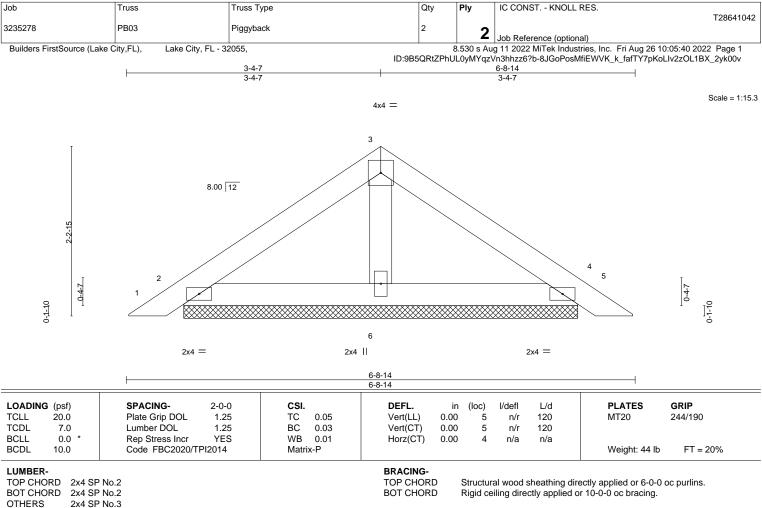


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BOT CHORD

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-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; 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
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Gable requires continuous bottom chord bearing.
- 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) 2, 4, 6.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building

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THIS TRUSS IS DESIGNED TO SUPPORT ONLY 2'-0"

OF UNIFORM LOAD AS SHOWN.



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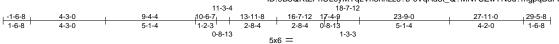
Structural wood sheathing directly applied or 4-8-10 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Brace at Jt(s): 17

Scale = 1:65.2



6 8.00 12 3x4 =3x4 =2x4 || 5 2x4 || 17 8 2x4 || 7x8 🗸 7x8 <> 3x4 || 3x4 || 9-0-0 14 $5x6 = \frac{12}{12}$ 16 5x6 = 15 13 6x8 = 4x6 = 4x6 = 18-7-12 27-11-0 9-4-4 9-3-8 9-3-4

Plate Offsets (X,Y)	[3:0-4-0,0-4-8], [9:0-3-12,0-4-8]				
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 0.71	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%
TCDL 7.0 BCLL 0.0 *	Lumber DOL 1.25 Rep Stress Incr YES	BC 0.31 WB 0.94	Vert(CT) -0.24 13-15 Horz(CT) 0.02 12	>999 180 n/a n/a	

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

TOP CHORD 2x6 SP No 2 BOT CHORD 2x8 SP 2400F 2 0F

2x4 SP No.3 *Except* WFBS

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-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 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) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-17, 7-17; Wall dead load (5.0 psf) on member(s).4-15, 8-13
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 12.
- 9) Attic room checked for L/360 deflection.

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:



Job Truss Truss Type Qty Ply IC CONST. - KNOLL RES. T28641044 3235278 **GABLE** T01G Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:43 2022 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-Yuyw1puEydc5MoiJfn8M4BlHH?MD6KAr1_QBbNyk00s

11-9-9 18-7-12 13-11-8 16-1-7 17-4-9 2-1-15 2-1-15 1-3-2 1-6-8 1-6-8 4-3-0 23-9-0 27-11-0 1-2-3 1-3-2 5-1-4 1-3-2 1-3-3 5x6 =

Scale = 1:71.7

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Brace at Jt(s): 25

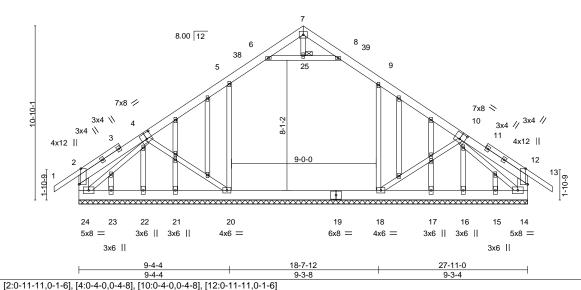


Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.20 Vert(LL) -0.01 13 n/r 120 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.08 Vert(CT) -0.02 13 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.37 Horz(CT) 0.00 14 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-S Weight: 285 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

TOP CHORD 2x6 SP No 2 *Except*

1-3.11-13: 2x4 SP No.2 **BOT CHORD** 2x8 SP 2400F 2.0E

WEBS 2x4 SP No.3 *Except*

2-24,12-14: 2x8 SP 2400F 2.0E

OTHERS 2x4 SP No.3

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; 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 16-11-8, 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 BCDL = 10.0psf.
- 10) Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-25, 8-25; Wall dead load (5.0 psf) on member(s).5-20, 9-18
- 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 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.

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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

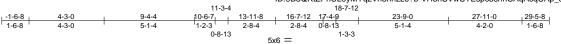
8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:45 2022 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-VH3hSVwUTEspc5shnCAqAcqUAp_5aCE7UIvIfFyk00q

2-0-0 oc purlins (6-0-0 max.), except end verticals

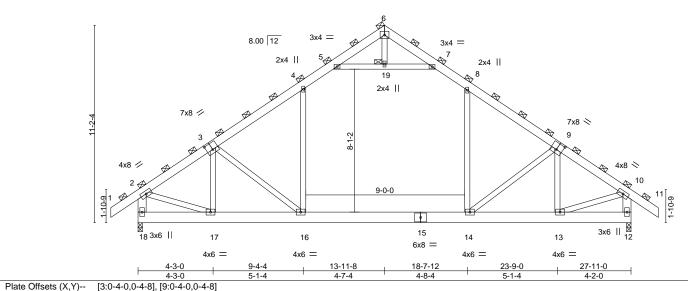
Rigid ceiling directly applied or 10-0-0 oc bracing.

(Switched from sheeted: Spacing > 2-8-0).

1 Brace at Jt(s): 6, 19, 2, 10



Scale = 1:65.2



LOADING (psf)	SPACING-	4-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
LUADING (psi)	SPACING-	4-0-0	COI.	DEFE.	111 (100)	i/ueii	L/u	FLAILS	GKIF
TCLL 20.0	Plate Grip [OOL 1.25	TC 0.81	Vert(LL)	-0.12 14-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DO	L 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 FBC	2020/TPI2014	Matrix-MS	Attic	-0.07 14-16	1698	360	Weight: 502 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

TOP CHORD 2x6 SP No 2 **BOT CHORD** 2x8 SP 2400F 2 0F WFBS

2x4 SP No.3 *Except* 2-18,10-12: 2x6 SP No.2

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 17-18=-413/560, 16-17=-201/2797, 14-16=0/2814, 13-14=0/2394 BOT CHORD

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-

- 1) 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.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; 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
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-19, 7-19; Wall dead load (5.0 psf) on member(s).4-16, 8-14
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.

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



Chesterfield, MO 63017

IC CONST. - KNOLL RES. Job Truss Truss Type Qty Ply T28641046 3235278 T02G **GABLE** 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 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-zTd3grx7EY_fDFRuKwh3ipNoJCOiJm2HjyerBhyk00p 1-6-0 3-0-0 3-0-0

Scale = 1:19.1

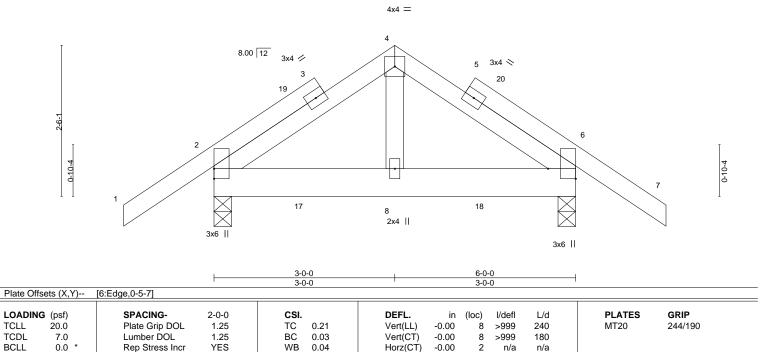
1-6-0

Weight: 39 lb

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

FT = 20%



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

WFBS

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.

Code FBC2020/TPI2014

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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

Matrix-MP

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.

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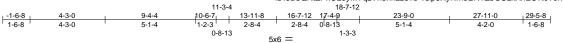
8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:48 2022 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-vslp5XyNm9ENTZbGSLkXnES?t0?ena6aAG7yGayk00n

Structural wood sheathing directly applied or 6-0-0 oc purlins,

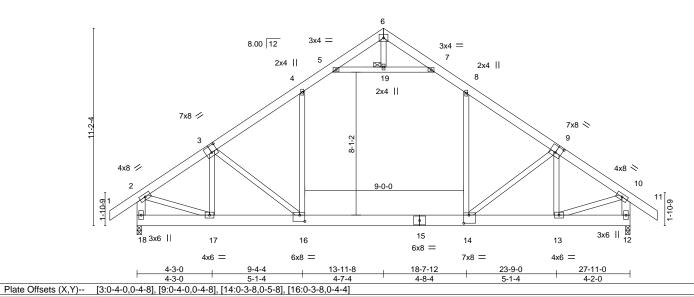
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Brace at Jt(s): 19



Scale = 1:65.2



LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.78 Vert(LL) -0.14 14-16 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.32 Vert(CT) -0.24 14-16 >999 180 WB **BCLL** 0.0 Rep Stress Incr NO 0.38 Horz(CT) 0.01 12 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Attic -0.07 14-16 1677 360 Weight: 502 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

TOP CHORD 2x6 SP No.2 **BOT CHORD** 2x8 SP 2400F 2 0F

2x4 SP No.3 *Except* WFBS 2-18,10-12: 2x6 SP No.2

REACTIONS. (size) 18=0-3-0, 12=0-3-0

Max Horz 18=-275(LC 26) Max Uplift 18=-268(LC 8), 12=-268(LC 9) Max Grav 18=2437(LC 34), 12=2446(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2577/278, 3-4=-3227/329, 4-5=-2221/286, 5-6=-64/452, 6-7=-64/443,

7-8=-2232/286, 8-9=-3233/329, 9-10=-2569/278, 2-18=-2259/285, 10-12=-2267/285

17-18=-217/315, 16-17=-284/2265, 14-16=-131/2573, 13-14=-172/2074 BOT CHORD

WEBS 3-17=-1169/147, 3-16=-166/656, 4-16=-181/1507, 8-14=-180/1502, 9-14=-163/638, 9-13=-1182/147, 5-19=-3050/375, 7-19=-3050/375, 2-17=-189/2114, 10-13=-186/2114

NOTES-

- 1) 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.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; 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 and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-19, 7-19; Wall dead load (5.0 psf) on member(s).4-16, 8-14
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=268, 12=268
- 11) Girder carries tie-in span(s): 6-0-0 from 9-4-4 to 18-7-12
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 240 lb down and 124 lb up at 9-0-12, and 240 lb down and 124 lb up at 18-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others

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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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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 (pif)

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)





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

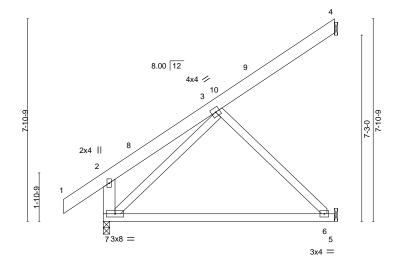
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-N2JBltz?XTME4jAT02FmKS?K?QEWW4sjPwtVo0yk00m 4-6-0 9-<u>0</u>-0 1-6-8 4-6-0

Scale = 1:44.8



9-0-0

BRACING-

TOP CHORD

BOT CHORD

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	-0.24	6-7	>442	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.48	6-7	>218	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TP	12014	Matri	x-MS						Weight: 64 lb	FT = 20%

LUMBER-

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

2x4 SP No.3 *Except* WFBS

2-7: 2x6 SP No.2

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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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

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:50 2022 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-rEtaVD_dlmU5itlfZmm?tfXUjqmVFXPteac3LTyk00l

Structural wood sheathing directly applied or 6-0-0 oc purlins,

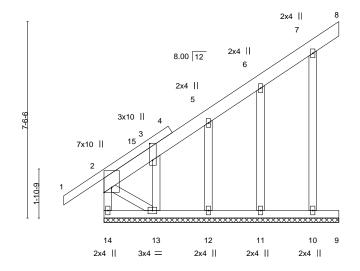
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

except end verticals.

