



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

RE: 3363898 - IC CONST. - LEECH RES.

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Leech Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, 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: 55.0 psf

This package includes 65 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	T29562123	EJ01	1/11/23	15	T29562137	T02	1/11/23
2	T29562124	PB01	1/11/23	16	T29562138	T03	1/11/23
3	T29562125	PB02	1/11/23	17	T29562139	T04	1/11/23
4	T29562126	PB02G	1/11/23	18	T29562140	T05	1/11/23
5	T29562127	PB03	1/11/23	19	T29562141	T06	1/11/23
6	T29562128	PB03G	1/11/23	20	T29562142	T06G	1/11/23
7	T29562129	PB04	1/11/23	21	T29562143	T07	1/11/23
8	T29562130	PB04G	1/11/23	22	T29562144	T08	1/11/23
9	T29562131	PB05G	1/11/23	23	T29562145	T09	1/11/23
10	T29562132	PB06	1/11/23	24	T29562146	T09G	1/11/23
11	T29562133	PB07	1/11/23	25	T29562147	T10	1/11/23
12	T29562134	PB07G	1/11/23	26	T29562148	T11	1/11/23
13	T29562135	T01	1/11/23	27	T29562149	T11G	1/11/23
14	T29562136	T01G	1/11/23	28	T29562150	T12	1/11/23

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

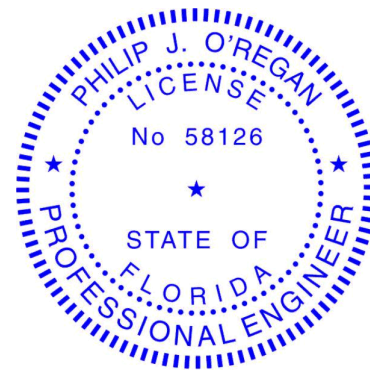
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The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: 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:

January 11, 2023

ORegan, Philip

1 of 2



RE: 3363898 - IC CONST. - LEECH RES.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Leech Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

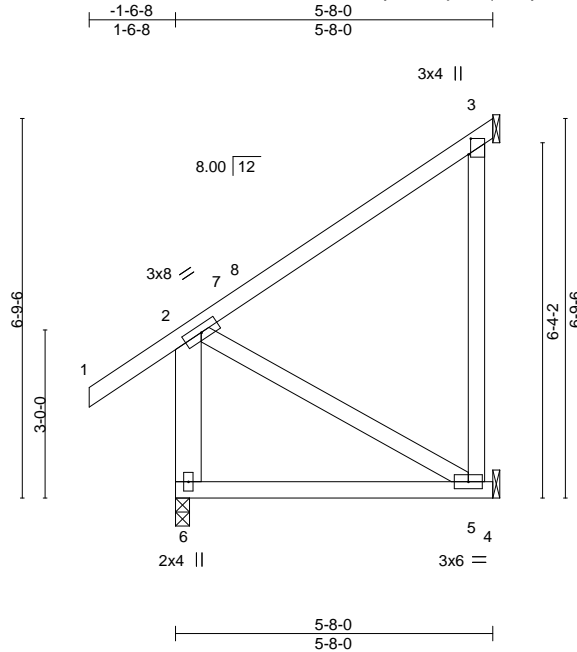
No.	Seal#	Truss Name	Date
29	T29562151	T13	1/11/23
30	T29562152	T13G	1/11/23
31	T29562153	T14	1/11/23
32	T29562154	T15	1/11/23
33	T29562155	T15G	1/11/23
34	T29562156	T16	1/11/23
35	T29562157	T17	1/11/23
36	T29562158	T17G	1/11/23
37	T29562159	T18	1/11/23
38	T29562160	T19	1/11/23
39	T29562161	T20	1/11/23
40	T29562162	T21	1/11/23
41	T29562163	T22	1/11/23
42	T29562164	T23	1/11/23
43	T29562165	T24G	1/11/23
44	T29562166	T25	1/11/23
45	T29562167	T25G	1/11/23
46	T29562168	T26	1/11/23
47	T29562169	T27	1/11/23
48	T29562170	T28	1/11/23
49	T29562171	T28G	1/11/23
50	T29562172	T29	1/11/23
51	T29562173	T30	1/11/23
52	T29562174	T30G	1/11/23
53	T29562175	T31	1/11/23
54	T29562176	T31G	1/11/23
55	T29562177	T32	1/11/23
56	T29562178	T33	1/11/23
57	T29562179	T34	1/11/23
58	T29562180	T35	1/11/23
59	T29562181	T36	1/11/23
60	T29562182	T36G	1/11/23
61	T29562183	TF01	1/11/23
62	T29562184	TF01G	1/11/23
63	T29562185	TG01	1/11/23
64	T29562186	TG02	1/11/23
65	T29562187	TG03	1/11/23

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.
3363898	EJ01	Jack-Open	3	1	T29562123
Job Reference (optional)					

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:18:33 2023 Page 1

ID:rBnvGlyPNoMajBI2sqc2kZycQXD-0yyoub9OcPMqMI1PM9CS5yNQIBbUdYZKyBlm5IzwWDa



Scale = 1:41.2

Plate Offsets (X,Y)--	[3:0-3-7,0-0-8]								
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 0.34	Vert(LL)	-0.04 5-6	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.33	Vert(CT)	-0.08 5-6	>740	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP					Weight: 45 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 6=0-3-0, 3=Mechanical, 5=Mechanical
Max Horz 6=136(LC 9)
Max Uplift 3=-96(LC 12), 5=-58(LC 12)
Max Grav 6=302(LC 1), 3=132(LC 19), 5=115(LC 3)

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

TOP CHORD 2-6=-251/64
WEBS 2-5=-163/285

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 5-4-8 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint 3 and 58 lb uplift at joint 5.

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

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

January 11,2023

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

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

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

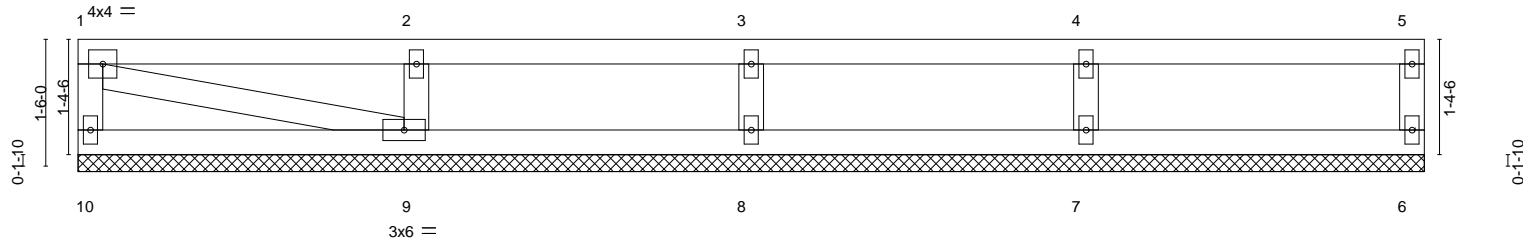
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562124
3363898	PB01	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:18:34 2023 Page 1
ID:rBnvGlyPNoMajBl2sqc2kZycQXD-U8WA5xA1NjUh_Rccwtjhe9weSb?xM?JUBr1JeBzwWDZ
15-11-0
15-11-0
Scale = 1:27.2



LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	n/a - n/a	MT20	244/190		
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	n/a - n/a				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00 6 n/a				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S				Weight: 59 lb	FT = 20%		

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 15-11-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 10, 6, 8, 7, 9
Max Grav All reactions 250 lb or less at joint(s) 10, 6 except 8=283(LC 1), 7=313(LC 1), 9=313(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 Corner(3) zone;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) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 8) Gable studs spaced at 4-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * 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.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6, 8, 7, 9.
 - 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

January 11,2023



Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562125
3363898	PB02	Piggyback	7	1		
Job Reference (optional)						

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

8.530 s Aug 11 2022 MiTek Industries, Inc.
Wed Jan 11 06:18:36 2023
Page 1

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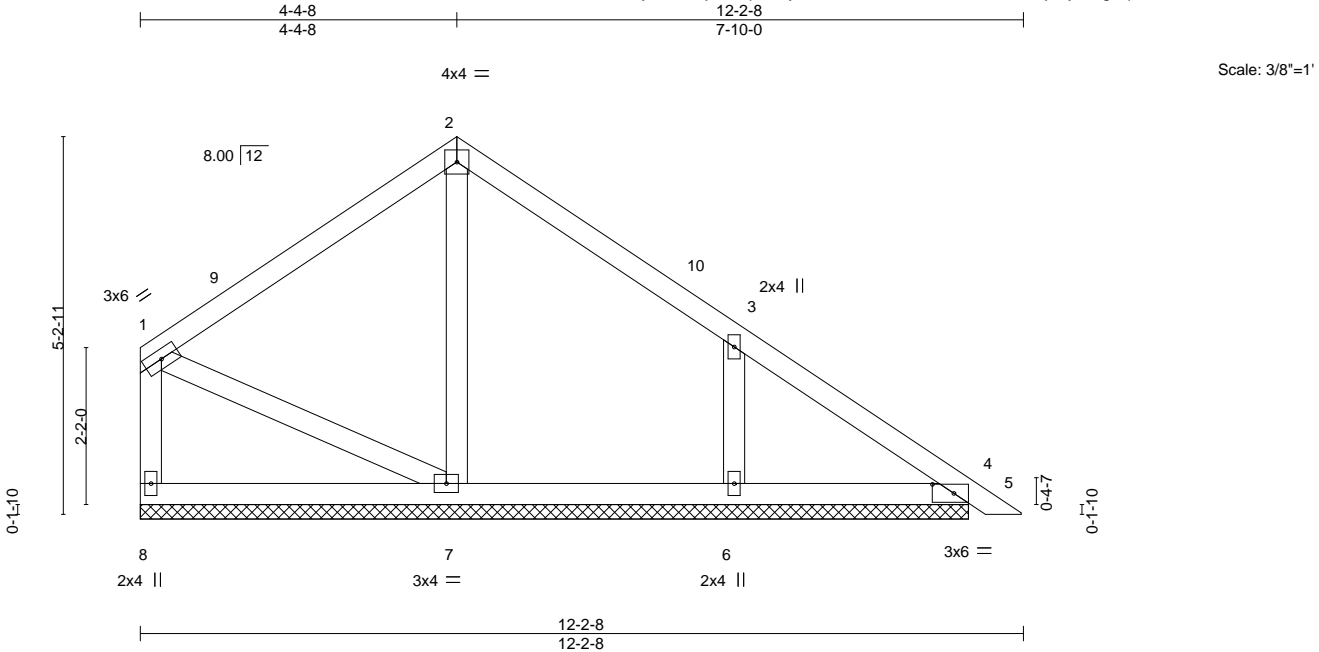


Plate Offsets (X,Y)--	[4:0-3-9,0-1-8]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.20	Vert(LL)	0.00 5	n/r	120
TCDL 7.0	Lumber DOL	1.25	BC 0.13	Vert(CT)	0.00 5	n/r	120
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00 4	n/a	n/a
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-S				
Weight: 58 lb							FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 11-5-6.
 (lb) - Max Horz 8=117(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 8, 4, 7 except 6=151(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 8, 4 except 7=255(LC 19), 6=313(LC 20)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-4-8, Exterior(2R) 4-4-8 to 7-4-8, Interior(1) 7-4-8 to 11-11-3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 7 except (jt=lb) 6=151.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been electronically signed and sealed by 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:

January 11,2023

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562126
3363898	PB02G	GABLE	1	1		

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

8.530 s Aug 11 2022 MiTek Industries, Inc.
Wed Jan 11 06:18:37 2023
Page 1

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4-4-8

4-4-8

12-2-8

7-10-0

4x4 =

2x4 ||

2x4 ||

2x4 ||

2x4 ||

3x6 =

3x4 =

2x4 ||

2x4 ||

3x8 =

4-10-7

1-9-13

0-1-10

0-1-10

8

7

11-7-14 6

5

3

12-2-8

12-2-8

Scale = 1:29.8

Plate Offsets (X,Y)--		[3:0-8-0,0-0-10]							
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	2-0-0	Plate Grip DOL	1.25	TC	0.37	in (loc)	l/defl	L/d
TCDL	7.0		Lumber DOL	1.25	BC	0.45	0.01	4	n/r
BCLL	0.0 *		Rep Stress Incr	YES	WB	0.07	0.01	4	n/r
BCDL	10.0		Code	FBC2020/TPI2014	Matrix-MS		0.00	13	n/a
								Weight: 61 lb	
								FT = 20%	

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

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

REACTIONS. All bearings 10-11-2.
(lb) - Max Horz 8=105(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 8, 3, 6 except 5=111(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 7, 6, 5 except 8=348(LC 1), 3=272(LC 1), 3=272(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-310/160, 1-2=-307/158, 2-3=-349/145

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-4-8, Exterior(2R) 4-4-8 to 7-4-8, Interior(1) 7-4-8 to 11-4-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 3, 6, 3 except (jt=lb) 5=111.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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

January 11,2023

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562127
3363898	PB03	GABLE	8	1		