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

-1-6-8 1-6-8 9-0-0

Scale = 1:44.1



9-0-0 9-0-0

BOT CHORD

Plate Offs	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)	l/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/T	PI2014	Matri	x-S						Weight: 75 lb	FT = 20%	

LUMBER-**BRACING-**TOP CHORD

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

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

OTHERS 2x4 SP No.3

(lb) -

All bearings 9-0-0. 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-

REACTIONS.

- 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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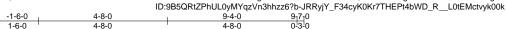


Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:51 2022 Page 1

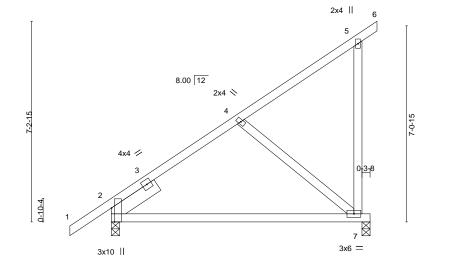
Structural wood sheathing directly applied or 5-8-3 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



Scale = 1:41.6



9-4-0

BRACING-TOP CHORD

BOT CHORD

Plate Offsets	ate Offsets (X,Y) [2:0-6-1,Eage]											
LOADING (p	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20	0.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.15	7-10	>715	240	MT20	244/190
TCDL 7	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	0.0	Code FBC2020/TF	PI2014	Matri	x-MS	, ,					Weight: 56 lb	FT = 20%

LUMBER-

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

SLIDER Left 2x6 SP No.2 1-11-8

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 WFBS 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.

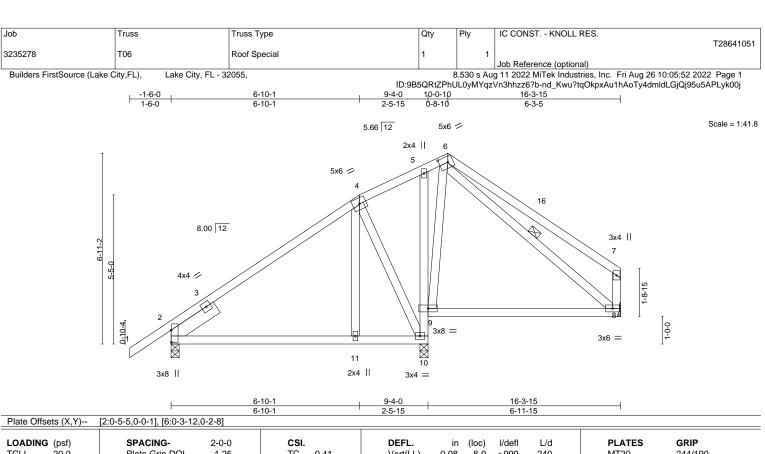
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August 29,2022







	0010 (71, 17	<u></u>										
LOADIN	G (psf)	SPACING- 2-0)-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.	25	TC	0.41	Vert(LL)	-0.08	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.	25	BC	0.41	Vert(CT)	-0.16	8-9	>528	180		
BCLL	0.0 *	Rep Stress Incr YI	ES	WB	0.22	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI201	4	Matri	x-MS						Weight: 107 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

(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-

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

- 2) 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
- 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) 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) 10 except (jt=lb) 2=149, 8=128.

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August 29,2022





Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

except end verticals.

1 Row at midpt

6-0-0 oc bracing: 9-10.

IC CONST. - KNOLL RES. Job Truss Truss Type Qty Ply T28641052 3235278 T07 Roof Special Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:54 2022 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-k?64La18M??XBU2Qobrx1ViAGR6WBL4SZCaGUEyk00h 9-4-0 3-7-15 11-5-12 14-3-15 2-1-12 2-10-3 Scale = 1:40.7 5x6 = 2x4 || 2x4 || 5.66 12 6 3x4 = 5 4-3-12 4x6 / 18 8.00 12 3x4 10 4x6 = 4x4 = 20 19 13 12 3x6 || 2x4 || 3x4 = 4x6 =2-0-2 5-8-1 14-3-15 3-7-15 3-7-15 4-11-15 Plate Offsets (X,Y)--[4:0-5-0,0-2-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP

TCLL 20.0 Plate Grip DOL 1.25 TC 0.15 Vert(LL) -0.01 9-10 >999 240 MT20 244/190 TCDL Vert(CT) 7.0 Lumber DOL 1.25 BC 0.10 -0.01 9-10 >999 180 WB 0.16 **BCLL** 0.0 Rep Stress Incr Horz(CT) 0.00 11 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 115 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WFBS 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-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 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) 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) 9 except (jt=lb) 2=105, 11=326.
- 8) 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.
- 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: 1-4=-54, 4-7=-54, 7-8=-54, 11-14=-20, 9-10=-20

Vert: 6=-78(B) 13=1(B) 12=-27(B) 5=-28(B) 19=-3(B) 20=-54(B)

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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 chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

Chesterfield, MO 63017



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8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:05:55 2022 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-CCgSZw2m7J7OoedcMJMAajFIPrL7wpQcnsKq0gyk00g

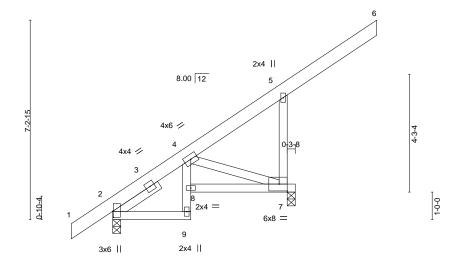
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

-1-6-0 2-10-0 2-10-0 1-6-0

Scale = 1:41.8



2-10-0 2-10-0

Plate Offsets (X,Y)	[2:0-2-10,0-0-5], [7:0-3-8,0-3-0]

LOADIN	VI /	SPACING-	2-0-0	CSI.	0.38	DEFL. Vert(LL)	in	(loc)	l/defl	L/d 240	PLATES MT20	GRIP 244/190
TCLL	20.0	Plate Grip DOL	1.25	10		- ' '	-0.02	9	>999		IVI I ZU	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/TF	PI2014	Matri	x-MP						Weight: 57 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

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.

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August 29,2022



IC CONST. - KNOLL RES. Job Truss Truss Type Qty Ply T28641054 3235278 T09 Jack-Closed Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

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

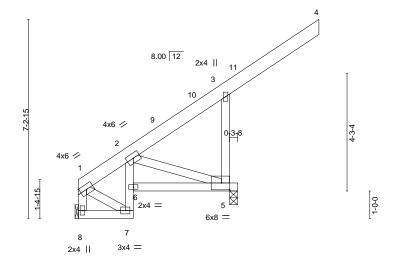
Structural wood sheathing directly applied or 5-9-7 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

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Scale = 1:41.9



1-11-15	5-9-7
1-11-15	3-9-8

1 late of	13013 (71, 1)	[0.0 0 0,0 0 0]										
LOADIN	IG (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 Y	′ES	WB	0.07	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI20	14	Matri	x-MS						Weight: 50 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No 2

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

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

WFBS 2x4 SP No.3

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-

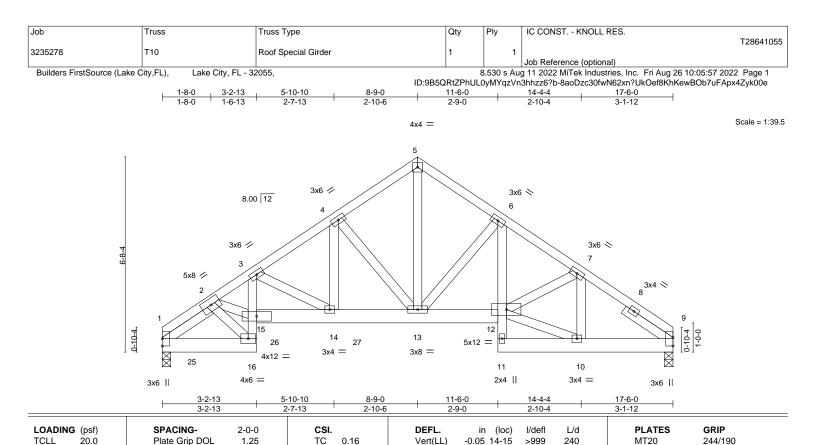
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 8-8-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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

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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





Vert(CT)

Horz(CT)

BOT CHORD

-0.09 14-15

0.06

>999

n/a

180

n/a

Rigid ceiling directly applied or 9-9-11 oc bracing.

Structural wood sheathing directly applied or 4-1-2 oc purlins.

Weight: 131 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD

1.25

NO

вс

WB

Matrix-MS

1.00

0.59

BOT CHORD 2x6 SP No.2 *Except* 3-16,6-11: 2x4 SP No.3

WFBS 2x4 SP No 3

7.0

0.0

10.0

SLIDER Left 2x4 SP No.3 1-11-7, Right 2x4 SP No.3 1-11-8

REACTIONS. (size) 1=0-3-8, 9=0-3-8

Max Horz 1=128(LC 5)

Max Uplift 1=-239(LC 8), 9=-171(LC 9) Max Grav 1=1045(LC 1), 9=763(LC 1)

Lumber DOL

Rep Stress Incr

Code FBC2020/TPI2014

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; 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
- 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)
- 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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August 29,2022

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AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-8aoDzc30fwN62xn?UkOef8KhKewBOb7uFApx4Zyk00e

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 25=-108(B) 26=-283(B) 27=-121(B)





IC CONST. - KNOLL RES. Job Truss Truss Type Qty Ply T28641056 3235278 T11 **ROOF SPECIAL** 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 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-4zvzOl5GAXdpHFxOb8Q6kZP1OSkZsaTBiUl19Ryk00c <u>-1-6-</u>0 8-9-0 11-6-0 14-4-4 17-6-0 2-9-11 2-9-0 2-10-4 Scale = 1:39.7 4x4 = 6 3x6 // 3x6 × 8.00 12 5 3x4 // 3x4 💸 4x4 / 4x4 > 9 10 12 0-10-4 1-0-0 13 3x8 =3x8 3x8 = 15 11 3x6 = 3x6 = 3x8 || 3x8 | 8-9-0 11-6-0 17-6-0 2-9-0 5-11-5 2-9-11 6-0-0 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-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.04 13-14

-0.07 13-14

10

0.05

>999

>999

n/a

240

180

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing.

Structural wood sheathing directly applied or 6-0-0 oc purlins.

MT20

Weight: 121 lb

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

20.0

7.0

0.0

10.0

SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

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)

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

1.25

1.25

YES

ТС

вс

WB

Matrix-MS

0.19

0.43

0.28

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 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) 10=125, 2=158,

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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

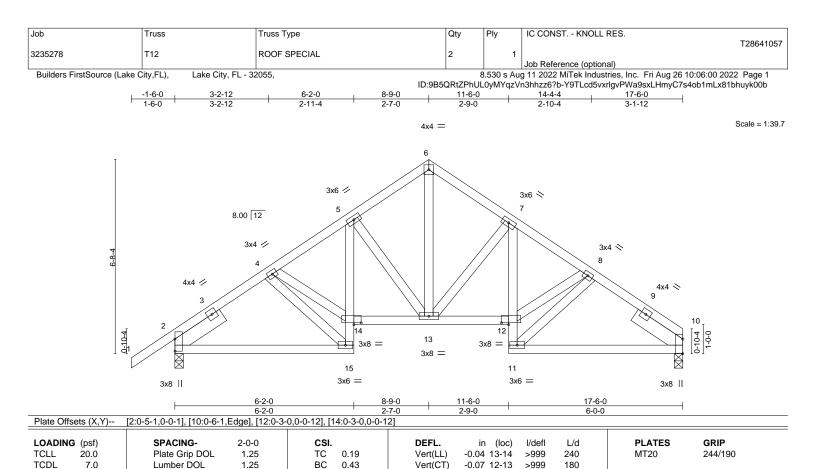


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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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





Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.05

10

n/a

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing.

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Weight: 121 lb

FT = 20%

BCDL 10.0

BCLL

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

0.0

SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

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)

Rep Stress Incr

Code FBC2020/TPI2014

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,

YES

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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

WB

Matrix-MS

0.28

- 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) 10=125, 2=158,

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Chesterfield, MO 63017

Job Truss Truss Type Qty Ply IC CONST. - KNOLL RES. T28641058 3235278 T13 Half Hip Girder 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 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-VYb61J79TS?O8jfyGH_pMB1TBfh?3oDeOSWhmmyk00Z

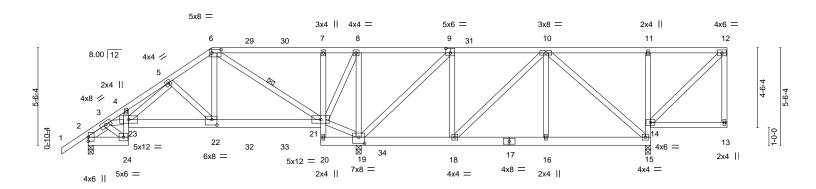
Structural wood sheathing directly applied or 4-5-1 oc purlins,

6-21

Rigid ceiling directly applied or 6-0-0 oc bracing.

1-6-0 1-0-0 2-3-8 4-7-12 13-2-0 20-7-5 25-10-15 31-10-0 15-3-12 2-4-4 6-2-0 2-1-12 5-3-9 5-11-1 4-4-0

Scale = 1:65.2



2-3-8 2-3-8	7-0-0 4-8-8	13-2-0 6-2-0	15-3-12 2-1-12	20-7-5 5-3-9	25-10-15 5-3-9	+	31-10-0 5-11-1		-2-0 4-0
Plate Offsets (X,Y)	[6:0-6-4,0-2-4], [9:0-3-0,	0-3-0], [19:0-4-0,0	0-4-4], [22:0-3-8,0-3-1	2]					
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/	2-0-0 1.25 1.25 NO FPI2014	CSI. TC 0.47 BC 0.77 WB 0.86 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.07 21-22 -0.11 21-22 0.05 15	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 262	GRIP 244/190

BOT CHORD

WEBS

except end verticals.

1 Row at midpt

LUMBER-BRACING-2x4 SP No.2 TOP CHORD

TOP CHORD 2x6 SP No.2 *Except* **BOT CHORD**

4-24,7-20,11-15: 2x4 SP No.3, 13-14: 2x4 SP No.2

WFBS

2x4 SP No.3

SLIDER Left 2x4 SP No.3 1-2-3

REACTIONS. (size) 2=0-3-8, 19=0-3-8, 15=0-3-8

Max Horz 2=191(LC 8)

Max Uplift 2=-297(LC 8), 19=-997(LC 8), 15=-361(LC 23) Max Grav 2=839(LC 1), 19=2480(LC 1), 15=738(LC 20)

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

TOP CHORD 2-3=-281/96, 3-4=-1649/754, 4-5=-1674/801, 5-6=-1105/517, 8-9=-327/751,

9-10=-225/325

BOT CHORD 2-24=-354/604, 23-24=-301/525, 22-23=-571/1061, 21-22=-473/930, 7-21=-263/128,

18-19=-328/223, 14-15=-480/163, 11-14=-303/146

WEBS 3-24=-615/367, 3-23=-648/1193, 5-23=-266/484, 5-22=-258/160, 6-22=-523/1093,

6-21=-1313/628, 19-21=-648/292, 8-21=-566/1204, 9-18=-58/365, 10-18=-354/149,

10-16=0/257, 10-15=-448/322, 8-19=-1271/617, 9-19=-849/269

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=297, 19=997, 15=361.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 46 lb down and 16 lb up at 7-0-0, 46 lb down and 14 lb up at 9-0-12, 46 lb down and 14 lb up at 11-0-12, and 46 lb down and 14 lb up at 13-0-12, and 71 lb down and 48 lb up at 15-0-12 on top chord, and 531 lb down and 339 lb up at 7-0-0, 194 lb down and 119 lb up at 9-0-12, 194 lb down and 119 lb up at 11-0-12, and 194 lb down and 119 lb up at 13-3-12, and 153 lb down and 107 lb up at 15-0-12 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).

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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

LOAD CASE(S) Standard

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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. T28641059 3235278 T14 diH Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:04 2022 Page 1

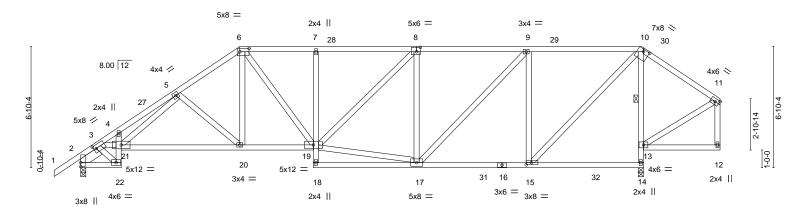
19-0-0

5-10-0

4-2-0

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-RxjsR?9P?4F6N0pLOi0HRc6qYTK1XjFwsm?oqfyk00X 25-4-2 31-8-15 36-2-0 6-4-13 4-5-2

Scale = 1:65.2



2-3-8 2-3-8	9-0-0 6-8-8	13-2-0 4-2-0	19-0-0 5-10-0	25-4-2 6-4-2	31-10-0 6-5-14	36-2-0 4-4-0
Plate Offsets (X,Y)	[2:0-2-12,0-0-1], [3:0-1-11	,0-2-4], [6:0-6-4,0-2-4], [8:0-2-8,0-3-0], [10:0-4-),0-1-8], [15:0-3-8,0-1-8]		
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/TF	1.25 1.25 YES	TC 0.42 BC 0.86	DEFL. in (loc) /ert(LL) -0.15 20-21 /ert(CT) -0.29 20-21 dorz(CT) 0.13 14	l/defl L/d >999 240 >999 180 n/a n/a	PLATES GRIP MT20 244/190 Weight: 248 lb FT = 20%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD

2x4 SP No.2 *Except* **BOT CHORD**

4-22,7-18,10-14: 2x4 SP No.3

WEBS 2x4 SP No.3

SLIDER Left 2x6 SP No.2 1-3-8

1-6-0 1-0-0 2-3-8 1-6-0 1-0-0 1-3-8

3-2-8

REACTIONS. (size) 2=0-3-8, 14=0-3-8

Max Horz 2=181(LC 12) Max Uplift 2=-213(LC 12), 14=-285(LC 8)

Max Grav 2=1316(LC 25), 14=1683(LC 2)

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

TOP CHORD 2-3=-498/88, 3-4=-2773/568, 4-5=-2982/634, 5-6=-1814/402, 6-7=-1735/440,

7-8=-1728/439, 8-9=-1468/374, 9-10=-996/267

BOT CHORD 2-22=-268/965, 21-22=-265/1032, 20-21=-444/1755, 19-20=-355/1474, 7-19=-285/140,

15-17=-273/995, 13-14=-1561/302, 10-13=-1394/303

WEBS 3-22=-1232/327, 3-21=-527/2153, 5-21=-289/1056, 5-20=-440/205, 6-20=-94/536,

6-19=-211/466, 17-19=-373/1367, 8-19=-86/359, 8-17=-571/214, 9-17=-155/700,

9-15=-842/294, 10-15=-354/1534

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 2-0-12, Interior(1) 2-0-12 to 9-0-0, Exterior(2R) 9-0-0 to 14-1-6, Interior(1) 14-1-6 to 31-10-0, Exterior(2E) 31-10-0 to 36-0-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=213, 14=285.

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Structural wood sheathing directly applied or 3-1-9 oc purlins,

10-13

Rigid ceiling directly applied or 3-7-12 oc bracing. Except:

except end verticals.

1 Row at midpt

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

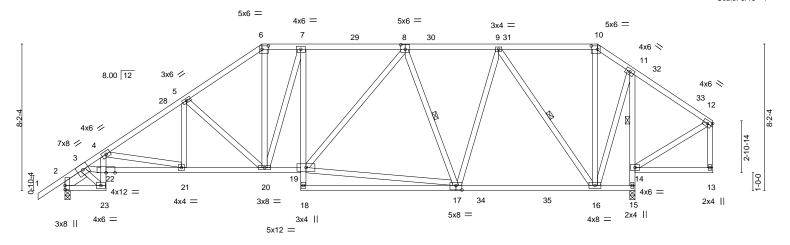


Job Truss Truss Type Qty Ply IC CONST. - KNOLL RES. T28641060 3235278 T15 diH Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:06 2022 Page 1

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

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-NJrdshAfXhVqdKzkV72lW1CB2G?U?dwDJ4UvvXyk00V 1-6-0 1-0-0 2-3-8 1-6-0 1-0-0 1-3-8 6-7-12 13-2-0 2-2-0 19-0-0 24-2-10 29-8-15 31-10-0 4-4-4 5-10-0 5-2-10 5-6-5

Scale: 3/16"=1"



	2-3-8	4-4-4	4-4-4	2-2-0	8	8-8-0	1	7-10-15	i	2-1-2	1-4-0
Plate Offset	ts (X,Y)	[2:0-2-12,0-0-1], [6:0-4-4	,0-2-4], [8:0-3	3-0,0-3-0], [10:	0-4-4,0-2-4],	[17:0-4-0,0-3-0]					
	, ,							.,			
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	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/T	PI2014	Matri	x-MS					Weight: 281	lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

29-8-15

except end verticals.

1 Row at midpt

1 Row at midpt

31-10-0

Structural wood sheathing directly applied or 3-4-12 oc purlins,

8-17, 9-16

Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 11-14

36-2-0

21-10-0

LUMBER-TOP CHORD 2x4 SP No 2

6-7-12

2x4 SP No.2 *Except* **BOT CHORD**

4-23,7-18,11-15: 2x4 SP No.3

WEBS 2x4 SP No.3

2-3-8

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

11-0-0

13-2-0

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-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) 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 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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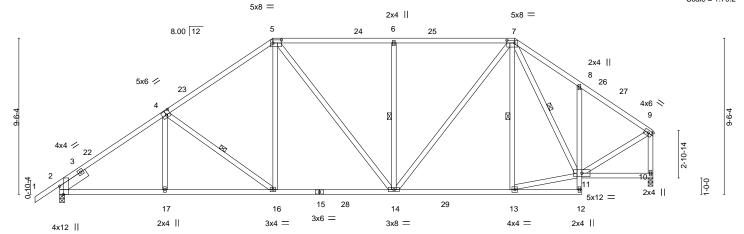
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-JiyNHNCw3llYse76dX5DbSHNc4g0TacWnNz0zQyk00T 20-4-7 31-10-0 6-5-0 7-4-7 6-7-0 4-1-2 4-4-0

Scale = 1:70.2



1	6-5-0	13-0-0	20-4-7	27-8-15	31-10-0	36-2-0
	6-5-0	6-7-0	7-4-7	7-4-7	4-1-2	4-4-0
Plate Offsets (X,Y)-	 [2:0-6-1,Edge], [4:0-3 	-0,0-3-0], [5:0-6-4,0-2-4], [7:	:0-5-12,0-2-0]			

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 0.93	Vert(LL) -0.15 14-16 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.98	Vert(CT) -0.25 16-17 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.54	Horz(CT) 0.06 10 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 253 lb FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

8-12: 2x4 SP No.3 **WEBS** 2x4 SP No.3

SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS.

(size) 2=0-3-8, 10=0-3-8 Max Horz 2=220(LC 12)

Max Uplift 2=-321(LC 12), 10=-264(LC 13) Max Grav 2=1545(LC 2), 10=1492(LC 2)

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

TOP CHORD $2\text{-}4\text{--}2058/415, \, 4\text{-}5\text{--}1740/393, \, 5\text{-}6\text{--}1495/353, \, 6\text{-}7\text{--}1495/353, \, 7\text{-}8\text{--}1292/368, \, 6\text{-}7\text{--}1495/353, \, 7\text{-}8\text{--}1292/368, \, 7\text{-}8\text{--}1292/368, \, 7\text{-}8\text{--}1292/368, \, 7\text{-}8\text{--}1292/368, \, 7\text{-}8\text{--}1292/368, \, 7\text{--}8\text{--}1292/368, \, 7\text{--}8\text{--}8\text{--}8\text{--}8\text{--}8\text{--}8\text{--}8\text{--}8\text{--}8\text{--}8\text{--}8\text{--}8\text{--}8\text{--}8\text{--}8\text{--}8\text{--}8\text{--}8\text{$

8-9=-1301/252, 9-10=-1411/274

BOT CHORD 2-17=-448/1664, 16-17=-448/1663, 14-16=-277/1389, 13-14=-140/1073, 8-11=-260/183 **WEBS**

4-16=-429/211, 5-16=-82/560, 5-14=-179/282, 6-14=-460/227, 7-14=-207/715,

11-13=-136/1077, 9-11=-175/1197

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 2-1-6, Interior(1) 2-1-6 to 13-0-0, Exterior(2R) 13-0-0 to 18-1-6, Interior(1) 18-1-6 to 27-8-15, Exterior(2R) 27-8-15 to 32-10-5, Interior(1) 32-10-5 to 36-0-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=321, 10=264.