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:18:38 2023 Page 1

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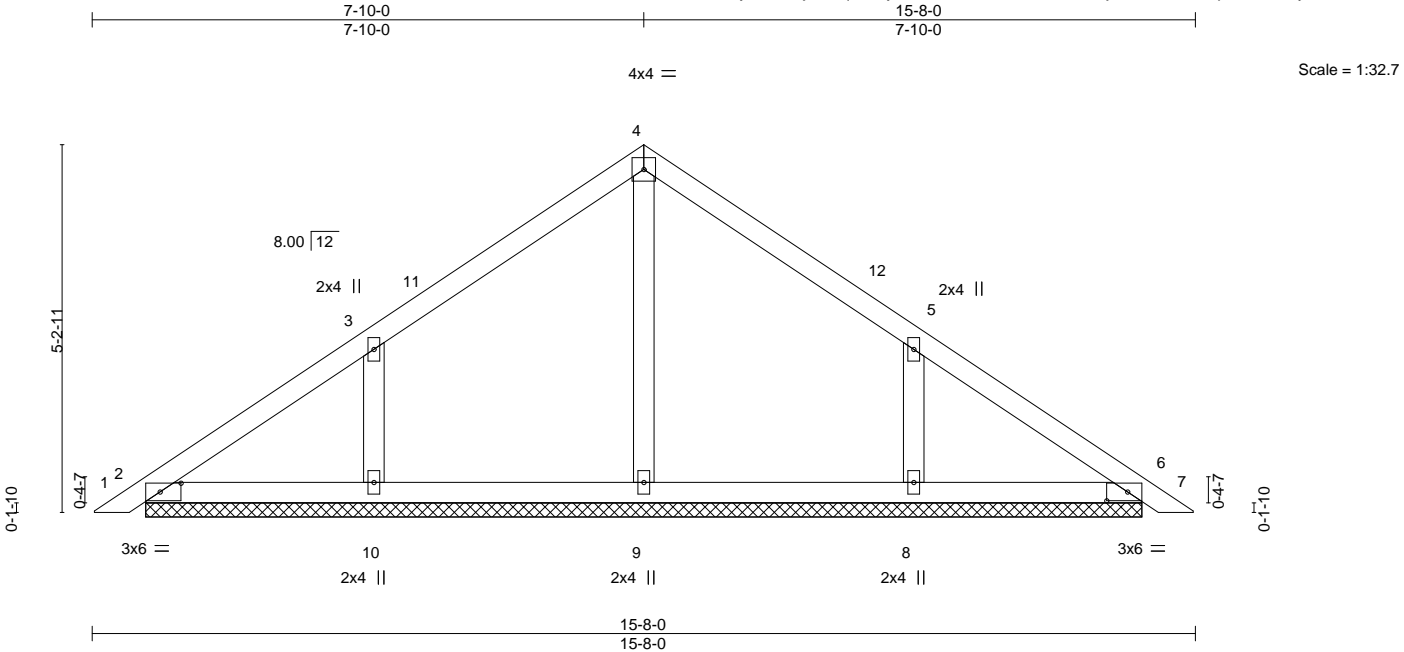


Plate Offsets (X,Y)--		[2:0-3-9,0-1-8], [6:0-3-9,0-1-8]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES	GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	0.00	7	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	0.00	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 61 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 14-1-12.
 (lb) - Max Horz 2=111(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 8=151(LC 13), 10=151(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 8=319(LC 20), 10=320(LC 19)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 7-10-0, Exterior(2R) 7-10-0 to 10-10-0, Interior(1) 10-10-0 to 15-4-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 8=151, 10=151.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been electronically signed and sealed by 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:

January 11,2023

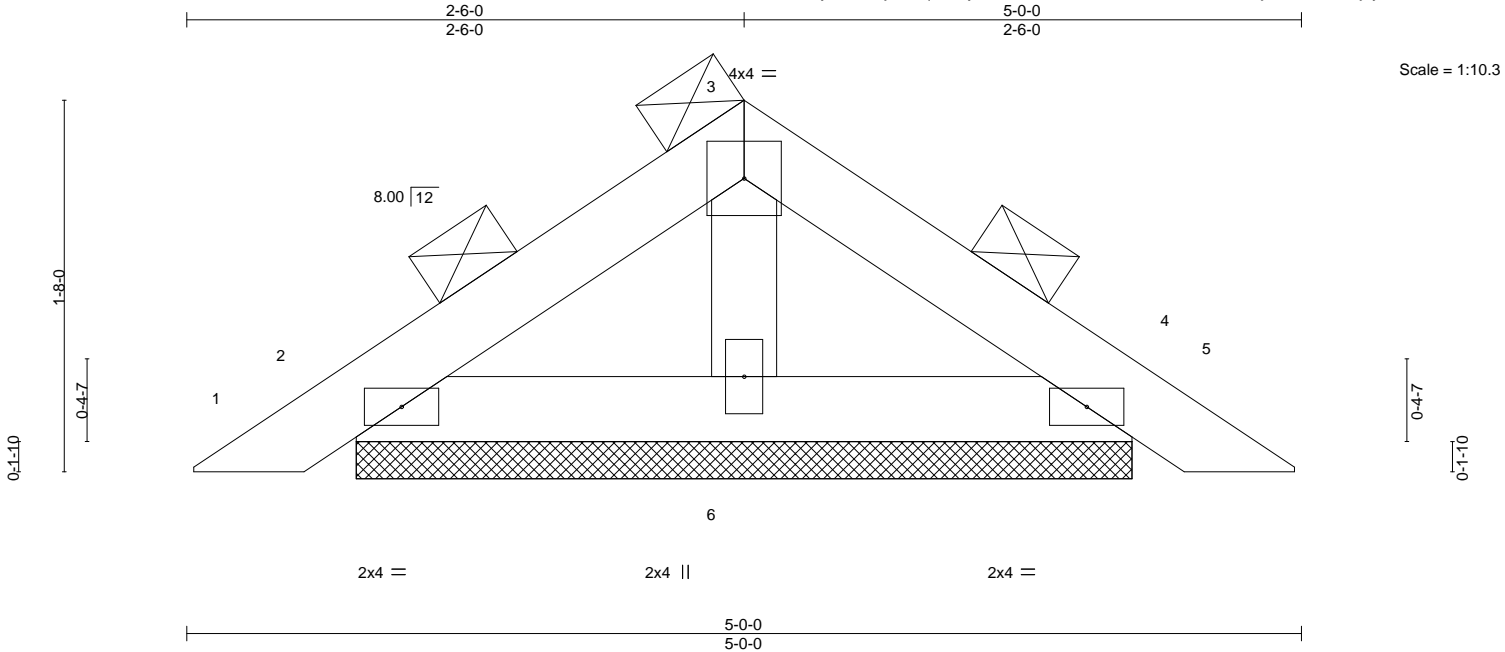


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562132
3363898	PB06	PIGGYBACK	3	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Wed Jan 11 06:18:46 2023
Page 1

ID:rBnvGlyPNoMajBl2sqc2kZycQXD-8SEic1JYZP?_QHWvdOxV7hQj5Q68ARDFxjxy3UzwWDN



LOADING (psf)	SPACING-	4-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.05	Vert(LL)	0.00	4	n/r	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	0.00	4	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.01	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P					Weight: 31 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins
BOT CHORD	2x4 SP No.2		(Switched from sheeted: Spacing > 2-8-0).
OTHERS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=3-5-12, 4=3-5-12, 6=3-5-12
Max Horz 2=-65(LC 10)
Max Uplift 2=-66(LC 12), 4=-74(LC 13), 6=-13(LC 12)
Max Grav 2=196(LC 1), 4=196(LC 1), 6=227(LC 1)

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

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Providing Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - 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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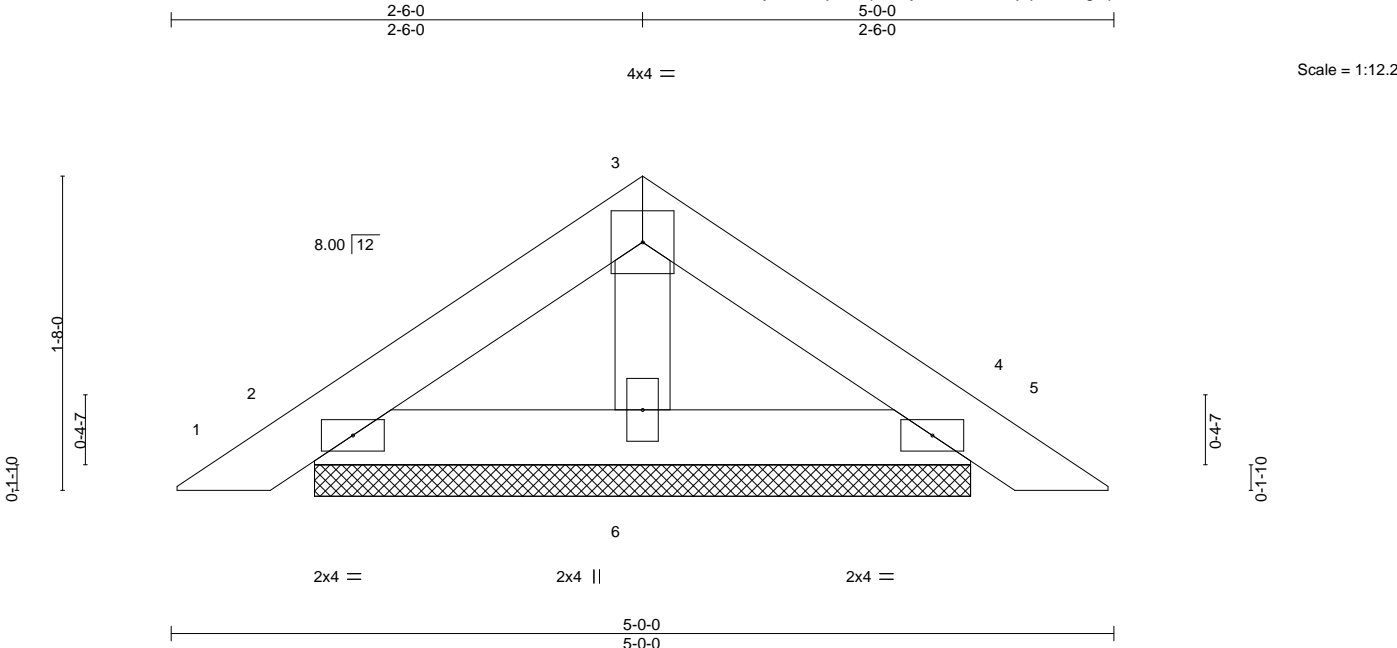
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 11,2023

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562133
3363898	PB07	Piggyback	9	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:18:48 2023 Page 1
ID:rBnvGlyPNoMajBl2sqc2kZycQXD-4rMT1jLp40FifbgIkpzzC6V3cEofeLiYP1Q37NzwWDL



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 0.04	Vert(LL)	0.00	4	n/r	120	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	0.00	4	n/r	120	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a	n/a	
BCDL 10.0	Code FBC2020/TPJ2014		Matrix-P						
								Weight: 15 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=3-5-12, 4=3-5-12, 6=3-5-12
Max Horz 2=33(LC 10)
Max Uplift 2=33(LC 12), 4=37(LC 13), 6=6(LC 12)
Max Grav 2=98(LC 1), 4=98(LC 1), 6=114(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.

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:

January 11,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



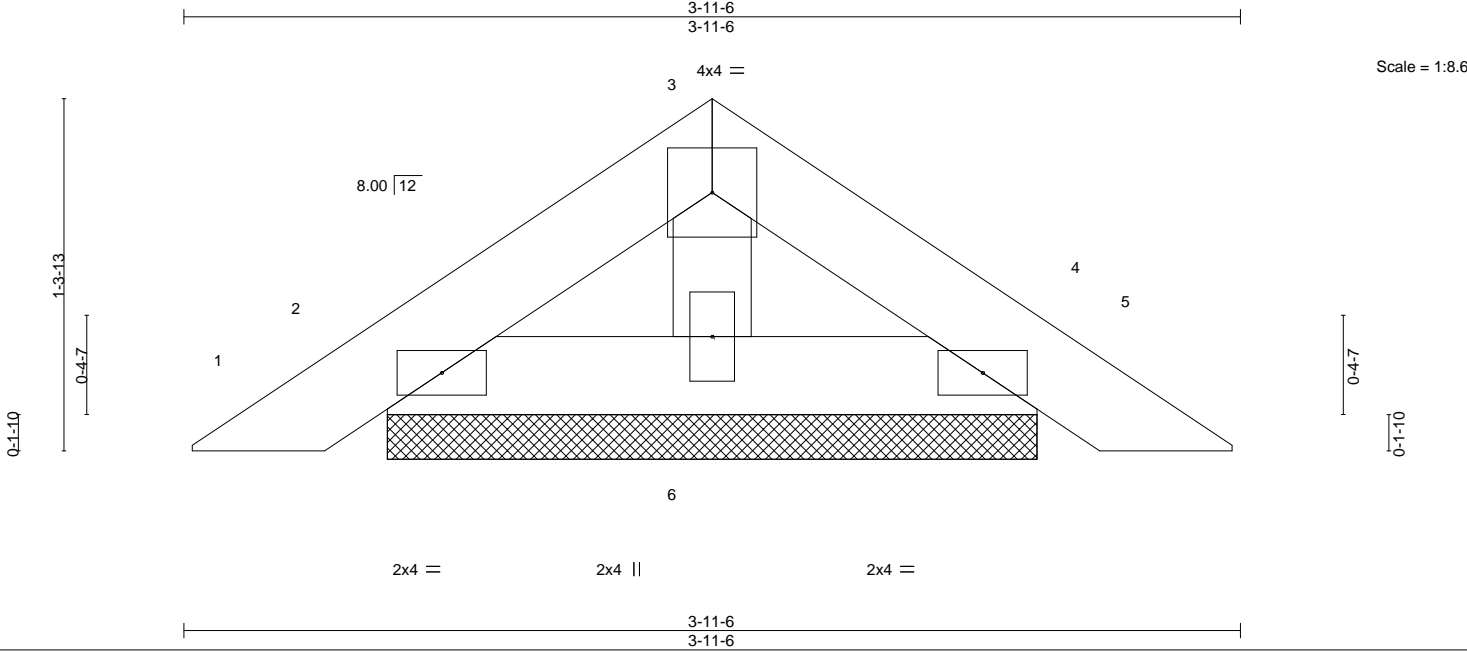
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562134
3363898	PB07G	GABLE	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:18:49 2023 Page 1

ID:rBnvGlyPNoMajBI2sqc2kZycQXD-Y1wrF3LRrKNYHIFUIWUCkK2Ele77No0ehAcgpczwWDK



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 0.02	Vert(LL)	0.00	4	n/r	120	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.02	Vert(CT)	0.00	4	n/r	120	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P						
								Weight: 11 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=2-5-2, 4=2-5-2, 6=2-5-2
Max Horz 2=25(LC 11)
Max Uplift 2=27(LC 12), 4=31(LC 13), 6=3(LC 12)
Max Grav 2=78(LC 1), 4=78(LC 1), 6=76(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) 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, 4, 6.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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

January 11,2023

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

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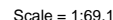
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:18:52 2023 Page 1
 ID:rBnvGlyPN0MajBl2sqc2kZycQXD-zcb_t5OJ8F78C_3zf2vMygc?r_Ea_m7KeOGG8zwWDH
 19-11-10
 12-5-8
 1-6-8 | 3-6-0 | 7-3-4 | 9-11-7 | 10-11-3 | 14-11-8 | 17-5-8 | 18-11-13 | 22-7-12 | 26-5-0 | 29-11-0 | 31-5-8 |
 1-6-8 | 3-6-0 | 3-9-4 | 2-8-3 | 0-11-13 | 2-6-0 | 2-6-0 | 1-6-5 | 2-8-2 | 3-9-4 | 3-6-0 | 1-6-8 |
 1-6-5
 6x8 =
 0-11-13
 Scale = 1:69.



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 0.53	Vert(LL) -0.25 19-21	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.76	Vert(CT) -0.47 19-21	>756	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.71	Horz(CT) 0.03 14	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Attic -0.13 18-24	1411	360	Weight: 312 lb	FT = 20%

REACTIONS. (size) 27=0-3-0, 14=0-3-0
 Max Horz 27=-292(LC 10)
 Max Uplift 27=-8(LC 12), 14=-8(LC 13)
 Max Grav 27=1915(LC 20), 14=1915(LC 21)

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 12-5-8, Exterior(2R) 12-5-8 to 16-8-7, Interior(1) 16-8-7 to 17-5-8, Exterior(2R) 17-5-8 to 21-8-7, Interior(1) 21-8-7 to 31-5-8 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) 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) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-28, 28-29, 9-29; Wall dead load (5.0psf) on member(s). 4-24, 10-18
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 23-24, 21-23, 19-21, 18-19
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 14.

Our graphical representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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January 11,2023

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

January 11, 2023



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562135
3363898	T01	ATTIC	9	1	Job Reference (optional)	

NOTES-
11) Attic room checked for L/360 deflection.

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:18:56 2023 Page 1

12-11-13												19-11-10			
1-6-8	3-6-0	7-3-4	9-11-7	11-5-8	14-11-8	16-11-3	18-5-8	22-7-12	26-5-0	29-11-0	31-5-8				
1-6-8	3-6-0	3-9-4	2-8-3	1-6-2	1-11-11	1-11-11	1-6-5	1-6-2	2-8-2	3-9-4	1-6-8				

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

January 11, 2023

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Design valid for use only with MiTEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Code**.

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562136
3363898	T01G	GABLE	1	1	Job Reference (optional)	

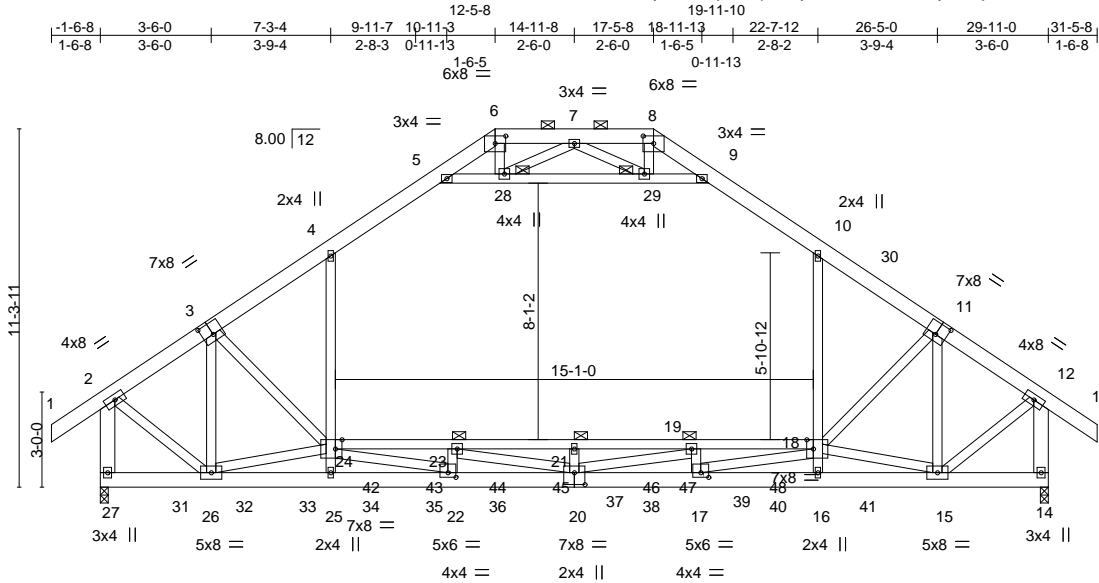
- NOTES-**
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Ceiling dead load (5.0 psf) on member(s). 5-6, 10-11, 6-30, 30-31, 10-31; Wall dead load (5.0psf) on member(s).5-26, 11-20
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 28, 16, 17 except (jt=lb) 27=136, 18=131.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562137
3363898	T02	ATTIC	2	3	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:19:01 2023 Page 1

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Scale = 1:72.7

<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>									
Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [6:0-4-0,0-2-13], [8:0-4-0,0-2-13], [11:0-4-0,0-4-8], [17:0-3-0,0-1-12], [18:0-2-8,Edge], [20:0-4-0,0-4-8], [22:0-3-0,0-1-12], [24:0-2-8,Edge]									
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 0.49		Vert(LL) -0.21 21 >999 240		MT20	244/190
TCDL 7.0		Lumber DOL 1.25		BC 0.29		Vert(CT) -0.33 19-21 >999 180			
BCLL 0.0 *		Rep Stress Incr NO		WB 0.92		Horz(CT) 0.03 14 n/a n/a			
BCDL 10.0		Code FBC2020/TPI2014		Matrix-MS		Attic -0.11 18-24 1714 360		Weight: 937 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
3-6,8-11: 2x6 SP M 26
BOT CHORD 2x6 SP M 26 *Except*
18-24: 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
2-27,12-14: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 21, 23, 19, 28, 29

REACTIONS.

(size) 27=0-3-0, 14=0-3-0
Max Horz 27=-466(LC 4)
Max Uplift 27=-299(LC 8), 14=-361(LC 9)
Max Grav 27=5582(LC 2), 14=5537(LC 2)

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

TOP CHORD 2-3=-4087/223, 3-4=-6090/411, 4-5=-4981/488, 5-6=-2343/637, 6-7=-1761/655,
7-8=-2720/718, 8-9=-3208/676, 9-10=-5398/413, 10-11=-6087/232, 11-12=-4337/300,
2-27=-5139/303, 12-14=-5464/405
BOT CHORD 26-27=-380/442, 25-26=-649/2238, 22-25=-711/2063, 20-22=0/7580, 17-20=-179/8676,
16-17=-1028/4827, 15-16=-1022/4840, 23-24=-2915/859, 21-23=-5405/0, 19-21=-5405/0,
18-19=-4012/216
WEBS 3-24=-336/2084, 24-25=-23/1149, 4-24=0/2355, 5-28=-4891/144, 28-29=-2275/861,
9-29=-4126/55, 16-18=-147/899, 10-18=-713/1331, 2-26=-150/4374, 11-18=-257/1570,
20-21=-428/0, 22-23=-1225/48, 17-19=-894/9, 22-24=-49/5767, 20-23=-421/2670,
19-20=-601/1452, 17-18=0/4861, 6-28=-203/1692, 8-29=-150/1200, 7-28=-3197/452,
7-29=-2178/354, 12-15=-254/4628, 3-26=-2947/264, 24-26=-717/2466, 11-15=-2697/93,
15-18=-2000/902

NOTES-

- 3-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: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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

January 11,2023

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

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

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562137
3363898	T02	ATTIC	2	3	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Wed Jan 11 06:19:01 2023
Page 2
ID:rBnvGlyPNoMajBI2sqc2kZycQXD-CLeNmAVy00usjbAo?2i0EsYARTAbB?pSOY4F57zwWD8

- NOTES-**
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-28, 28-29, 9-29; Wall dead load (5.0psf) on member(s).4-24, 10-18
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 23-24, 21-23, 19-21, 18-19
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 27=299, 14=361.
 - Girder carries tie-in span(s): 7-0-0 from 14-11-8 to 24-1-8
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2494 lb down and 352 lb up at 14-11-8 on top chord, and 332 lb down at 0-2-12, 324 lb down at 2-5-4, 324 lb down at 4-5-4, 324 lb down at 6-5-4, 324 lb down at 8-5-4, 324 lb down at 10-5-4, 324 lb down at 12-5-4, 324 lb down at 14-5-4, 324 lb down at 16-5-4, 324 lb down at 18-5-4, 324 lb down at 20-5-4, and 324 lb down at 22-6-0, and 370 lb down and 283 lb up at 24-1-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - Attic room checked for L/360 deflection.

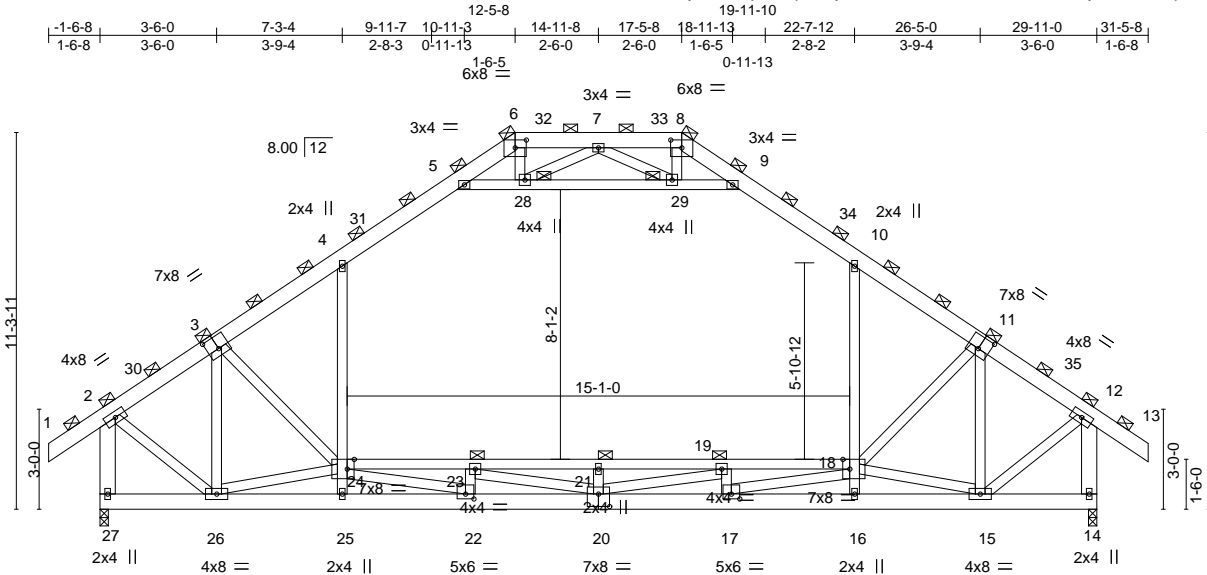
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-2=-54, 2-4=-54, 4-5=-64, 5-6=-54, 6-7=-54, 7-8=-171(F=-118), 8-9=-172(F=-117), 9-10=-181(F=-117), 10-30=-171(F=-118), 12-30=-54, 12-13=-54, 14-27=-20, 18-24=-40, 5-9=-10
 - Drag: 4-24=-10, 10-18=-10
 - Concentrated Loads (lb)
 - Vert: 27=-82(F) 16=-74(F) 7=-1300 31=-74(F) 32=-74(F) 33=-74(F) 34=-74(F) 35=-74(F) 36=-74(F) 37=-74(F) 38=-74(F) 39=-74(F) 40=-74(F) 41=-370(F)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562138
3363898	T03	ATTIC	1	2	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:19:05 2023 Page 1

ID:rBnvGlyPNoMajBI2sqc2kZycQXD-46tubXYT4EOHCCTZEunyOiiiss4XY7p62JA2SEuzwWD4



Scale = 1:69.1

Plate Offsets (X,Y)--		[3:0-4-0,0-4-8], [6:0-4-0,0-2-13], [8:0-4-0,0-2-13], [11:0-4-0,0-4-8], [17:0-3-0,0-1-12], [18:0-2-8,Edge], [20:0-4-0,0-4-8], [22:0-3-0,0-1-12], [24:0-2-8,Edge]
LOADING (psf)	SPACING-	3-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 7.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	NO
BCDL 10.0	Code	FBC2020/TPI2014
CSI.	DEFL.	in (loc) l/defl L/d
TC 0.46	Vert(LL)	-0.19 21 >999 240
BC 0.29	Vert(CT)	-0.35 21 >997 180
WB 0.90	Horz(CT)	0.02 14 n/a n/a
Matrix-MS	Attic	-0.10 18-24 1840 360
PLATES		GRIP
MT20		244/190
Weight: 625 lb		FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
3-6,8-11: 2x6 SP M 26
BOT CHORD 2x6 SP M 26 *Except*
18-24: 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
2-27,12-14: 2x6 SP No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
(Switched from sheathed: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 6, 8, 2, 12, 21, 23, 19, 28, 29

REACTIONS.