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August 29,2022



Structural wood sheathing directly applied, except end verticals.

4-16, 6-14, 7-13, 7-11

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

2-2-0 oc bracing: 2-17

1 Row at midpt

8-10-3 oc bracing: 16-17.

IC CONST. - KNOLL RES. Job Truss Truss Type Qty Ply T28641062 3235278 T17 Roof Special Girder 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 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-G447i2DAbw0G5xHVky7hgtMq3uUExUIpEhS72lyk00R 6-6-0 1-8-0 12-0-0 18-4-0 23-8-7 29-0-15 33-8-0 4-10-0 5-6-0 6-4-0 5-10-0 Scale = 1:69.7 5x8 = 2x4 || 5x8 = 7 6 8.00 12 3x6 > 9 4x8 / 5 4x6 <> 4.00 12 10 5x6 = 5x6 =3 1-11-9 7-4-4 11 **⊠** 17 23 14 18 16 15 12 19 13 2x4 \\ 3x6 =2x4 || 5x6 =3x6 =3x8 = 3x4 =3x4 = 3x4 =3x6 =12-0-0 14-9-12 18-4-0 23-8-7 29-0-15 33-8-0 39-6-0 5-4-7 4-10-0 7-2-0 2-9-12 4-7-2 5-10-0 3-6-4 5-4-7 Plate Offsets (X,Y)--[6:0-6-4,0-2-4], [8:0-6-4,0-2-4], [18:0-2-4,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.48 Vert(LL) -0.07 18-19 >999 240 MT20 244/190

LUMBER-

TCDL

BCLL

BCDL

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

BOT CHORD 2x4 SP No 3 WFBS

7.0

0.0

10.0

BRACING-

Vert(CT)

Horz(CT)

TOP CHORD Structural wood sheathing directly applied or 5-10-11 oc purlins,

Weight: 275 lb

FT = 20%

180

n/a

except end verticals.

-0.15 18-19

11

0.02

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 17-18,16-17.

>999

n/a

WEBS 1 Row at midpt 5-17, 6-16, 7-15, 8-15

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 11=0-3-8

Max Horz 2=219(LC 5)

Max Uplift 2=-236(LC 4), 17=-370(LC 5), 11=-167(LC 28) Max Grav 2=531(LC 2), 17=1810(LC 2), 11=951(LC 22)

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

TOP CHORD 2-3=-917/299, 3-4=-856/301, 5-6=-340/147, 6-7=-553/191, 7-8=-553/191, 8-9=-784/223,

1.25

BC

WB

Matrix-MS

0.49

0.53

9-10=-869/173, 10-11=-859/180

Lumber DOL

Rep Stress Incr

Code FBC2020/TPI2014

BOT CHORD $2\text{-}19\text{=-}312/843,\ 18\text{-}19\text{=-}243/781,\ 16\text{-}17\text{=-}890/238,\ 13\text{-}15\text{=-}40/600,\ 12\text{-}13\text{=-}74/671}$ WEBS 4-18=-789/222, 5-18=-125/411, 5-17=-1934/417, 5-16=-217/1388, 6-16=-720/171,

6-15=-178/693, 7-15=-334/168, 8-13=-100/373, 10-12=-65/701

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=236, 17=370, 11=167,
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 21 lb down and 21 lb up at 4-10-0 on top chord, and 50 lb down and 18 lb up at 4-10-0 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, 3-4=-54, 4-6=-54, 6-8=-54, 8-10=-54, 11-20=-20

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AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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),

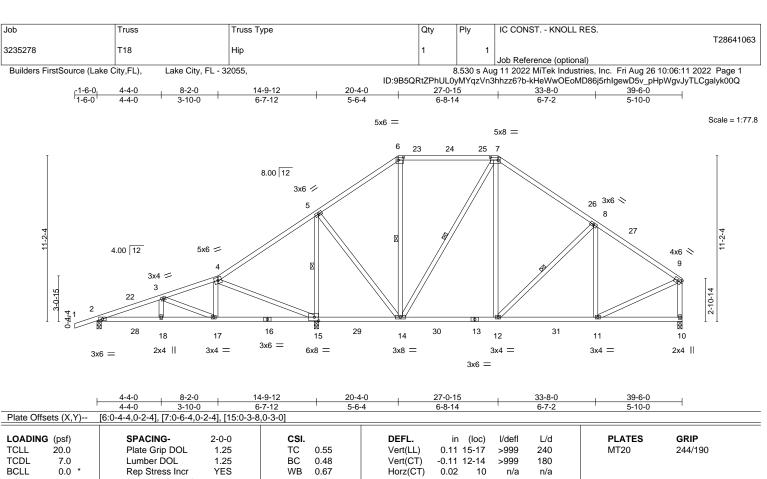
Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:10 2022 Page 2 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-G447i2DAbw0G5xHVky7hgtMq3uUExUIpEhS72lyk00R

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







LOADING	i (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	0.11 1	15-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.48	Vert(CT)	-0.11 1	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/TI	PI2014	Matri	ix-MS						Weight: 258 lb	FT = 20%
				I		1					1	

LUMBER-

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

2x4 SP No.3 *Except* WFBS

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

 $3-17=-425/398,\ 4-17=-450/356,\ 4-15=-662/689,\ 5-15=-1424/722,\ 5-14=-359/938,\ 4-17=-425/398,\ 4-17=-450/356,\ 4-15=-662/689,\ 5-15=-1424/722,\ 5-14=-359/938,\ 4-17=-450/356,\ 4-15=-662/689,\ 5-15=-1424/722,\ 5-14=-359/938,\ 4-17=-450/356,\ 4-15=-662/689,\ 5-15=-1424/722,\ 5-14=-359/938,\ 4-17=-450/356,\ 4-15=-662/689,\ 5-15=-1424/722,\ 5-14=-359/938,\ 4-17=-450/356,\ 4-15=-662/689,\ 5-15=-1424/722,\ 5-14=-359/938,\ 4-15=-662/689,\ 5-15=-1424/722,\ 5-14=-359/938,\ 4-15=-662/689,\ 5-15=-1424/722,\ 5-14=-359/938,\ 4-15=-662/689,\ 5-15=-1424/722,\ 5-14=-359/938,\ 4-15=-662/689,\ 5-15=-1424/722,\ 5-14=-359/938,\ 4-15=-662/689,\ 5-15=-1424/722,\ 5-14=-359/938,\ 5-15=-1424/722,\ 5-14=-359/938,\ 5-15=-1424/722,\ 5-14=-359/938,\ 5-15=-1424/722,\ 5-14=-359/938,\ 5-15=-1424/722,\ 5-14=-359/938,\ 5-15=-1424/722,\ 5-14=-359/938,\ 5-15=-1424/722,\ 5-14=-359/938,\ 5-15=-1424/722,\ 5-14=-359/938,\ 5-15=-1424/722,\ 5-14=-1$

7-14=-498/259, 7-12=-108/511, 8-12=-317/202, 9-11=-97/708

NOTES-

WEBS

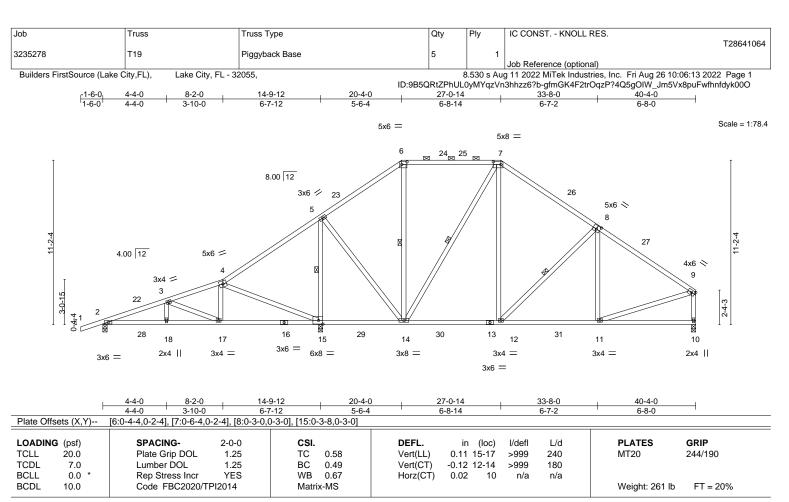
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-5-6, Interior(1) 2-5-6 to 20-4-0, Exterior(2R) 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=237, 15=424, 10=188.

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





LUMBER-TOP CHORD

2x4 SP No.2 2x4 SP No.2

BOT CHORD 2x4 SP No.3 *Except* WFBS

7-14: 2x4 SP No.2

BRACING-

WEBS

TOP CHORD Structural wood sheathing directly applied or 5-4-13 oc purlins,

1 Row at midpt

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.

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

 $3-17=-426/397,\ 4-17=-450/356,\ 4-15=-657/690,\ 5-15=-1470/703,\ 5-14=-352/976,$

7-14=-539/252, 7-12=-117/573, 8-12=-412/213, 9-11=-66/741

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 2-6-6, 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=239, 15=391, 10=177.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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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



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



Chesterfield, MO 63017

IC CONST. - KNOLL RES. Job Truss Truss Type Qty Ply T28641065 3235278 T20 Piggyback Base Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:14 2022 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-8sJeYQGhe8WhaZaGzoBdrjXUuVvGtD1P9JQKB4yk00N 14-11-8 20-4-0 27-0-14 36-0-0 40-4-0 32-0-0 3-10-0 6-9-8 5-4-8 6-8-14 4-0-0 Scale = 1:74.5 5x6 = 5x6 = 22 🖂 23 8.00 12 5x6 <> 24 3x6 🖊 5 3x4 < 9 5x6 = 4.00 12 2x4 || 5x8 II 10 3x4 = 5-2-11 3 12 14 4x4 > 4x8 = Ø 5.00 12 25 11 17 16 15 4x6 = 6x8 = 4x4 < 2x4 || 4x4 = 14-8-0 14-₁1₁1-8 20-4-0 27-6-0 33-8-0 40-4-0 0-3-8 6-8-0 4-4-0 3-10-0 6-6-0 5-4-8 6-2-0 Plate Offsets (X,Y)--[2:0-3-6,0-0-11], [6:0-4-4,0-2-4], [7:0-3-12,0-2-0], [8:0-3-0,0-3-0], [15:0-5-4,0-4-4]

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 0.62	Vert(LL) -0.06 12-13 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.23	Vert(CT) -0.11 12-13 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.87	Horz(CT) 0.10 11 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 278 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No 2 2x6 SP No 2

BOT CHORD 2x4 SP No 3 WFBS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-4-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.

BOT CHORD WEBS

Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 5-15, 6-14, 7-14

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 11=0-3-8

Max Horz 2=254(LC 9)

Max Uplift 2=-232(LC 8), 15=-403(LC 12), 11=-164(LC 13) Max Grav 2=355(LC 23), 15=2026(LC 1), 11=766(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-381/513. 3-4=-64/376. 4-5=-528/910. 7-8=-949/134. 8-9=-1171/263

BOT CHORD 2-17=-529/346, 16-17=-529/346, 15-16=-358/131, 14-15=-775/591, 13-14=-13/737,

12-13=-75/1034, 11-12=-157/903

WEBS 3-16=-419/394, 4-16=-462/356, 4-15=-531/689, 5-15=-1441/570, 5-14=-252/949, 6-14=-301/226, 7-14=-908/177, 7-13=-30/883, 8-13=-310/245, 9-11=-1189/200

NOTES-

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

- 2) 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 2-6-6, 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=232, 15=403, 11=164.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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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



Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WEBS

-0.20 12-13

11

1 Row at midpt

0.16

>999

n/a

180

n/a

Rigid ceiling directly applied or 6-0-0 oc bracing.

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.