(size) 27=0-3-0, 14=0-3-0
Max Horz 27=-438(LC 10)
Max Uplift 27=-13(LC 12), 14=-13(LC 13)
Max Grav 27=2873(LC 20), 14=2873(LC 21)

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

TOP CHORD 2-3=-2151/0, 3-4=-2985/0, 4-5=-2189/99, 5-6=-111/856, 6-7=0/1142, 7-8=0/1142,
8-9=-111/856, 9-10=-2189/102, 10-11=-2990/0, 11-12=-2150/0, 2-27=-2789/35,
12-14=-2788/34
BOT CHORD 26-27=-399/395, 25-26=-499/2378, 22-25=-525/2343, 20-22=0/5206, 17-20=0/4991,
16-17=-392/2097, 15-16=-367/2133, 23-24=-3037/0, 21-23=-4330/0, 19-21=-4330/0,
18-19=-3037/0
WEBS 3-24=-135/666, 24-25=0/373, 4-24=0/1519, 5-28=-3187/0, 28-29=-2790/0, 9-29=-3208/0,
16-18=0/373, 10-18=0/1519, 2-26=0/2276, 11-18=-153/672, 20-21=-645/0,
22-23=-1135/0, 17-19=-1135/0, 22-24=0/3764, 20-23=-152/1453, 19-20=-165/1463,
17-18=0/3764, 6-28=-24/395, 8-29=-24/395, 7-28=-512/126, 7-29=-512/129,
12-15=0/2276, 3-26=-1575/0, 24-26=-562/472, 11-15=-1598/0, 15-18=-661/541

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 12-5-8, Exterior(2R) 12-5-8 to 16-8-7, Interior(1) 16-8-7 to 17-5-8, Exterior(2R) 17-5-8 to 21-8-7, Interior(1) 21-8-7 to 31-5-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.

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

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

January 11,2023

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

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

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562138
3363898	T03	ATTIC	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Wed Jan 11 06:19:05 2023
Page 2
ID:rBnvGlyPNoMajBI2sqc2kZycQXD-46tubXYT4EOHCCTZEunyOiiss4XY7p62JA2SEuzwWD4

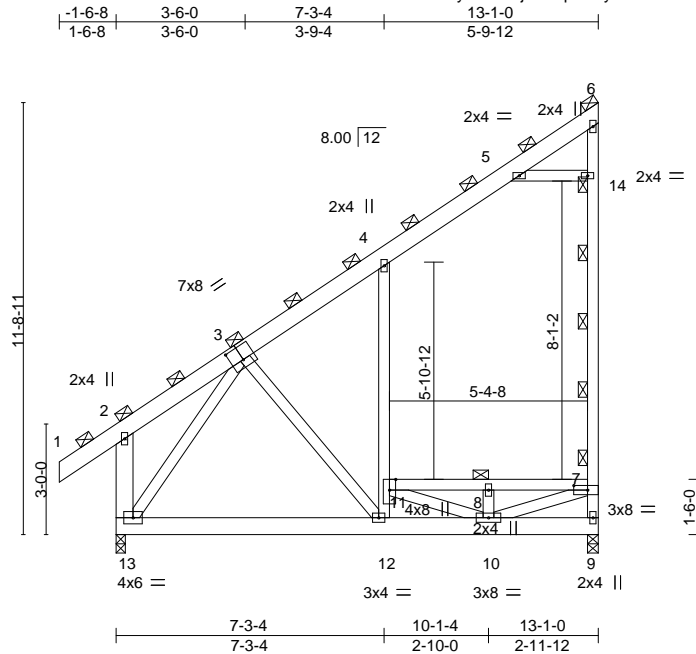
- NOTES-**
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-28, 28-29, 9-29; Wall dead load (5.0psf) on member(s).4-24, 10-18
 - 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 23-24, 21-23, 19-21, 18-19
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 14.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 13) Attic room checked for L/360 deflection.

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.
3363898	T04	ROOF TRUSS	1	2	T29562139

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:19:06 2023 Page 1

ID:rBnvGlyPNoMajBl2sqc2kZycQXD-YIRGptZ5rYW8qM2loblBxvF?BUoasK5BYqn0mKzwWD3



Scale = 1:62.5

Plate Offsets (X,Y)--		[3:0-4-0,0-4-8], [7:0-4-8,0-1-8]							
LOADING (psf)	SPACING-	3-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.61	Vert(LL)	0.18 12-13	>832	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.63	Vert(CT)	-0.34 12-13	>449	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.66	Horz(CT)	0.00 9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS	Attic	-0.07 7-11	920	360	Weight: 280 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2 *Except*
 7-11: 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 6-9: 2x4 SP M 31, 4-12: 2x4 SP No.2, 2-13: 2x6 SP No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
 (Switched from sheeted: Spacing > 2-8-0).
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 6, 2, 8

REACTIONS.

(size) 9=0-3-8, 13=0-3-0
 Max Horz 13=443(LC 12)
 Max Uplift 9=217(LC 12)
 Max Grav 9=1541(LC 20), 13=1016(LC 20)

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

TOP CHORD 3-4=-569/36, 4-5=-343/254, 5-6=-239/745, 7-9=-1554/491, 7-14=-546/265,
 6-14=-514/277, 2-13=-276/211
 BOT CHORD 12-13=-599/746, 10-12=-407/760, 9-10=-695/434, 8-11=-1117/14, 7-8=-1117/14
 WEBS 4-11=0/458, 3-12=-556/520, 5-14=-754/174, 8-10=-513/0, 10-11=0/761, 7-10=-601/2008,
 3-13=-646/112

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 12-11-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 4-5, 5-14; Wall dead load (5.0psf) on member(s).4-11
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 8-11, 7-8
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=217.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

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

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

January 11,2023

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

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

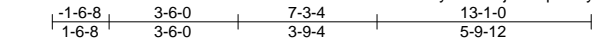


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

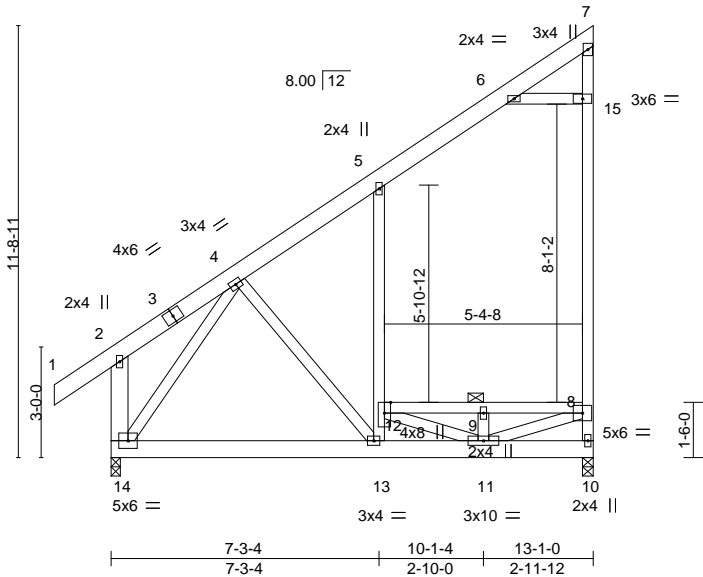
Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.
3363898	T05	ROOF TRUSS	2	1	T29562140
Job Reference (optional)					

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Wed Jan 11 06:19:08 2023
Page 1

ID:rBnvGlyPNoMajBl2sqc2kZycQXD-VhZ1EZaLN9ms3gC8v0Kf0KKIAIR_KB9U?8G7qDzwWD1



Scale = 1:62.5



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 0.71	Vert(LL)	0.24 13-14	>625	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.76	Vert(CT)	-0.45 13-14	>337	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.88	Horz(CT)	0.00 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-MS	Attic	0.10 8-12	690	360	Weight: 140 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
8-12: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
7-10: 2x4 SP M 31, 5-13: 2x4 SP No.2, 2-14: 2x6 SP No.2

REACTIONS. (size) 10=0-3-8, 14=0-3-0
Max Horz 14=295(LC 12)
Max Uplift 10=-145(LC 12)
Max Grav 10=1027(LC 20), 14=678(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-379/23, 6-7=-160/496, 8-10=-1036/328, 8-15=-365/177, 7-15=-343/185
BOT CHORD 13-14=-398/496, 11-13=-271/506, 10-11=-464/289, 9-12=-744/9, 8-9=-744/9
WEBS 5-12=0/307, 4-13=-371/346, 6-15=-502/116, 9-11=-342/0, 11-12=0/507, 8-11=-401/1338,
4-14=-430/77

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) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 12-11-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 5-6, 6-15; Wall dead load (5.0psf) on member(s).5-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-12, 8-9
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=145.
- 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:

January 11,2023



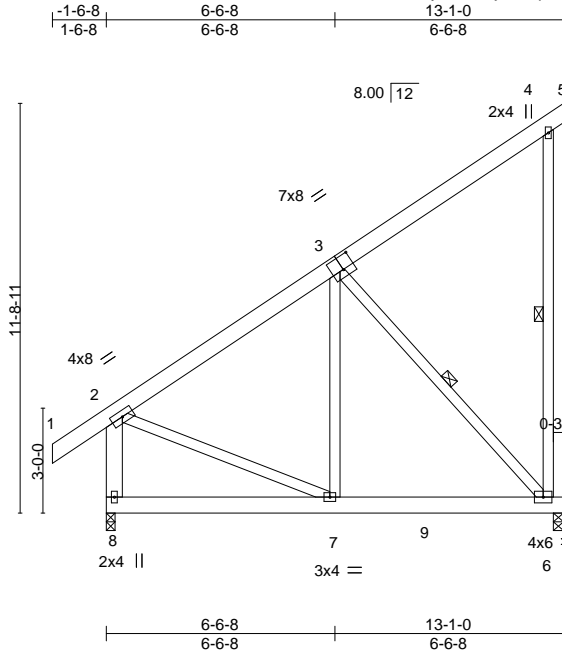
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562141
3363898	T06	Monopitch	2	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:19:09 2023 Page 1

ID:rBnvGlyPNoMajBl2sqc2kZycQXD-zt7PRvb_8TujhqnKTjruYYtcAiv?3oleEo0gNfzwWDO



Scale = 1:65.9

Plate Offsets (X,Y)--	[3:0-4-0,0-4-8]								
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 0.18	Vert(LL)	-0.02 6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.20	Vert(CT)	-0.03 6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.21	Horz(CT)	-0.00 6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 125 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-6, 3-6

REACTIONS.

(size) 8=0-3-0, 6=0-3-8
 Max Horz 8=297(LC 12)
 Max Uplift 6=297(LC 12)
 Max Grav 8=607(LC 19), 6=638(LC 19)

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

TOP CHORD 2-3=-414/0, 2-8=-514/45
 BOT CHORD 7-8=-373/269, 6-7=-179/337
 WEBS 3-7=-37/266, 3-6=-511/272, 2-7=-11/316

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 13-1-0 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) 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=297.

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

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

January 11,2023

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

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



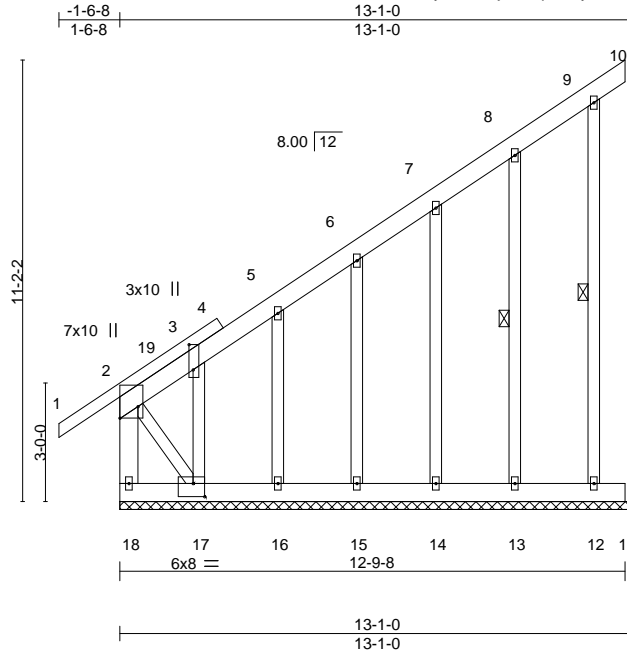
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.
3363898	T06G	GABLE	1	1	T29562142
Job Reference (optional)					

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:19:10 2023 Page 1

ID:rBnvGlyPNoMajBI2sqc2kZycQXD-R4hnfFccvn0alzMX1RM75lQmX5leoFontSIDv5zwWD?



Scale = 1:58.3

Plate Offsets (X,Y)--	[2:Edge,0-5-8], [3:0-7-11,0-1-4], [17:0-3-8,0-4-0]				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	PLATES
TCLL 20.0	Plate Grip DOL	1.25	TC 0.21	in (loc) 1	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.04	Vert(LL) 0.00	GRIP 244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.23	Vert(CT) -0.00	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S	Horz(CT) -0.01	
					Weight: 139 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-4: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x6 SP No.2 *Except* 2-17: 2x4 SP No.3	WEBS 6-0-0 oc bracing: 17-18. 1 Row at midpt 8-13, 9-12
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 13-1-0.
(lb) - Max Horz 18=278(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 10, 16, 15, 14, 13, 12 except 18=-164(LC 10), 17=-459(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 10, 11, 16, 15, 14, 13, 12 except 18=500(LC 12), 17=282(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-18=-727/300, 2-3=-399/203, 3-5=-361/174, 5-6=-303/143
BOT CHORD 17-18=-441/218
WEBS 2-17=-377/763

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-8 to 1-5-8, Exterior(2N) 1-5-8 to 12-9-8 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 16, 15, 14, 13, 12 except (jt=lb) 18=164, 17=459.

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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:

January 11, 2023

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

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



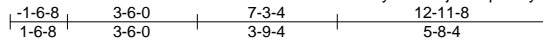
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.
3363898	T07	ROOF TRUSS	1	2	T29562143

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:19:12 2023 Page 1

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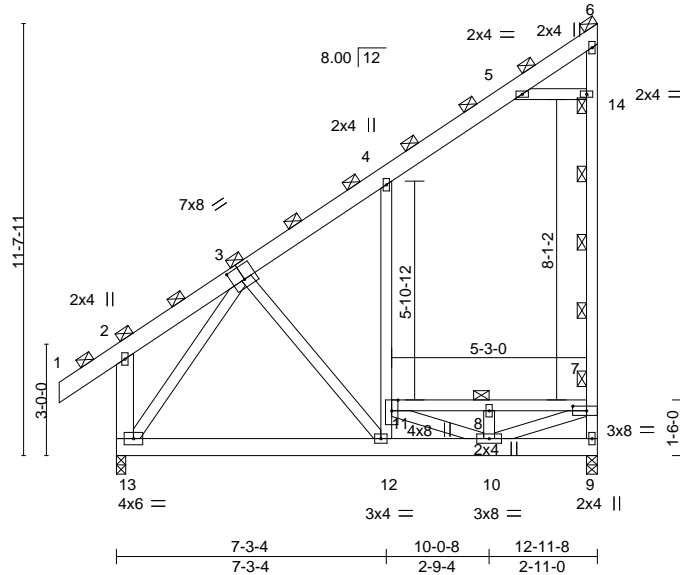


Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [7:0-4-8,0-1-8]

LOADING (psf)	SPACING-	3-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.60	Vert(LL)	0.18 12-13	>857	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.61	Vert(CT)	-0.33 12-13	>464	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.64	Horz(CT)	0.00 9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS	Attic	0.07 7-11	943	360	Weight: 278 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2 *Except*
 7-11: 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 6-9: 2x4 SP M 31, 4-12: 2x4 SP No.2, 2-13: 2x6 SP No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
 (Switched from sheeted: Spacing > 2-8-0).
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 6, 2, 8

REACTIONS.

(size) 9=0-3-8, 13=0-3-0
 Max Horz 13=438(LC 12)
 Max Uplift 9=216(LC 12)
 Max Grav 9=1520(LC 20), 13=1002(LC 20)

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

TOP CHORD 3-4=-557/40, 4-5=-340/256, 5-6=-235/756, 7-9=-1535/494, 7-14=-541/263,
 6-14=-509/275, 2-13=-276/212
 BOT CHORD 12-13=-598/738, 10-12=-401/743, 9-10=-680/427, 8-11=-1075/17, 7-8=-1075/17
 WEBS 4-11=0/450, 3-12=-554/521, 5-14=-764/177, 8-10=-500/0, 10-11=0/729, 7-10=-597/1944,
 3-13=-635/115

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 12-9-12 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 4-5, 5-14; Wall dead load (5.0psf) on member(s). 4-11
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 8-11, 7-8
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=216.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

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

January 11,2023

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

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

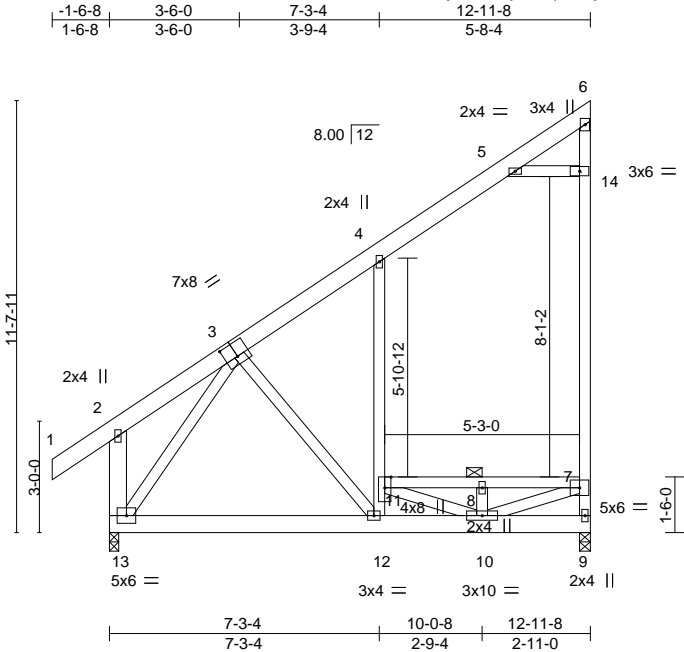


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.
3363898	T08	ROOF TRUSS	1	1	T29562144

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Wed Jan 11 06:19:13 2023
Page 1

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Scale = 1:62.1

Plate Offsets (X,Y)--		[3:0-4-0,0-4-8]							
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 0.69	Vert(LL)	0.23 12-13	>643	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.74	Vert(CT)	-0.43 12-13	>348	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.85	Horz(CT)	0.00 9	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS	Attic	-0.09 7-11	707	360	Weight: 139 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2

BOT CHORD 2x6 SP No.2 *Except*

7-11: 2x4 SP No.2

WEBS 2x4 SP No.3 *Except*

6-9: 2x4 SP M 31, 4-12: 2x4 SP No.2, 2-13: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

JOINTS 1 Brace at Jt(s): 8

REACTIONS. (size) 9=0-3-8, 13=0-3-0

Max Horz 13=292(LC 12)

Max Uplift 9=-144(LC 12)

Max Grav 9=1014(LC 20), 13=668(LC 20)

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

TOP CHORD 3-4=-372/27, 5-6=-157/504, 7-9=-1023/329, 7-14=-361/175, 6-14=-339/183

BOT CHORD 12-13=-398/492, 10-12=-268/495, 9-10=-453/285, 8-11=-716/11, 7-8=-716/11

WEBS 4-11=0/300, 3-12=-369/347, 5-14=-510/118, 8-10=-333/0, 10-11=0/486, 7-10=-398/1296, 3-13=-423/77

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., 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 12-9-12 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) Ceiling dead load (5.0 psf) on member(s). 4-5, 5-14; Wall dead load (5.0psf) on member(s).4-11
 - 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 8-11, 7-8
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=144.
 - 8) Attic room checked for L/360 deflection.

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

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

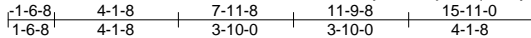
January 11,2023



Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562145
3363898	T09	Common	8	1		

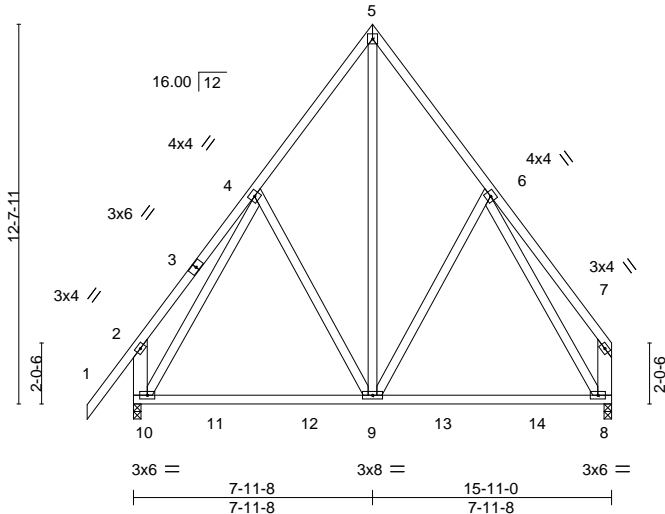
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:19:15 2023 Page 1
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4x4 =

Scale = 1:76.7



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 0.23	Vert(LL)	-0.11 9-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.68	Vert(CT)	-0.19 9-10	>997	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.93	Horz(CT)	0.01 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 140 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 10=0-3-0, 8=0-3-0
Max Horz 10=343(LC 9)
Max Uplift 10=-145(LC 13), 8=-137(LC 12)
Max Grav 10=789(LC 20), 8=721(LC 19)

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

TOP CHORD 2-4=-284/244, 4-5=-509/264, 5-6=-511/266, 2-10=-352/254
BOT CHORD 9-10=-187/409, 8-9=-57/319
WEBS 5-9=-322/551, 6-9=-229/262, 4-9=-222/261, 4-10=-553/102, 6-8=-516/111

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 7-11-8, Exterior(2R) 7-11-8 to 10-11-8, Interior(1) 10-11-8 to 15-8-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=145, 8=137.

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Date:

January 11,2023

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Chesterfield, MO 63017

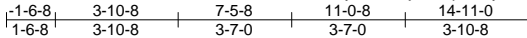
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562148
3363898	T11	Common	2	1	Job Reference (optional)	

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

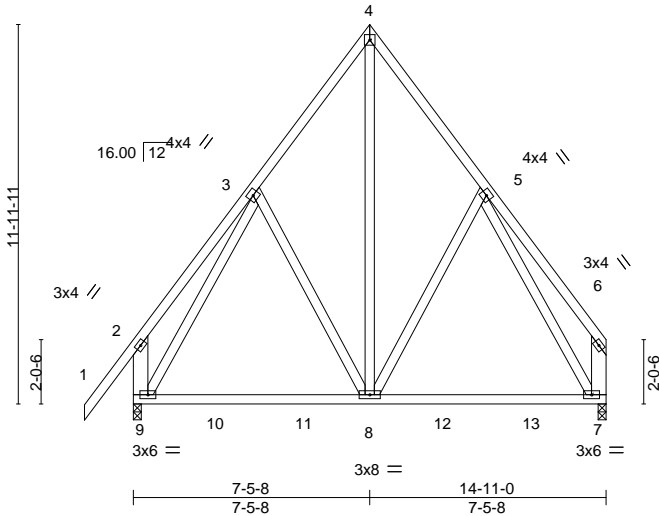
8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:19:20 2023 Page 1

ID:rBnvGlyPNoMajBl2sqc2kZycQXD-8?HZlfjtYrH9VW7ScXYTVsqUu7aT8dZFm?AIFWzwWCr



4x4 =

Scale = 1:72.7



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 0.21	Vert(LL)	-0.09	8-9	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.59	Vert(CT)	-0.14	8-9	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.78	Horz(CT)	0.01	7	n/a	n/a	
BCDL 10.0	Code FBC2020/TP12014		Matrix-MS						
								Weight: 132 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-9,6-7: 2x6 SP No.2

BRACING-

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

REACTIONS.

(size) 9=0-3-0, 7=0-3-0
Max Horz 9=327(LC 9)
Max Uplift 9=137(LC 13), 7=129(LC 12)
Max Grav 9=742(LC 20), 7=674(LC 19)

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

TOP CHORD 2-3=-264/232, 3-4=-470/251, 4-5=-472/253, 2-9=-333/243
BOT CHORD 8-9=-178/378, 7-8=-55/293
WEBS 4-8=-306/515, 3-9=-525/95, 5-7=-485/106

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 7-5-8, Exterior(2R) 7-5-8 to 10-5-8, Interior(1) 10-5-8 to 14-8-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 9 and 129 lb uplift at joint 7.