7-14

Weight: 555 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

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

BOT CHORD 2x4 SP No 3 WFBS

7.0

0.0

10.0

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 11=0-3-8 Max Horz 2=-675(LC 9)

Lumber DOL

Rep Stress Incr

Code FBC2020/TPI2014

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,

1.25

BC

WB

Matrix-MS

0.47

0.70

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-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

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.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; 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
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) 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.
- 10) 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,
- 11) 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
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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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

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



	Job	Truss	Truss Type	Qty	Ply	IC CONST KNOLL RES.
						T28641066
	3235278	T21	Piggyback Base Girder	1	2	
L						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?nARJZx3uGR0JrfwlKTM91lisA4dJrrHf_oOyk00K

NOTES-

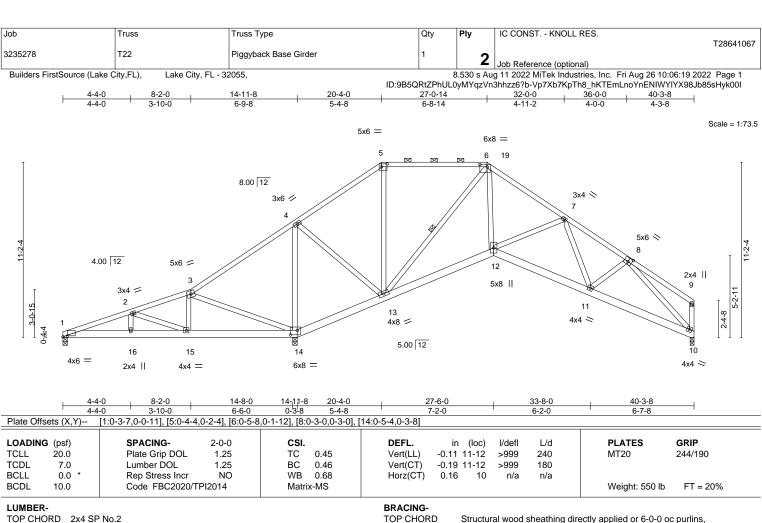
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 675 lb down and 210 lb up at 27-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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)



BOT CHORD

WEBS

2x6 SP No 2

BOT CHORD 2x4 SP No 3 WFBS

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,

 $6\textbf{-}13\textbf{=-}3046/344,\ 6\textbf{-}12\textbf{=-}384/3502,\ 7\textbf{-}12\textbf{=-}1284/691,\ 7\textbf{-}11\textbf{=-}454/650,\ 8\textbf{-}11\textbf{=-}23/655,\ 7\textbf{-}12\textbf{=-}1284/691,\ 7\textbf{-}12\textbf{=-}1284/691,\ 7\textbf{-}12\textbf{=-}1284/691,\ 7\textbf{-}12\textbf{=-}1284/691,\ 7\textbf{-}1284/691,\ 7\textbf{-}1284/69$

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

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.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

- 4) Wind: ASCE 7-16; 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
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) 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.
- 10) 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,
- 11) 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
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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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

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

MARNING - Verity design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-47.3 (ev. 5/19/20/20 BEPORE USE.)

Design valid for use only with MITER® 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



except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.

6-13

Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

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 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-Vp7Xb7KpTh8_hKTEmLnoYnENIWYIYX98Jb85sHyk00I

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)



IC CONST. - KNOLL RES. Job Truss Truss Type Qty Ply T28641068 3235278 T23 diH 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_GrlU1QK3I14_nWqwtHHydHXFteOjyk00H

27-6-0

31-0-14

3-6-14

31-0-14

3-6-14

except end verticals.

Structural wood sheathing directly applied or 2-8-15 oc purlins,

Rigid ceiling directly applied or 5-1-10 oc bracing.

35-6-0

40-4-0

4-10-0

4-10-0

21-11-0

5-7-0

16-4-0

Scale = 1:71.0

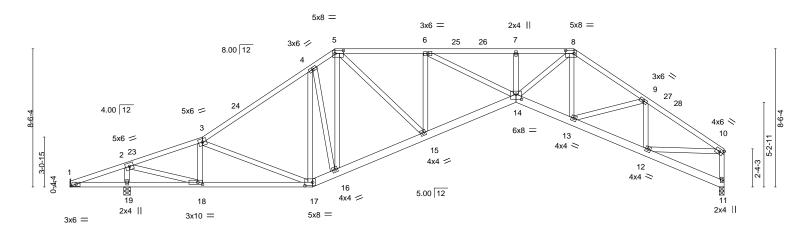


Plate Offs	Plate Offsets (X,Y) [5:0-6-4,0-2-4], [8:0-6-4,0-2-4], [14:0-4-0,0-3-12], [17:0-5-12,0-2-8], [18:0-3-8,0-1-8]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.24 \ 14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	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/T	PI2014	Matri	x-MS	, ,				Weight: 269 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

21-11-0

5-7-0

1-4-8

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

REACTIONS. (size) 1=Mechanical, 11=0-3-8, 19=0-4-15

4-7-12

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

 $6\text{-}7\text{=-}3661/1075, \, 7\text{-}8\text{=-}3661/1075, \, 8\text{-}9\text{=-}2541/755, \, 9\text{-}10\text{=-}2058/597, \, 10\text{-}11\text{=-}1266/390}$

1-19=-1197/319, 18-19=-1197/319, 17-18=-428/1477, 16-17=-394/1475, 15-16=-351/1495,

14-11-8

6-9-8

14-11-8

6-9-8

BOT CHORD 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-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) 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.
- 9) 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.

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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. T28641069 3235278 T24 Hip 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 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-vOogD9MimcWZYnBoRULVAPssijboluOa?ZMITcyk00F 14-11-8 18-4-0 29-0-14 , 34-6-11 40-4-0 3-8-10 6-9-8 Scale = 1:70.9 5x8 = 3x4 =5x8 = 5 6 24 25 8.00 12 3x6 / 3x6 × 23 4.00 12 5x12 = 13 4x6 < 12 9 5x8 || 2x4

4x4 <

except end verticals.

6-0-0 oc bracing: 1-18.

11 4x4 <

Structural wood sheathing directly applied or 3-5-4 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

Ø

10

2x4 ||

1	5-5-7	8-2-0	14-11-8	18-4-0	23-8-7	27-6-0	29-0-14	34-6-11	40-4-0
	5-5-7	2-8-9	6-9-8	3-4-8	5-4-7	3-9-9	1-6-14	5-5-13	5-9-5
Plate Offsets	(X,Y) [5:0-6-4	-8]							

4x4 =

16

5x8 =

5 00 12

BRACING-

TOP CHORD

BOT CHORD

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 0.57	Vert(LL) -0.14 13 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.44	Vert(CT) -0.25 13 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.65	Horz(CT) 0.19 10 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 271 lb FT = 20%

LUMBER-TOP CHORD 2x4 SP No 2

2x4 ||

2x6 SP No.2 *Except* **BOT CHORD**

1-16: 2x4 SP No.2 WFBS 2x4 SP No.3

REACTIONS. (size) 1=Mechanical, 10=0-3-8, 18=0-3-13

Max Horz 1=215(LC 9)

27 18

4x4 =

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

3-0-15

0-4-4

3x6 =

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

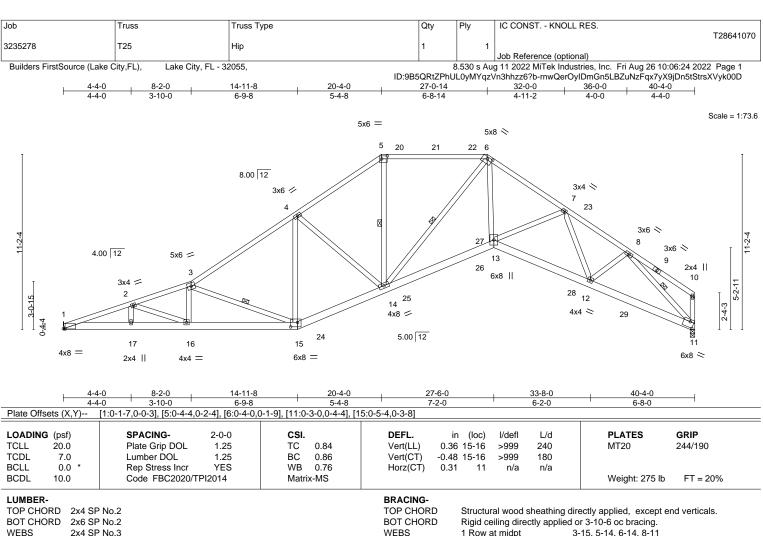
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-0-6, Interior(1) 4-0-6 to 18-4-0, Exterior(2R) 18-4-0 to 24-0-7, Interior(1) 24-0-7 to 29-0-14, Exterior(2R) 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.
- 8) 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.
- 9) 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 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.

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August 29,2022





2x4 SP No 3

1=Mechanical, 11=0-3-8 (size)

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.

1-2=-4113/3462, 2-3=-3808/3197, 3-4=-2452/1911, 4-5=-2212/1710, 5-6=-1773/1490, TOP CHORD

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

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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) 0-0-12 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) 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.
- 9) 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,

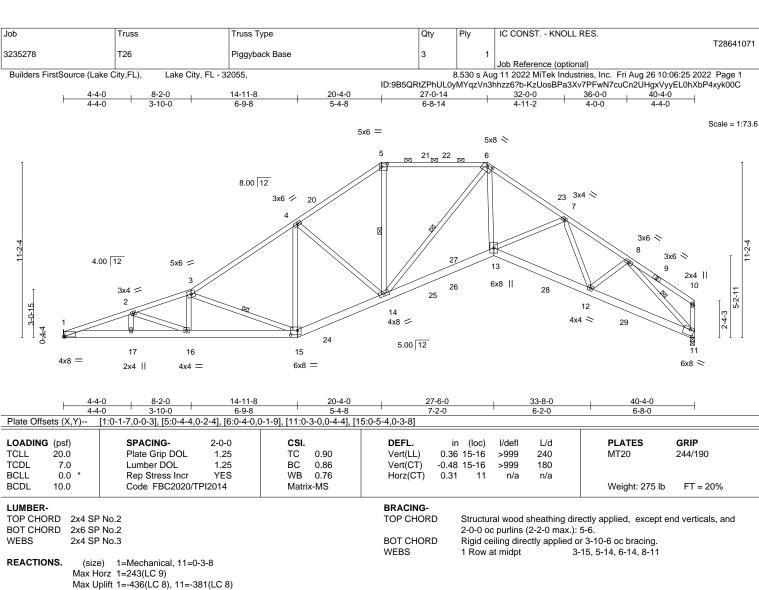
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August 29,2022







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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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) 0-0-12 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) 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.
- 9) 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
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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August 29,2022

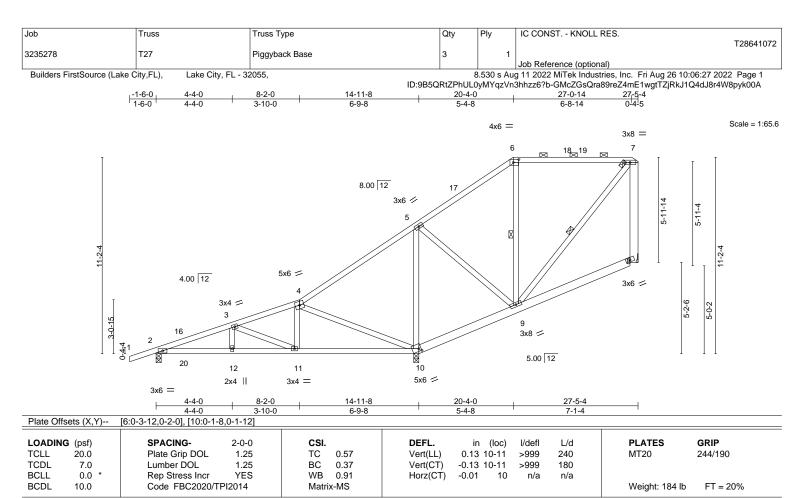
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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 chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Chesterfield, MO 63017



BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

(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-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=206, 10=373.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Structural wood sheathing directly applied or 6-0-0 oc purlins,

6-9, 7-9

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.

Rigid ceiling directly applied or 6-0-0 oc bracing.