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

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

January 11,2023

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

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

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.
3363898	T12	Common Girder	1	2	T29562150

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:19:24 2023 Page 1

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SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

5x6 ||

Scale = 1:72.7

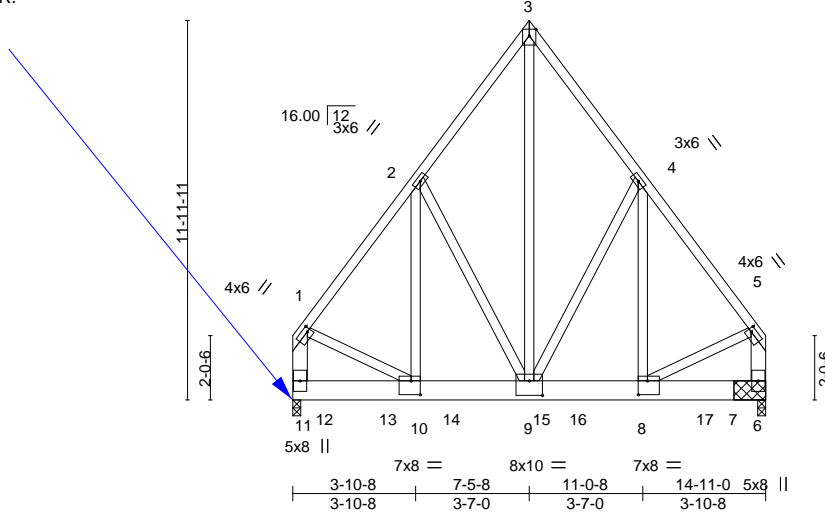


Plate Offsets (X,Y)--	[1:0-1-4,0-1-12], [3:Edge,0-2-8], [5:0-1-4,0-1-12], [8:0-3-8,0-5-4], [9:0-5-0,0-5-8], [10:0-3-8,0-5-4]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.26	Vert(LL)	-0.06	9-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.17	Vert(CT)	-0.09	9-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.64	Horz(CT)	0.01	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 329 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
3-9: 2x4 SP No.2, 1-11,5-6: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 11=0-3-0 (req. 0-4-2), 6=(0-3-0 + bearing block) (req. 0-3-10)
Max Horz 11=-288(LC 4)
Max Uplift 11=-1155(LC 9), 6=-1012(LC 8)
Max Grav 11=7011(LC 2), 6=6095(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4773/839, 2-3=-3701/774, 3-4=-3701/774, 4-5=-4741/834, 1-11=-5095/866, 5-6=-5073/863
BOT CHORD 10-11=-320/452, 9-10=-576/2818, 8-9=-461/2799, 6-8=-77/260
WEBS 3-9=-1123/5668, 4-9=-1271/416, 4-8=-315/1816, 2-9=-1312/422, 2-10=-324/1878, 1-10=-461/2819, 5-8=-465/2829

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 2x8 SP 2400F 2.0E bearing block 12" long at jt. 6 attached to each face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners per block. Bearing is assumed to be SP No.2.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- WARNING: Required bearing size at joint(s) 11 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=1155, 6=1012.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1743 lb down and 284 lb up at 0-10-12, 1740 lb down and 288 lb up at 2-10-12, 1740 lb down and 288 lb up at 4-10-12, 1740 lb down and 288 lb up at 6-10-12, 1740 lb down and 288 lb up at 8-10-12, and 1740 lb down and 288 lb up at 10-10-12, and 1740 lb down and 288 lb up at 12-10-12, and 1740 lb down and 288 lb up at 14-10-12, and 1740 lb down and 288 lb up at 16-10-12, and 1740 lb down and 288 lb up at 18-10-12, and 1740 lb down and 288 lb up at 20-10-12, and 1740 lb down and 288 lb up at 22-10-12, and 1740 lb down and 288 lb up at 24-10-12, and 1740 lb down and 288 lb up at 26-10-12, and 1740 lb down and 288 lb up at 28-10-12, and 1740 lb down and 288 lb up at 30-10-12, and 1740 lb down and 288 lb up at 32-10-12, and 1740 lb down and 288 lb up at 34-10-12, and 1740 lb down and 288 lb up at 36-10-12, and 1740 lb down and 288 lb up at 38-10-12, and 1740 lb down and 288 lb up at 40-10-12, and 1740 lb down and 288 lb up at 42-10-12, and 1740 lb down and 288 lb up at 44-10-12, and 1740 lb down and 288 lb up at 46-10-12, and 1740 lb down and 288 lb up at 48-10-12, and 1740 lb down and 288 lb up at 50-10-12, and 1740 lb down and 288 lb up at 52-10-12, and 1740 lb down and 288 lb up at 54-10-12, and 1740 lb down and 288 lb up at 56-10-12, and 1740 lb down and 288 lb up at 58-10-12, and 1740 lb down and 288 lb up at 60-10-12, and 1740 lb down and 288 lb up at 62-10-12, and 1740 lb down and 288 lb up at 64-10-12, and 1740 lb down and 288 lb up at 66-10-12, and 1740 lb down and 288 lb up at 68-10-12, and 1740 lb down and 288 lb up at 70-10-12, and 1740 lb down and 288 lb up at 72-10-12, and 1740 lb down and 288 lb up at 74-10-12, and 1740 lb down and 288 lb up at 76-10-12, and 1740 lb down and 288 lb up at 78-10-12, and 1740 lb down and 288 lb up at 80-10-12, and 1740 lb down and 288 lb up at 82-10-12, and 1740 lb down and 288 lb up at 84-10-12, and 1740 lb down and 288 lb up at 86-10-12, and 1740 lb down and 288 lb up at 88-10-12, and 1740 lb down and 288 lb up at 90-10-12, and 1740 lb down and 288 lb up at 92-10-12, and 1740 lb down and 288 lb up at 94-10-12, and 1740 lb down and 288 lb up at 96-10-12, and 1740 lb down and 288 lb up at 98-10-12, and 1740 lb down and 288 lb up at 100-10-12, and 1740 lb down and 288 lb up at 102-10-12, and 1740 lb down and 288 lb up at 104-10-12, and 1740 lb down and 288 lb up at 106-10-12, and 1740 lb down and 288 lb up at 108-10-12, and 1740 lb down and 288 lb up at 110-10-12, and 1740 lb down and 288 lb up at 112-10-12, and 1740 lb down and 288 lb up at 114-10-12, and 1740 lb down and 288 lb up at 116-10-12, and 1740 lb down and 288 lb up at 118-10-12, and 1740 lb down and 288 lb up at 120-10-12, and 1740 lb down and 288 lb up at 122-10-12, and 1740 lb down and 288 lb up at 124-10-12, and 1740 lb down and 288 lb up at 126-10-12, and 1740 lb down and 288 lb up at 128-10-12, and 1740 lb down and 288 lb up at 130-10-12, and 1740 lb down and 288 lb up at 132-10-12, and 1740 lb down and 288 lb up at 134-10-12, and 1740 lb down and 288 lb up at 136-10-12, and 1740 lb down and 288 lb up at 138-10-12, and 1740 lb down and 288 lb up at 140-10-12, and 1740 lb down and 288 lb up at 142-10-12, and 1740 lb down and 288 lb up at 144-10-12, and 1740 lb down and 288 lb up at 146-10-12, and 1740 lb down and 288 lb up at 148-10-12, and 1740 lb down and 288 lb up at 150-10-12, and 1740 lb down and 288 lb up at 152-10-12, and 1740 lb down and 288 lb up at 154-10-12, and 1740 lb down and 288 lb up at 156-10-12, and 1740 lb down and 288 lb up at 158-10-12, and 1740 lb down and 288 lb up at 160-10-12, and 1740 lb down and 288 lb up at 162-10-12, and 1740 lb down and 288 lb up at 164-10-12, and 1740 lb down and 288 lb up at 166-10-12, and 1740 lb down and 288 lb up at 168-10-12, and 1740 lb down and 288 lb up at 170-10-12, and 1740 lb down and 288 lb up at 172-10-12, and 1740 lb down and 288 lb up at 174-10-12, and 1740 lb down and 288 lb up at 176-10-12, and 1740 lb down and 288 lb up at 178-10-12, and 1740 lb down and 288 lb up at 180-10-12, and 1740 lb down and 288 lb up at 182-10-12, and 1740 lb down and 288 lb up at 184-10-12, and 1740 lb down and 288 lb up at 186-10-12, and 1740 lb down and 288 lb up at 188-10-12, and 1740 lb down and 288 lb up at 190-10-12, and 1740 lb down and 288 lb up at 192-10-12, and 1740 lb down and 288 lb up at 194-10-12, and 1740 lb down and 288 lb up at 196-10-12, and 1740 lb down and 288 lb up at 198-10-12, and 1740 lb down and 288 lb up at 200-10-12, and 1740 lb down and 288 lb up at 202-10-12, and 1740 lb down and 288 lb up at 204-10-12, and 1740 lb down and 288 lb up at 206-10-12, and 1740 lb down and 288 lb up at 208-10-12, and 1740 lb down and 288 lb up at 210-10-12, and 1740 lb down and 288 lb up at 212-10-12, and 1740 lb down and 288 lb up at 214-10-12, and 1740 lb down and 288 lb up at 216-10-12, and 1740 lb down and 288 lb up at 218-10-12, and 1740 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352-10-12, and 1740 lb down and 288 lb up at 354-10-12, and 1740 lb down and 288 lb up at 356-10-12, and 1740 lb down and 288 lb up at 358-10-12, and 1740 lb down and 288 lb up at 360-10-12, and 1740 lb down and 288 lb up at 362-10-12, and 1740 lb down and 288 lb up at 364-10-12, and 1740 lb down and 288 lb up at 366-10-12, and 1740 lb down and 288 lb up at 368-10-12, and 1740 lb down and 288 lb up at 370-10-12, and 1740 lb down and 288 lb up at 372-10-12, and 1740 lb down and 288 lb up at 374-10-12, and 1740 lb down and 288 lb up at 376-10-12, and 1740 lb down and 288 lb up at 378-10-12, and 1740 lb down and 288 lb up at 380-10-12, and 1740 lb down and 288 lb up at 382-10-12, and 1740 lb down and 288 lb up at 384-10-12, and 1740 lb down and 288 lb up at 386-10-12, and 1740 lb down and 288 lb up at 388-10-12, and 1740 lb down and 288 lb up at 390-10-12, and 1740 lb down and 288 lb up at 392-10-12, and 1740 lb down and 288 lb up at 394-10-12, and 1740 lb down and 288 lb up at 396-10-12, and 1740 lb down and 288 lb up at 398-10-12, and 1740 lb down and 288 lb up at 400-10-12, and 1740 lb down and 288 lb up at 402-10-12, and 1740 lb down and 288 lb up at 404-10-12, and 1740 lb down and 288 lb up at 406-10-12, and 1740 lb down and 288 lb up at 408-10-12, and 1740 lb down and 288 lb up at 410-10-12, and 1740 lb down and 288 lb up at 412-10-12, and 1740 lb down and 288 lb up at 414-10-12, and 1740 lb down and 288 lb up at 416-10-12, and 1740 lb down and 288 lb up at 418-10-12, and 1740 lb down and 288 lb up at 420-10-12, and 1740 lb down and 288 lb up at 422-10-12, and 1740 lb down and 288 lb up at 424-10-12, and 1740 lb down and 288 lb up at 426-10-12, and 1740 lb down and 288 lb up at 428-10-12, and 1740 lb down and 288 lb up at 430-10-12, and 1740 lb down and 288 lb up at 432-10-12, and 1740 lb down and 288 lb up at 434-10-12, and 1740 lb down and 288 lb up at 436-10-12, and 1740 lb down and 288 lb up at 438-10-12, and 1740 lb down and 288 lb up at 440-10-12, and 1740 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up at 530-10-12, and 1740 lb down and 288 lb up at 532-10-12, and 1740 lb down and 288 lb up at 534-10-12, and 1740 lb down and 288 lb up at 536-10-12, and 1740 lb down and 288 lb up at 538-10-12, and 1740 lb down and 288 lb up at 540-10-12, and 1740 lb down and 288 lb up at 542-10-12, and 1740 lb down and 288 lb up at 544-10-12, and 1740 lb down and 288 lb up at 546-10-12, and 1740 lb down and 288 lb up at 548-10-12, and 1740 lb down and 288 lb up at 550-10-12, and 1740 lb down and 288 lb up at 552-10-12, and 1740 lb down and 288 lb up at 554-10-12, and 1740 lb down and 288 lb up at 556-10-12, and 1740 lb down and 288 lb up at 558-10-12, and 1740 lb down and 288 lb up at 560-10-12, and 1740 lb down and 288 lb up at 562-10-12, and 1740 lb down and 288 lb up at 564-10-12, and 1740 lb down and 288 lb up at 566-10-12, and 1740 lb down and 288 lb up at 568-10-12, and 1740 lb down and 288 lb up at 570-10-12, and 1740 lb down and 288 lb up at 572-10-12, and 1740 lb down and 288 lb up at 574-10-12, and 1740 lb down and 288 lb up at 576-10-12, and 1740 lb down and 288 lb up at 578-10-12, and 1740 lb down and 288 lb up at 580-10-12, and 1740 lb down and 288 lb up at 582-10-12, and 1740 lb down and 288 lb up at 584-10-12, and 1740 lb down and 288 lb up at 586-10-12, and 1740 lb down and 288 lb up at 588-10-12, and 1740 lb down and 288 lb up at 590-10-12, and 1740 lb down and 288 lb up at 592-10-12, and 1740 lb down and 288 lb up at 594-10-12, and 1740 lb down and 288 lb up at 596-10-12, and 1740 lb down and 288 lb up at 598-10-12, and 1740 lb down and 288 lb up at 600-10-12, and 1740 lb down and 288 lb up at 602-10-12, and 1740 lb down and 288 lb up at 604-10-12, and 1740 lb down and 288 lb up at 606-10-12, and 1740 lb down and 288 lb up at 608-10-12, and 1740 lb down and 288 lb up at 610-10-12, and 1740 lb down and 288 lb up at 612-10-12, and 1740 lb down and 288 lb up at 614-10-12, and 1740 lb down and 288 lb up at 616-10-12, and 1740 lb down and 288 lb up at 618-10-12, and 1740 lb down and 288 lb up at 620-10-12, and 1740 lb down and 288 lb up at 622-10-12, and 1740 lb down and 288 lb up at 624-10-12, and 1740 lb down and 288 lb up at 626-10-12, and 1740 lb down and 288 lb up at 628-10-12, and 1740 lb down and 288 lb up at 630-10-12, and 1740 lb down and 288 lb up at 632-10-12, and 1740 lb down and 288 lb up at 634-10-12, and 1740 lb down and 288 lb up at 636-10-12, and 1740 lb down and 288 lb up at 638-10-12, and 1740 lb down and 288 lb up at 640-10-12, and 1740 lb down and 288 lb up at 642-10-12, and 1740 lb down and 288 lb up at 644-10-12, and 1740 lb down and 288 lb up at 646-10-12, and 1740 lb down and 288 lb up at 648-10-12, and 1740 lb down and 288 lb up at 650-10-12, and 1740 lb down and 288 lb up at 652-10-12, and 1740 lb down and 288 lb up at 654-10-12, and 1740 lb down and 288 lb up at 656-10-12, and 1740 lb down and 288 lb up at 658-10-12, and 1740 lb down and 288 lb up at 660-10-12, and 1740 lb down and 288 lb up at 662-10-12, and 1740 lb down and 288 lb up at 664-10-12, and 1740 lb down and 288 lb up at 666-10-12, and 1740 lb down and 288 lb up at 668-10-12, and 1740 lb down and 288 lb up at 670-10-12, and 1740 lb down and 288 lb up at 672-10-12, and 1740 lb down and 288 lb up at 674-10-12, and 1740 lb down and 288 lb up at 676-10-12, and 1740 lb down and 288 lb up at 678-10-12, and 1740 lb down and 288 lb up at 680-10-12, and 1740 lb down and 288 lb up at 682-10-12, and 1740 lb down and 288 lb up at 684-10-12, and 1740 lb down and 288 lb up at 686-10-12, and 1740 lb down and 288 lb up at 688-10-12, and 1740 lb down and 288 lb up at 690-10-12, and 1740 lb down and 288 lb up at 692-10-12, and 1740 lb down and 288 lb up at 694-10-12, and 1740 lb down and 288 lb up at 696-10-12, and 1740 lb down and 288 lb up at 698-10-12, and 1740 lb down and 288 lb up at 700-10-12, and 1740 lb down and 288 lb up at 702-10-12, and 1740 lb down and 288 lb up at 704-10-12, and 1740 lb down and 2

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562150
3363898	T12	Common Girder	1	2	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:19:24 2023 Page 2
ID:rBnvGlyPNoMajBl2sqc2kZycQXD-1mX4b1mOc4nb_7QDrNcPfi?89l2q3Uqrhd8zOHzwWCn

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, 6-11=-20

Concentrated Loads (lb)

Vert: 8=-1532(B) 12=-1536(B) 13=-1532(B) 14=-1532(B) 15=-1532(B) 16=-1532(B) 17=-1532(B)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562151
3363898	T13	Common	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:19:26 2023 Page 1
ID:rBnvGlyPNoMajBI2sqc2kZycQXD-z9fq0joe8h1JDRabzofrk74VNYecXM488xd4SAzwWCI

1-6-8
1-6-8

3-9-0
3-9-0

7-2-8
3-5-8

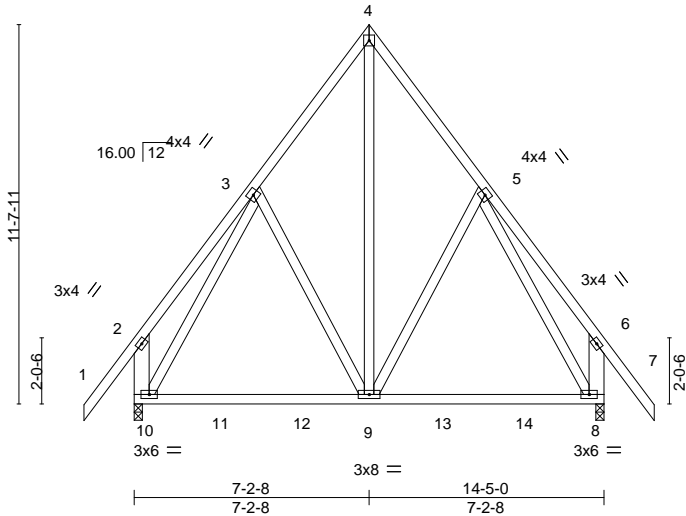
10-8-0
3-5-8

14-5-0
3-9-0

15-11-8
1-6-8

4x4 =

Scale = 1:70.7



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 0.21	Vert(LL)	-0.07 9-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.54	Vert(CT)	-0.12 9-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72	Horz(CT)	0.01 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPJ2014		Matrix-MS					Weight: 133 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-10,6-8: 2x6 SP No.2

BRACING-

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

REACTIONS.

(size) 10=0-3-0, 8=0-3-0
Max Horz 10=-341(LC 10)
Max Uplift 10=-135(LC 13), 8=-135(LC 12)
Max Grav 10=712(LC 20), 8=712(LC 19)

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

TOP CHORD 2-3=-255/226, 3-4=-445/246, 4-5=-445/246, 5-6=-255/226, 2-10=-324/238, 6-8=-324/238
BOT CHORD 9-10=-158/384, 8-9=-40/296
WEBS 4-9=-298/492, 3-10=-505/94, 5-8=-505/93

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 7-2-8, Exterior(2R) 7-2-8 to 10-2-8, Interior(1) 10-2-8 to 15-11-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=135, 8=135.

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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:

January 11,2023

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562152
3363898	T13G	Common Supported Gable	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:19:28 2023 Page 1
ID:rBnvGlyPNoMajBI2sqc2kZycQXD-vXmbQOqufJH0Tlk_4DhLqY9r?MQR?OGRbF6AX3zwWCj

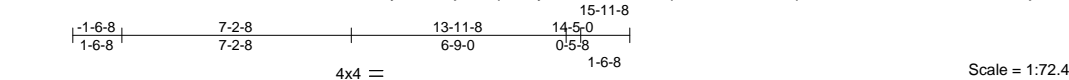


Plate Offsets (X,Y)--		[2:0-4-0,0-1-8], [3:0-1-3,0-1-4], [11:0-1-3,0-1-4], [12:0-4-0,0-1-8], [15:0-3-8,0-3-0], [21:0-3-8,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.21
TCDL 7.0	Lumber DOL	1.25	BC 0.07
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.23
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.01 13 n/r 120
			Vert(CT) -0.02 13 n/r 120
			Horz(CT) 0.00 14 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 147 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
2-21,12-15: 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 21-22,14-15.
WEBS 1 Row at midpt 7-18

REACTIONS.

All bearings 14-5-0.
(lb) - Max Horz 22=322(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 22=331(LC 10), 14=268(LC 11), 19=163(LC 12), 20=157(LC 12), 21=445(LC 12), 17=162(LC 13), 16=158(LC 13), 15=433(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 18, 19, 20, 17, 16 except 22=512(LC 12), 14=489(LC 13), 21=349(LC 10), 15=314(LC 11)

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

TOP CHORD 2-22=488/318, 11-12=-235/252, 12-14=-467/346
BOT CHORD 21-22=-294/277, 20-21=-222/281, 19-20=-222/281, 18-19=-222/281, 17-18=-222/281, 16-17=-222/281, 15-16=-222/281
WEBS 7-18=-251/168, 2-21=-346/436, 12-15=-327/427

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-8 to 1-5-8, Exterior(2N) 1-5-8 to 7-2-8, Corner(3R) 7-2-8 to 10-2-8, Exterior(2N) 10-2-8 to 15-11-8 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 331 lb uplift at joint 22, 268 lb uplift at joint 14, 163 lb uplift at joint 19, 157 lb uplift at joint 20, 445 lb uplift at joint 21, 162 lb uplift at joint 17, 158 lb uplift at joint 16 and 433 lb uplift at joint 15.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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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:

January 11,2023

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.
3363898	T14	Common Girder	1	2	T29562153

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Wed Jan 11 06:19:31 2023
Page 1

ID:rBnvGlyPNoMajBl2sqc2kZycQXD-K6Sj3QsnyEgbKCTZILE2RBnNFZSSCeGtlDLq8NzwWCg

3-9-0
3-9-0

7-2-8
3-5-8

10-8-0
3-5-8

14-5-0
3-9-0

4x6 ||

Scale = 1:70.7

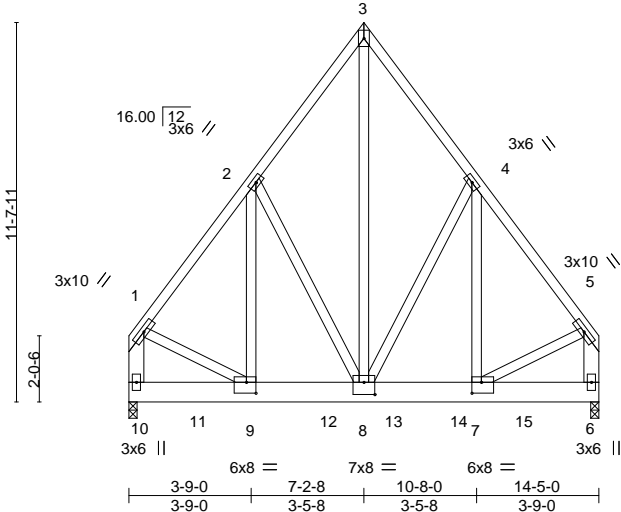


Plate Offsets (X,Y)--		[7:0-3-8,0-4-0], [8:0-4-0,0-4-8], [9:0-3-8,0-4-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.14
TCDL 7.0	Lumber DOL	1.25	BC 0.11
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.66
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.03 8 >999 240
			Vert(CT) -0.06 7-8 >999 180
			Horz(CT) 0.00 6 n/a n/a
			PLATES
			MT20
			GRIP
			244/190
			Weight: 307 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
1-10,5-6: 2x6 SP No.2

BRACING-

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

REACTIONS.

(size) 10=0-3-0, 6=0-3-0
Max Horz 10=-280(LC 4)
Max Uplift 10=-637(LC 9), 6=-767(LC 8)
Max Grav 10=3884(LC 2), 6=4744(LC 2)

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

TOP CHORD 1-2=-2984/537, 2-3=-2322/536, 3-4=-2322/536, 4-5=-2916/531, 1-10=-3222/549, 5-6=-3160/545
BOT CHORD 9-10=-291/350, 8-9=-394/1750, 7-8=-282/1709
WEBS 3-8=-747/3457, 4-8=-766/325, 4-7=-187/1009, 2-8=-837/332, 2-9=-197/1140, 1-9=-286/1775, 5-7=-288/1759

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 637 lb uplift at joint 10 and 767 lb uplift at joint 6.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1119 lb down and 180 lb up at 2-0-4, 1119 lb down and 180 lb up at 4-0-4, 1119 lb down and 180 lb up at 6-0-4, 1083 lb down and 180 lb up at 8-0-4, 1083 lb down and 180 lb up at 10-0-4, and 1083 lb down and 180 lb up at 12-0-4, and 1127 lb down and 171 lb up at 14-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2

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

January 11,2023

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562153
3363898	T14	Common Girder	1	2	Job Reference (optional)	

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, 6-10=-20

Concentrated Loads (lb)

Vert: 6=-1010(B) 9=-1002(B) 11=-1002(B) 12=-1002(B) 13=-1002(B) 14=-1002(B) 15=-1002(B)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562154
3363898	T15	Common	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022
MiTek Industries, Inc.
Wed Jan 11 06:19:33 2023
Page 1

ID:rBnvGlyPNoMajBI2sqc2kZycQXD-GVaUU6t1UrwJZWcxtmHWXctfPN6kgcvAlXqxCgzWCE

1-0-0

5-8-0

11-4-0

12-4-0

1-0-0

5-8-0

5-8-0

1-0-0

4x4 =

Scale = 1:58.3

Plate Offsets (X,Y)--	[2:0-2-4,0-1-8], [4:0-2-4,0-1-8]								
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 0.42	Vert(LL)	-0.02 6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.25	Vert(CT)	-0.04 6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.00 6	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS					Weight: 88 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-8,4-6: 2x6 SP No.2

BRACING-

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

REACTIONS.

(size) 8=0-4-0, 6=0-4-0
Max Horz 8=273(LC 11)
Max Uplift 8=-110(LC 8), 6=-110(LC 9)
Max Grav 8=469(LC 1), 6=469(LC 1)

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

TOP CHORD 2-3=-345/245, 3-4=-345/245, 2-8=-420/238, 4-6=-420/238
BOT CHORD 7-8=-299/326
WEBS 2-7=-196/255, 4-7=-198/256

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-8-0, Exterior(2R) 5-8-0 to 8-8-0, Interior(1) 8-8-0 to 12-4-0 zone; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 8 and 110 lb uplift at joint 6.