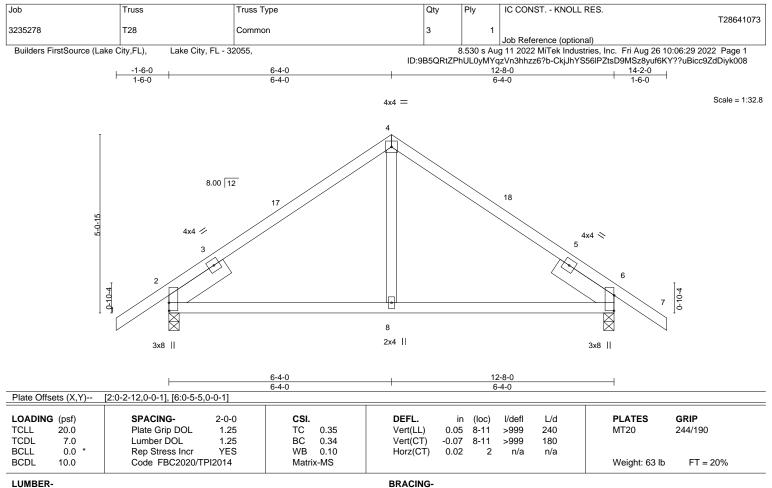
1 Row at midpt

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







TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No 3 WFBS

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-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 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) 2=123, 6=123.

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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



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

IC CONST. - KNOLL RES. Job Truss Truss Type Qty Ply T28641074 3235278 T28G Common Supported Gable 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 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-gxHhvuTjt3XQV0oLv9UNU5BLbyPydfzlqoIAl8yk007 6-4-0 12-8-0 14-2-0 1-6-0 1-6-0 Scale: 3/8"=1 5x6 = 6 ₇ 2x4 || 2x4 || 8.00 12 3x10 || 9 3x10 || 4 3 18 10 3x8 || 3x8 II 16 15 13 2x4 | 2x4 || 2x4 || 2x4 | 2x4 II 12-8-0 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]

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	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/T	PI2014	Matri	x-S						Weight: 87 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

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

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-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 2, 10, 15, 16, 13,

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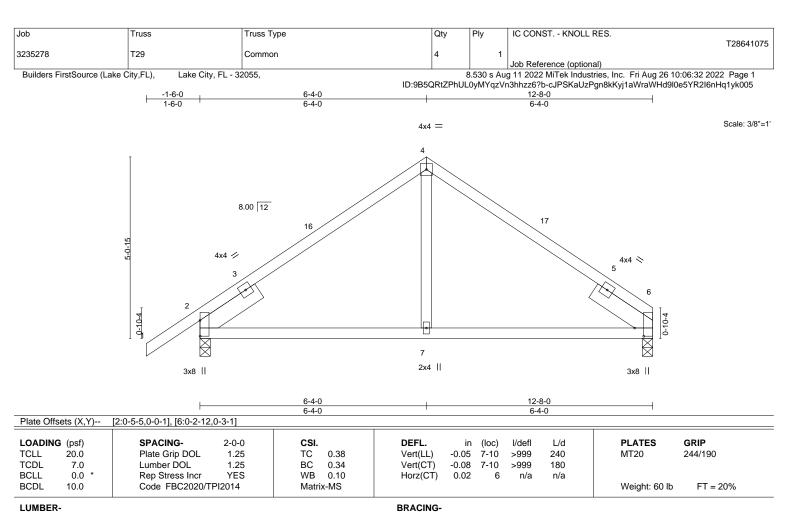
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

August 29,2022



TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No 3 WFBS

SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 6=0-3-8, 2=0-3-8 Max Horz 2=108(LC 11) Max Uplift 6=-90(LC 13), 2=-124(LC 12) Max Grav 6=464(LC 1), 2=554(LC 1)

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

TOP CHORD 2-4=-447/165, 4-6=-426/167 **BOT CHORD** 2-7=-49/350, 6-7=-49/350

WEBS 4-7=-15/264

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 12-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) 6 except (jt=lb) 2=124.

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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

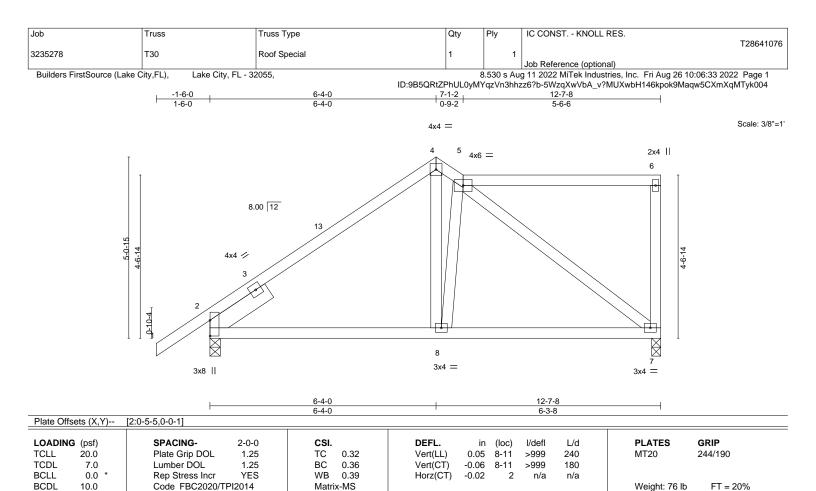
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Chesterfield, MO 63017

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

WFBS SLIDER Left 2x6 SP No.2 1-11-8

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 2-8=-135/331, 7-8=-137/353 BOT CHORD **WEBS** 4-8=-45/323, 5-7=-429/170

NOTES-

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

- 2) 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) 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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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

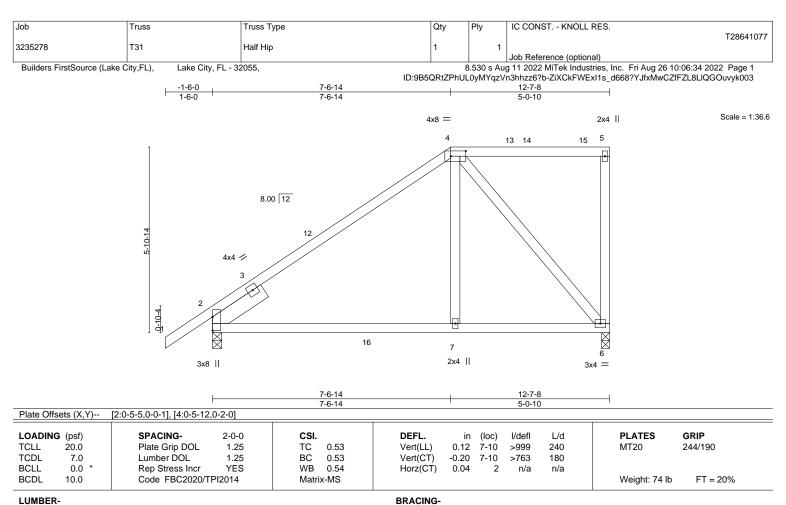
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



TOP CHORD

BOT CHORD

LUMBER-

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

WFBS SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS.

(size) 2=0-3-8, 6=0-3-0

Max Horz 2=204(LC 12)

Max Uplift 2=-112(LC 12), 6=-133(LC 12) Max Grav 2=612(LC 19), 6=510(LC 2)

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

TOP CHORD 2-4=-413/75

BOT CHORD 2-7=-123/341, 6-7=-123/350 **WEBS** 4-7=-3/347, 4-6=-532/187

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 7-6-14, Exterior(2R) 7-6-14 to 11-9-13, Interior(1) 11-9-13 to 12-5-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=112, 6=133.

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Structural wood sheathing directly applied or 6-0-0 oc purlins,

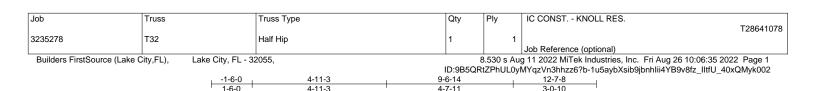
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

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August 29,2022





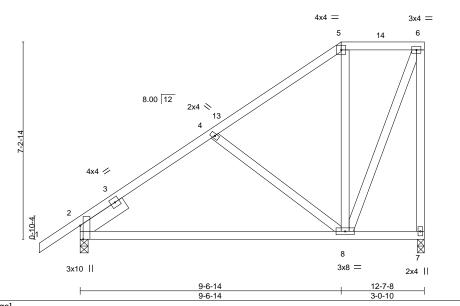


Plate Offsets (X,Y)--[2:0-6-1,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.25 ТС 0.36 Vert(LL) -0.15 8-11 >999 240 MT20 244/190 TCDL вс Vert(CT) 7.0 Lumber DOL 1.25 0.60 -0.29 8-11 >509 180 WB **BCLL** 0.0 Rep Stress Incr YES 0.20 Horz(CT) 0.02 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 87 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No 3 WFBS

SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS. (size) 7=0-3-0, 2=0-3-8

Max Horz 2=250(LC 12)

Max Uplift 7=-169(LC 12), 2=-91(LC 12) Max Grav 7=457(LC 1), 2=548(LC 1)

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

TOP CHORD 2-4=-743/66, 4-5=-279/28, 6-7=-472/182

BOT CHORD 2-8=-211/377

WEBS 4-8=-276/186, 6-8=-169/436

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 9-6-14, Exterior(2E) 9-6-14 to 12-5-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=169.

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Scale = 1:42.3

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



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

IC CONST. - KNOLL RES. Job Truss Truss Type Qty Ply T28641079 3235278 T33 Half Hip Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:36 2022 Page 1

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

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-V5fy9xXUTvHZDxGVGQbokMRHrMLS1GZeDklVzoyk001 -1-6-0 1-6-0 11-6-14 6-1-0

Scale = 1:53.8

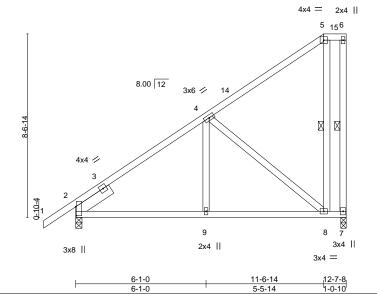


Plate Offsets (X,Y)	[2:0-5-1,0-0-5]										
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	0.07	8-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.14	8-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	-0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TP	I2014	Matri	x-MS						Weight: 89 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WFBS SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS. (size) 7=0-3-0, 2=0-3-8

Max Horz 2=296(LC 12)

Max Uplift 7=-211(LC 12), 2=-64(LC 12) Max Grav 7=457(LC 1), 2=548(LC 1)

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

TOP CHORD 2-4=-384/14

BOT CHORD 2-9=-201/392, 8-9=-201/392 **WEBS** 4-9=-11/282, 4-8=-478/247

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 11-6-14, Exterior(2E) 11-6-14 to 12-5-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=211.

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Structural wood sheathing directly applied or 6-0-0 oc purlins,

6-7, 5-8

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Row at midpt

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







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

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-zHCLNHY6EDPQr5rhq761Ha_T5mjEmicnSOV2VEyk000 6-1-0 6-1-0

Scale = 1:52.1

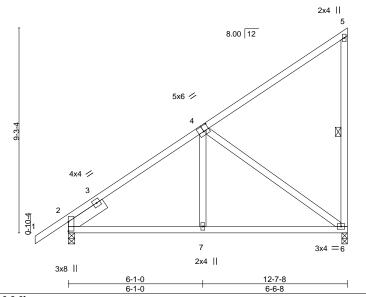


Plate Off	Plate Offsets (X,Y) [2:0-5-1,0-0-1], [4:0-3-0,0-3-0]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.05	6-7	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	ВС	0.38	Vert(CT)	-0.10	6-7	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	-0.01	2	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS						Weight: 79 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No 3 WFBS 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

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Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Row at midpt

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. T28641081 3235278 T35 Monopitch Girder 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_ 8-3-13 4-3-11

Scale = 1:52.1

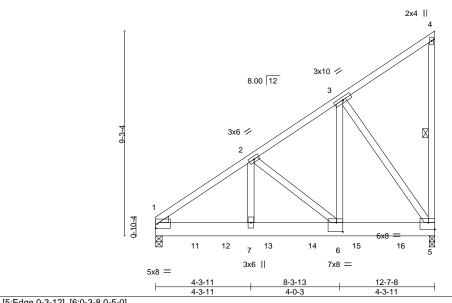


Plate Oil	ate Offsets (A, Y) [5:Edge,0-3-12], [6:0-3-8,0-5-0]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.04	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.07	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-MS						Weight: 209 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x8 SP 2400F 2.0E

2x4 SP No.3 WFBS

WEDGE

Left: 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.

WEBS 1 Row at midpt

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-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

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.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) 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
- 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=704. 5=1001.
- 8) 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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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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AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:39 2022 Page 2 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-vgK5ozaMmqf84P_4xY8VM?3rTaREEa24vi_9Z7yk00_

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)



Job Truss Truss Type Qty Ply IC CONST. - KNOLL RES. T28641082 3235278 T36 Hip Girder 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 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-s2SrCfbdHRwsKi8S3zAzRQ99CN03iSbNM0TGd?yk0?y

19-5-8

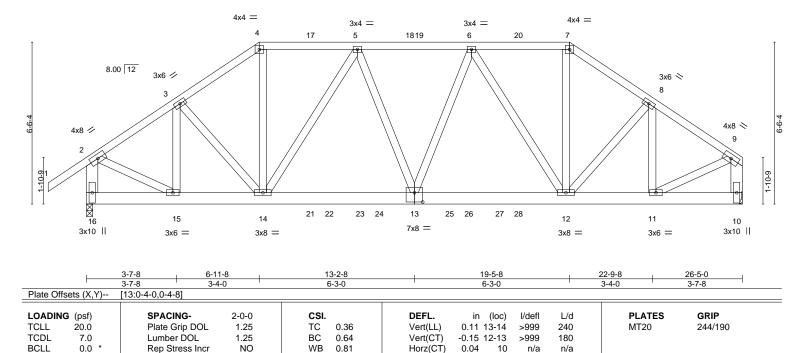
10-10-15

3-11-7

6-11-8

3-4-0

Scale = 1:46.4



BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

10.0

BCDL

2x4 SP No.2 2x6 SP No 2

BOT CHORD 2x4 SP No.3 *Except* WFBS

2-16,9-10: 2x6 SP No.2

REACTIONS. (size) 16=0-3-0, 10=Mechanical Max Horz 16=117(LC 5)

Max Uplift 16=-980(LC 8), 10=-946(LC 9) Max Grav 16=2083(LC 33), 10=1990(LC 34)

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

Code FBC2020/TPI2014

TOP CHORD 2-3=-1959/978, 3-4=-2342/1259, 4-5=-1944/1089, 5-6=-2505/1350, 6-7=-1949/1092,

7-8=-2350/1264, 8-9=-1969/977, 2-16=-1982/966, 9-10=-1887/931 BOT CHORD 14-15=-832/1651, 13-14=-1219/2380, 12-13=-1196/2365, 11-12=-768/1593

WEBS 3-15=-725/418, 3-14=-403/554, 4-14=-591/1104, 5-14=-830/462, 5-13=-244/503,

6-13=-244/497, 6-12=-822/463, 7-12=-592/1112, 8-12=-408/541, 8-11=-726/429,

2-15=-789/1681, 9-11=-811/1680

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 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.

Matrix-MS

- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=980, 10=946.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 71 lb down and 50 lb up at 6-11-8, 71 lb down and 47 lb up at 9-0-4, 71 lb down and 47 lb up at 11-0-4, 71 lb down and 41 lb up at 13-0-4, 71 lb down and 41 lb up at 13-4-12, 71 lb down and 47 lb up at 15-4-12, and 71 lb down and 47 lb up at 17-4-12, and 71 lb down and 50 lb up at 19-5-8 on top chord, and 399 lb down and 372 lb up at 6-11-8, 149 lb down and 116 lb up at 9-0-4, 149 lb down and 116 lb up at 11-0-4, 149 lb down and 116 lb up at 13-0-4, 149 lb down and 116 lb up at 13-4-12, 149 lb down and 116 lb up at 15-4-12, and 149 lb down and 116 lb up at 17-4-12, and 399 lb down and 372 lb up at 19-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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August 29,2022

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Weight: 206 lb

Structural wood sheathing directly applied or 3-6-10 oc purlins,

Rigid ceiling directly applied or 6-7-7 oc bracing.

except end verticals.

FT = 20%

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

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:41 2022 Page 2 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-s2SrCfbdHRwsKi8S3zAzRQ99CN03iSbNM0TGd?yk0?y

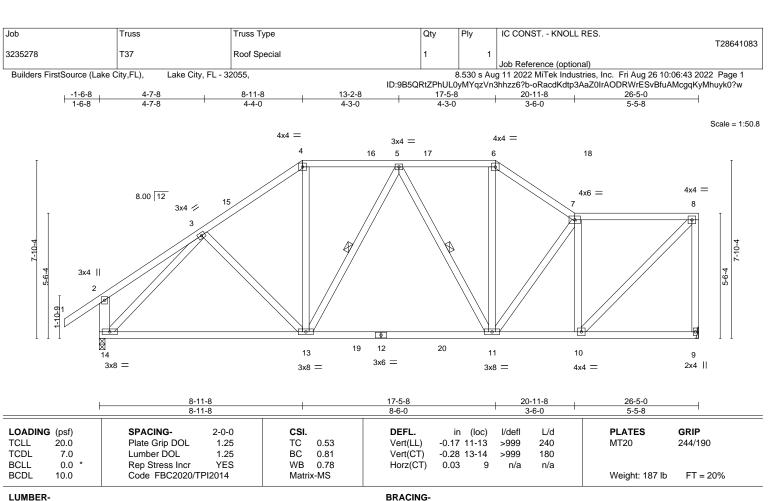
LOAD CASE(S) Standard

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) 26=-13 28=-138(F)





TOP CHORD

BOT CHORD

WFBS

LUMBER-

REACTIONS.

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

2x4 SP No.3 *Except* WFBS

2-14: 2x6 SP No.2

(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.

3-4=-1090/239, 4-5=-865/234, 5-6=-855/218, 6-7=-1063/231, 7-8=-853/162, TOP CHORD

8-9=-964/209 2-14=-284/133

BOT CHORD 13-14=-246/823, 11-13=-187/915, 10-11=-168/873

4-13=-43/398, 6-11=-60/408, 7-10=-725/189, 8-10=-227/1191, 3-14=-1051/170 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=178, 14=188.

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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



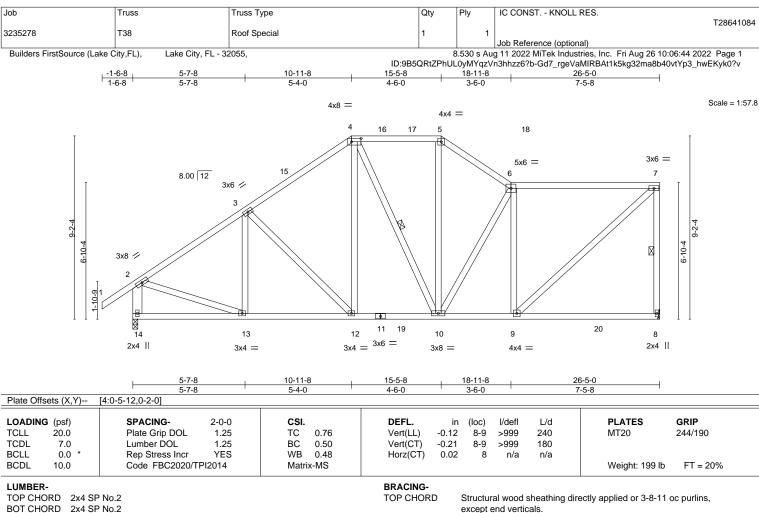
Structural wood sheathing directly applied or 5-6-6 oc purlins,

5-13. 5-11

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

1 Row at midpt



BOT CHORD

WEBS

Rigid ceiling directly applied or 10-0-0 oc bracing.

7-8, 4-10

1 Row at midpt

2x4 SP No.2

2x4 SP No.3 *Except* WFBS

2-14: 2x6 SP No.2

(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.

2-3=-1120/205, 3-4=-990/236, 4-5=-759/223, 5-6=-958/241, 6-7=-870/175, TOP CHORD

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-

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=201, 14=195.

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

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

Structural wood sheathing directly applied or 6-0-0 oc purlins,

2-11

6-7, 4-9, 5-7

Rigid ceiling directly applied or 2-2-0 oc bracing. Except:

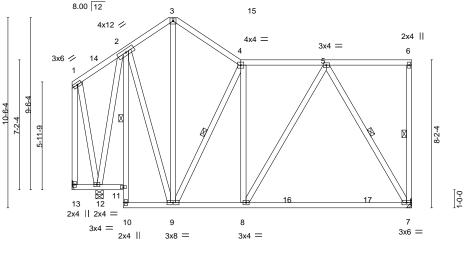
except end verticals

1 Row at midpt

1 Row at midpt



Scale: 3/16"=1"



. 1-6-4 2-10-0.	5-7-0	9-4-0	18-9-8	
1-6-4 1-3-12	2-9-0	3-9-0	9-5-8	\dashv
				_

LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58	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/TP	PI2014	Matri	x-MS						Weight: 188 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

WFBS 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

WFBS 2-12=-622/119, 2-9=-64/334, 4-9=-507/110, 5-8=-21/287, 5-7=-537/152

NOTES-

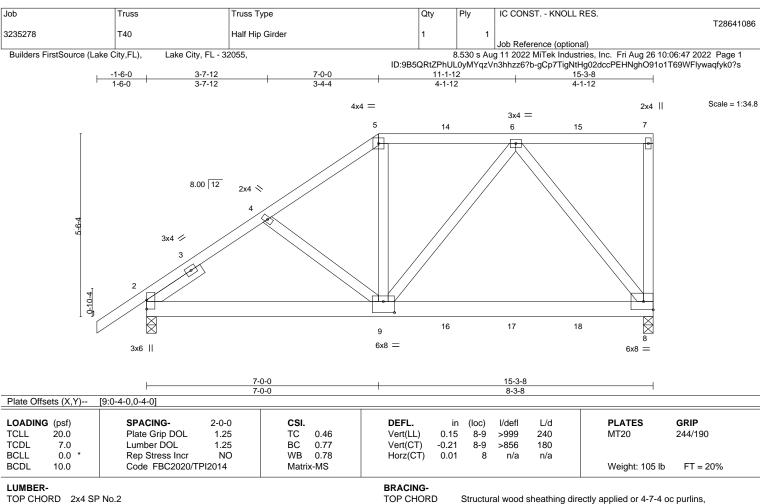
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 2-11-12, Interior(1) 2-11-12 to 5-7-0, 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 7=155, 12=188.

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BOT CHORD

except end verticals.

Rigid ceiling directly applied or 9-3-6 oc bracing.

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

SLIDER Left 2x4 SP No.3 1-11-8

REACTIONS.

WERS

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=191(LC 8) Max Uplift 2=-428(LC 5), 8=-736(LC 5) Max Grav 2=1015(LC 1), 8=1345(LC 1)

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

TOP CHORD 2-4=-1302/627, 4-5=-1212/641, 5-6=-992/560

BOT CHORD 2-9=-596/1019. 8-9=-351/622

WEBS 5-9=-243/467, 6-9=-347/603, 6-8=-972/550

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=428, 8=736.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 71 lb down and 50 lb up at 7-0-0, 71 lb down and 48 lb up at 9-0-12, 71 lb down and 41 lb up at 11-0-12, and 71 lb down and 48 lb up at 13-0-12, and 60 lb down and 49 lb up at 15-1-12 on top chord, and 411 lb down and 349 lb up at 7-0-0, 153 lb down and 107 lb up at 9-0-12, 153 lb down and 107 lb up at 11-0-12, and 153 lb down and 107 lb up at 13-0-12, and 161 lb down and 99 lb up at 15-1-12 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: 1-5=-54, 5-7=-54, 8-10=-20

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

Lake City, FL - 32055,

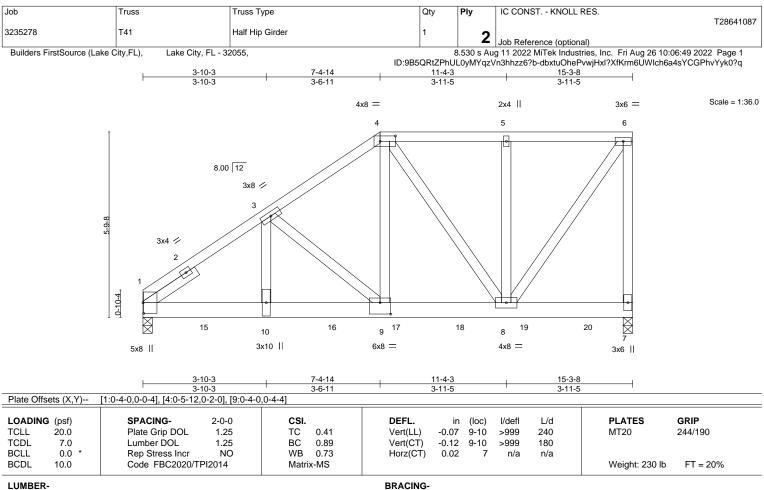
8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Aug 26 10:06:47 2022 Page 2 ID:985QRtZPhUL0yMYqzVn3hhzz6?b-gCp7TigNtHg02dccPEHNghO91o1T69WFlywaqfyk0?s

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)





TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.2 **BOT CHORD** 2x6 SP No 2 2x4 SP No.3

WFBS SLIDER Left 2x4 SP No.3 1-11-8

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-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

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.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; 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
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) except (jt=lb) 1=1410, 7=1106.
- 10) 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

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Structural wood sheathing directly applied or 4-10-2 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

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

Lake City, FL - 32055,

8.530 s Aug 11 2022 MTek Industries, Inc. Fri Aug 26 10:06:49 2022 Page 2 ID:985QRtZPhUL0yMYqzVn3hhzz6?b-dbxtuOhePvwjHxl?XfKrm6UWlch6a4sYCGPhvYyk0?q

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)

IC CONST. - KNOLL RES. Job Truss Truss Type Qty Ply T28641088 3235278 T42 2 Common 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 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-Zz3dJ4juxWARWFvNe3MJrXZt4PU12?0rgaunzQyk0?o 10-11-0 16-4-7 21-10-0 23-4-0 5-5-7 5-5-9 1-6-0 Scale = 1:49.0 4x4 = 8.00 12 3x6 // 3x6 <> 4x4 / 4x4 > 12 25 13 10 3x6 = 3x8 = 2x4 || 2x4 || 3x10 || 3x10 || 10-11-0 16-4-7 21-10-0 5-5-7 Plate Offsets (X,Y)-- [2:0-6-1,Edge], [8:0-6-1,Edge] DEFL. in (loc) I/defI L/d **PLATES** GRIP

LOADIN	G (psf)	SPACING-	CSI.		
TCLL	20.0	Plate Grip DOL	1.25	TC 0.33	
TCDL	7.0	Lumber DOL	1.25	BC 0.41	
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.68	
BCDL	10.0	Code FBC2020/T	Matrix-MS		

Horz(CT) 0.03 BRACING-

0.07 10-11

-0.09 11-13

>999

>999

n/a

240

180

n/a

Rigid ceiling directly applied or 7-6-6 oc bracing.

Vert(LL)

Vert(CT)

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 5-2-11 oc purlins.

MT20

Weight: 129 lb

244/190

FT = 20%

LUMBER-TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No 2 2x4 SP No 3 WFBS

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-

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

- 2) 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
- 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) 2=190, 8=190.

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Job Truss Truss Type Qty Ply IC CONST. - KNOLL RES. T28641089 3235278 T42G **GABLE** 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 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-VMAOklk8T7Q9mY3mmUOnwyeE3DEzW?v87tNu2Jyk0?m -1-6-0 1-6-0 10-11-0 16-4-7 21-10-0 23-4-0 1-6-0 5-5-7 Scale = 1:51.2 4x4 = 6 35 34 8.00 12 3x6 N 3x6 / 3x4 × 4x8 // 4x8 ≫ 4x4 9^{4x4} ≫ 12 3x10 || 3x10 || 21 20 19 18 17 16 15 14 5x8 = 10-11-0 21-10-0

Plate Offse	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-	2-0-0	CSI.		DEFL.	in (loc)	l/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/TI	PI2014	Matri	x-MS					Weight: 180 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No 3 WFBS **OTHERS** 2x4 SP No.3

SLIDER Left 2x6 SP No.2 1-7-2, Right 2x6 SP No.2 1-7-2

REACTIONS. All bearings 16-1-8 except (jt=length) 10=0-3-8, 13=0-3-8.

Max Horz 2=180(LC 11) (lb) -

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 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 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) 2, 21, 14, 13 except (it=lb) 10=109, 16=128, 19=125.

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Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

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

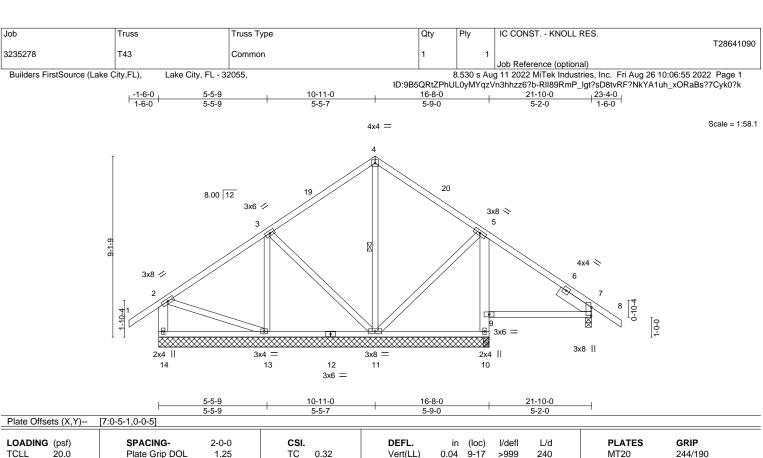
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Chesterfield, MO 63017



LOADING TCLL TCDL	G (psf) 20.0 7.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI. TC BC	0.32 0.24	DEF Verti	LL) 0.	04	(loc) 9-17 9-17	l/defl >999 >999	L/d 240 180	I	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0 *	Rep Stress Incr Code FBC2020/T	YES	WB	0.15 x-MS	Horz	- ,		7	n/a	n/a	\	Weight: 146 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x4 SP No 2

BOT CHORD 2x4 SP No.2 *Except*

5-10: 2x6 SP No.2

WFBS 2x4 SP No.3 *Except*

2-14: 2x6 SP No.2

SLIDER Right 2x6 SP No.2 1-11-8

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-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 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) 14 except (jt=lb) 7=133, 13=103, 11=104.

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Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

except end verticals.

1 Row at midpt

6-0-0 oc bracing: 9-10.

IC CONST. - KNOLL RES. Job Truss Truss Type Qty Ply T28641091 3235278 T44 4 Roof Special 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?j 10-11-0 16-8-0 21-0-0 5-5-7 Scale = 1:53.3 4x4 = 8.00 12 13 3x6 🖊 3x8 N X 3x6 > 5 3x6 🖊 1-4-15 1-10-4 1-0-0 3x6 = × 2x4 || 10 11 9 12 3x6 = 2x4 || 2x4 || 3x4 = 3x8 = 5-5-9 10-11-0 16-8-0 21-0-0 5-9-0 4-4-0 LOADING (psf)

BRACING-

TOP CHORD

BOT CHORD

WFBS

TCLL 20.0 TCDL 7.0 **BCLL** 0.0 BCDL 10.0

SPACING-2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014

CSI. TC 0.35 вс 0.28 WB 0.34 Matrix-MS

DEFL. in (loc) I/defl I/d Vert(LL) -0.02 8-9 >999 240 Vert(CT) -0.05 8-9 >999 180 Horz(CT) 0.00 8 n/a n/a

except end verticals

1 Row at midpt

PLATES GRIP MT20 244/190

Structural wood sheathing directly applied or 6-0-0 oc purlins,

3-9

Rigid ceiling directly applied or 6-0-0 oc bracing.

Weight: 140 lb FT = 20%

LUMBER-

REACTIONS.

WFBS

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

2x4 SP No 3

(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

9-11=-156/471, 7-8=-925/197, 4-7=-829/196 BOT CHORD WFBS 2-9=-316/184, 4-9=-55/436, 1-11=-40/380

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 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) 12=111, 8=179.

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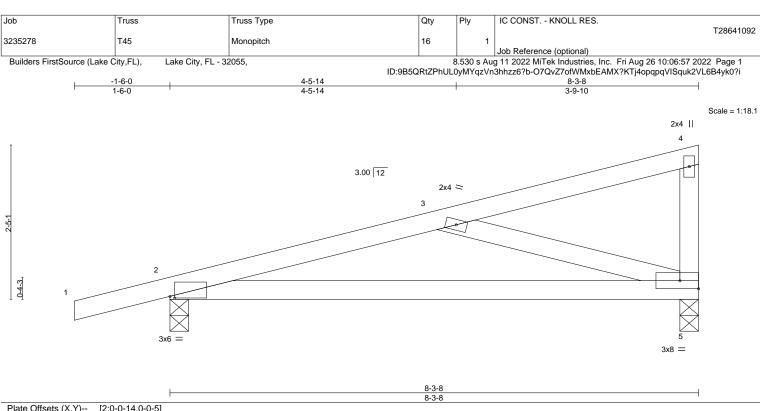


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Flate Oil	ate Offsets (A,1) [2.0-0-14,0-0-5]									
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP					
TCLL	20.0	Plate Grip DOL 1.25	TC 0.63	Vert(LL) 0.22 5-8 >448 240	MT20 244/190					
TCDL	7.0	Lumber DOL 1.25	BC 0.55	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%					

BRACING-TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No 2

BOT CHORD 2x4 SP No.3 WFBS

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



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 5-4-0 oc bracing.

except end verticals.

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

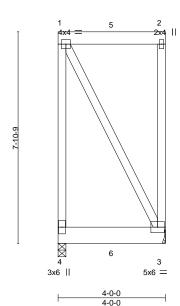
Structural wood sheathing directly applied or 4-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

4-0-0

Scale = 1:42.9



LOADIN	G (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	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.00	3-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matri	x-MP						Weight: 53 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.3 WFBS

(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.

- 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) 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) 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.

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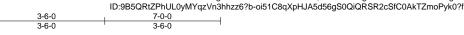
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



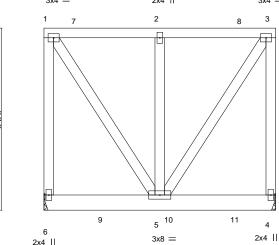
Job	Truss	Truss Type	Qty	Ply	IC CONST KNOLL RES.
					T28641094
3235278	TG02	FLAT GIRDER	1	1	
					Job Reference (optional)

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

Scale = 1:34.8



3x4 = 2x4 || 3x4 =



3-6-0 3-6-0 3-6-0

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	-0.01	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matrix-MS							Weight: 65 lb	FT = 20%

LUMBER-

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

2x4 SP No.3 WFBS

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) 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.

1-6=-490/148, 1-2=-276/75, 2-3=-276/75, 3-4=-489/148 TOP CHORD

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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IC CONST. - KNOLL RES. Job Truss Truss Type Qty Ply T28641095 3235278 V01 **GABLE** 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 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-GufPPUr9abR0jngIEAXfFe_f?RzGOguJz7JJKryk0?e 10-10-15 10-10-15 10-10-15 Scale = 1:44.7 4x4 = 56 9 8.00 12 23 10 11 5-0-0 12 4-0-0 13 3x6 / 3x6 N 22 21 2019 15 18 17 16 3x6 = 21-9-15 21-9-15 Plate Offsets (X,Y)--[9:0-0-0,0-0-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d

20.0 TCDL 7.0 **BCLL** 0.0 10.0

Lumber DOL 1.25 BC 0.16 WB Rep Stress Incr YES 0.08 Code FBC2020/TPI2014 Matrix-S

1.25

Plate Grip DOL

(loc) Vert(LL) n/a n/a 999 Vert(CT) n/a n/a 999 Horz(CT) 0.00 13 n/a n/a **PLATES GRIP** MT20 244/190

Weight: 109 lb FT = 20%

LUMBER-

TCLL

BCDL

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WERS **OTHERS** 2x4 SP No.3 **BRACING-**

TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or 6-0-0 oc purlins. 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

All bearings 21-9-15. REACTIONS.

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

TC

0.05

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) 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.

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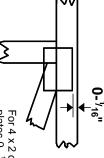


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 × 4

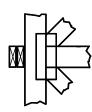
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



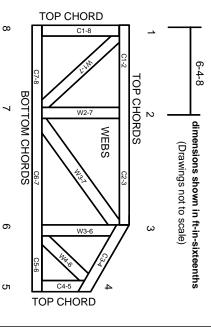
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.