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

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

January 11,2023

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

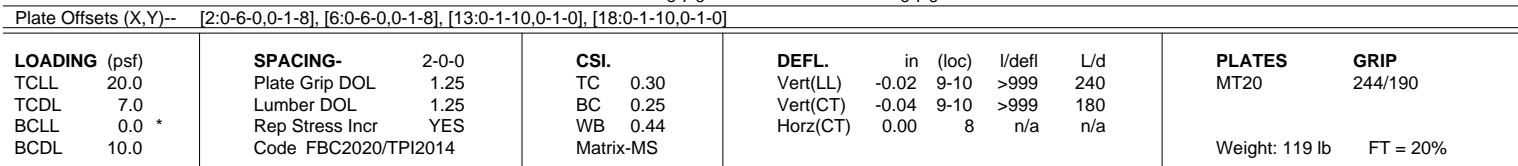
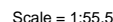
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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

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

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:19:35 2023 Page 1
ID:rBnvGlyPNomaJBI2sqc2kZycQXD-CuhEuovH0SA1opmK_BJ_c1y1IAne8VdSDrJ2H9zwWCc



REACTIONS. (size) 10=0-3-8, 8=0-3-8
 Max Horz 10=-271(LC 10)
 Max Uplift 10=-104(LC 13), 8=-104(LC 12)
 Max Gray 10=495(LC 1), 8=495(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-344/288, 4-6=-344/288, 2-10=-446/285, 6-8=-446/285
 BOT CHORD 9-10=-312/353, 8-9=-197/275
 WEBS 4-9=-313/214, 2-9=-252/307, 6-9=-255/309

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCFL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCp=-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 5-7-8, Corner(3R) 5-7-8 to 8-7-8, Exterior(2N) 8-7-8 to 12-9-8 zone; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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" 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" tall by 2'-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 104 lb uplift at joint 10 and 104 lb uplift at joint 8.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

January 11, 2023



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



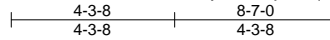
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.
3363898	T16	Common	2	1	T29562156
Job Reference (optional)					

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:19:36 2023 Page 1

ID:rBnvGlyPNoMajBI2sqc2kZycQXD-g4Fc68wvnmIuQzLWYuqD8EUC4a8?t2qcRV2bpbzwWCb



4x4 =

Scale = 1:60.5

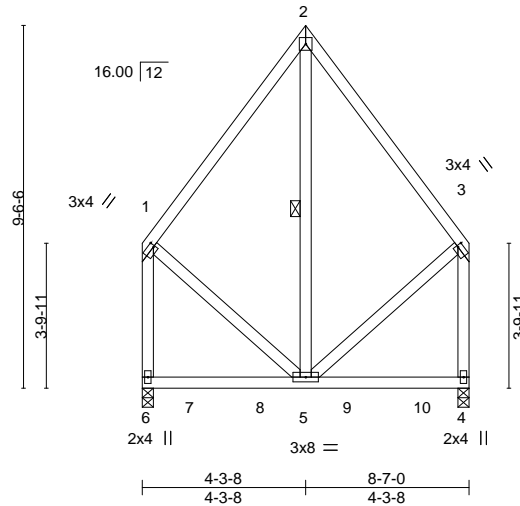


Plate Offsets (X,Y)-- [1:0-0-8,0-1-8], [3:0-0-8,0-1-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	-0.01 4-5 >999 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.01 4-5 >999 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00 4 n/a n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS				Weight: 74 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-5

REACTIONS.

(size) 6=0-3-8, 4=0-3-8
Max Horz 6=132(LC 9)
Max Uplift 6=115(LC 8), 4=115(LC 9)
Max Grav 6=307(LC 1), 4=307(LC 1)

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

TOP CHORD 1-6=-270/167, 3-4=-270/167

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 4-3-8, Exterior(2R) 4-3-8 to 7-3-8, Interior(1) 7-3-8 to 8-5-4 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) 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 115 lb uplift at joint 6 and 115 lb uplift at joint 4.

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

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

January 11,2023

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

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

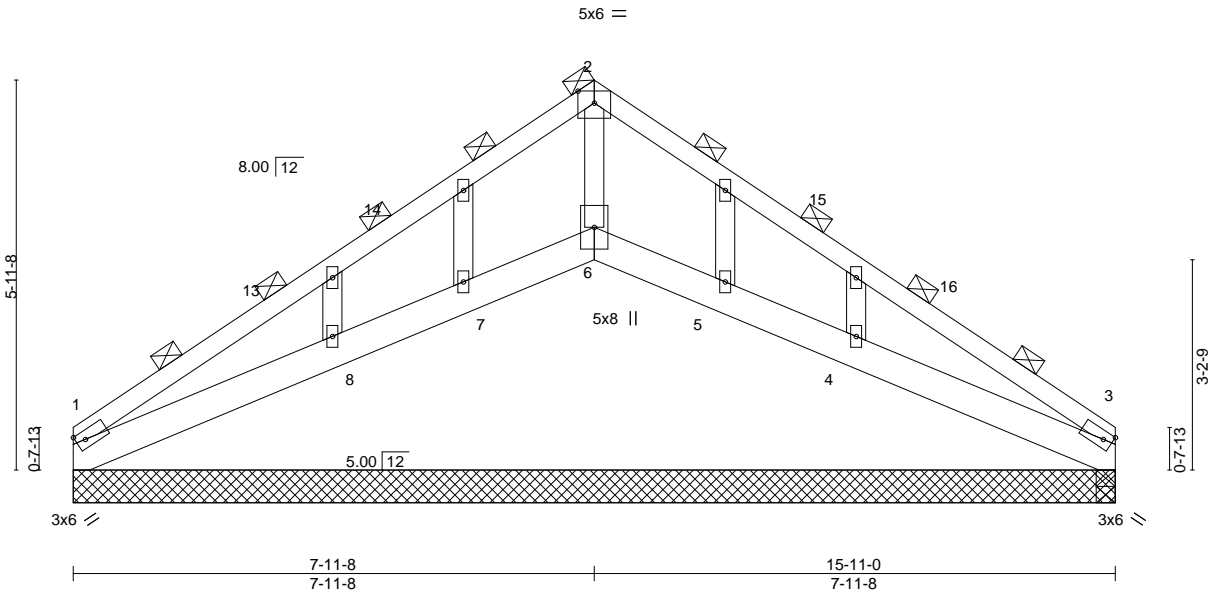
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562158
3363898	T17G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Wed Jan 11 06:19:40 2023
Page 1
ID:rBnvGlyPN0MajBI2sqc2kZycQXD-ZrV7yVzQr?oJvbfInkv9J4fmBBUGprZCM60pyMzwWCX
15-11-0
7-11-8



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 0.77	Vert(LL)	-0.01	3-4	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.19	Vert(CT)	-0.01	3-4	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2020/TP12014		Matrix-S						
								Weight: 80 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.).
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 15-11-0.
 (lb) - Max Horz 1=124(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 3, 7, 8, 5, 4 except 6=109(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 3, 3, 7, 8, 5, 4 except 6=477(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-6=388/130

- 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 7-11-8, Exterior(2R) 7-11-8 to 10-11-8, Interior(1) 10-11-8 to 15-11-0 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) 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) 1, 3, 7, 8, 5, 4 except (jt=lb) 6=109.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

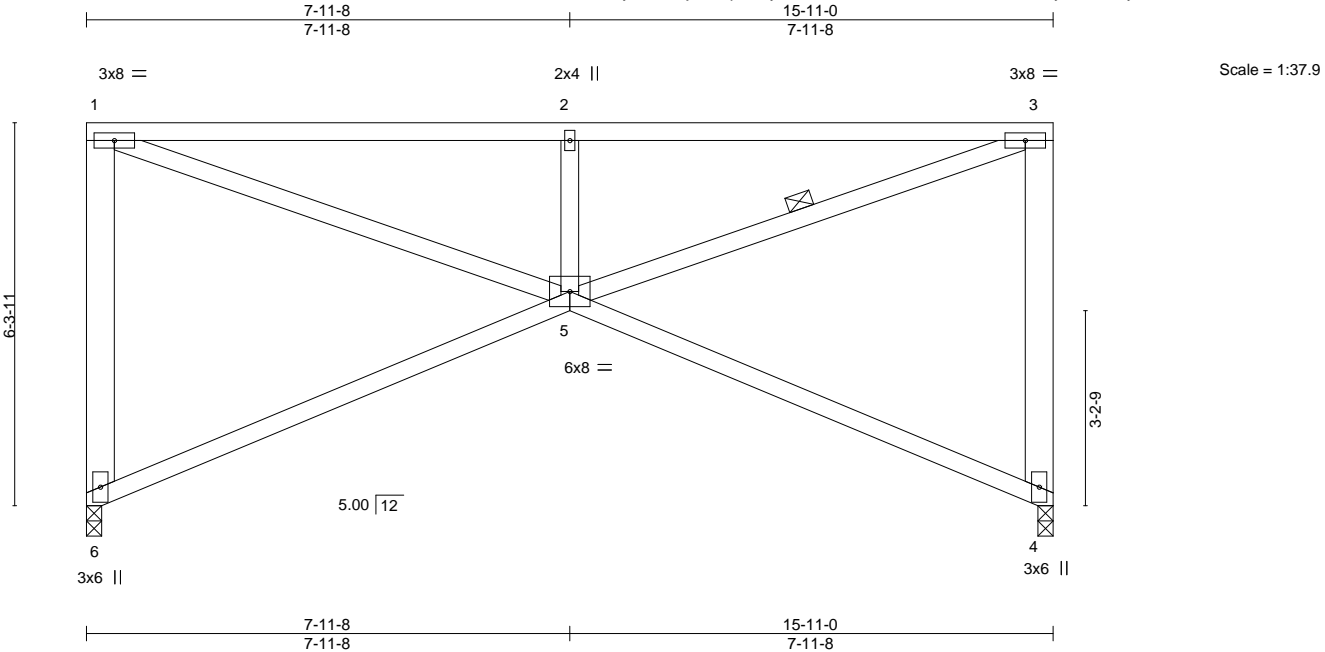
Philip J. O'Regan PE No.58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

January 11,2023

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562159
3363898	T18	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Wed Jan 11 06:19:41 2023
Page 1

ID:rBnvGlyPNoMajBl2sqc2kZycQXD-113V9r_2clwAWkEULRQOrlCvVbm0Y4yLbmmMUozwWCW
15-11-0
7-11-8



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 0.67	Vert(LL)	-0.13	5-6	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.48	Vert(CT)	-0.26	5-6	>712	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.96	Horz(CT)	0.06	4	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 103 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
1-6,3-4: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-5

REACTIONS.

(size) 6=0-3-0, 4=0-3-0
Max Horz 6=-194(LC 8)
Max Uplift 6=-192(LC 8), 4=-192(LC 9)
Max Grav 6=572(LC 1), 4=572(LC 1)

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

TOP CHORD 1-6=-506/455, 1-2=-930/835, 2-3=-930/835, 3-4=-506/506
BOT CHORD 5-6=-259/278
WEBS 1-5=-769/956, 2-5=-471/507, 3-5=-925/956

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) 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
- 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) Bearing at joint(s) 6, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=192, 4=192.

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

January 11,2023

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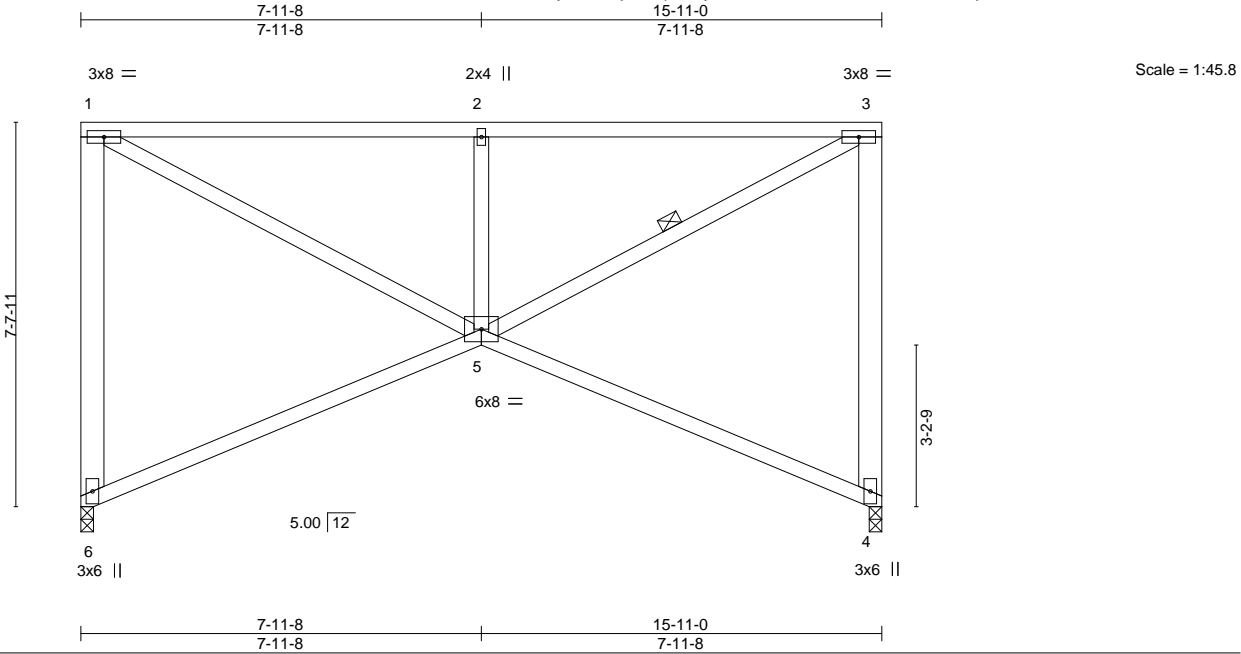


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562160
3363898	T19	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:19:43 2023 Page 1

ID:rBnvGlyPNoMajBI2sqc2kZycQXD-zQAFaX?J7wAum2NsSsSsxjHIEPSU02ae24FTzhzwWCU



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 0.65	Vert(LL)	-0.12	5-6	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.48	Vert(CT)	-0.25	5-6	>746	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.04	4	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
									Weight: 113 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
1-6,3-4: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-9-15 oc bracing.
WEBS 1 Row at midpt 3-5

REACTIONS. (size) 6=0-3-0, 4=0-3-0
Max Horz 6=-237(LC 8)
Max Uplift 6=-211(LC 8), 4=-211(LC 9)
Max Grav 6=572(LC 1), 4=572(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-505/446, 1-2=-633/600, 2-3=-633/600, 3-4=-505/537
BOT CHORD 5-6=-319/325
WEBS 1-5=-536/691, 2-5=-476/509, 3-5=-739/691

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) 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
- 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) Bearing at joint(s) 6, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=211, 4=211.

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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:

January 11,2023

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

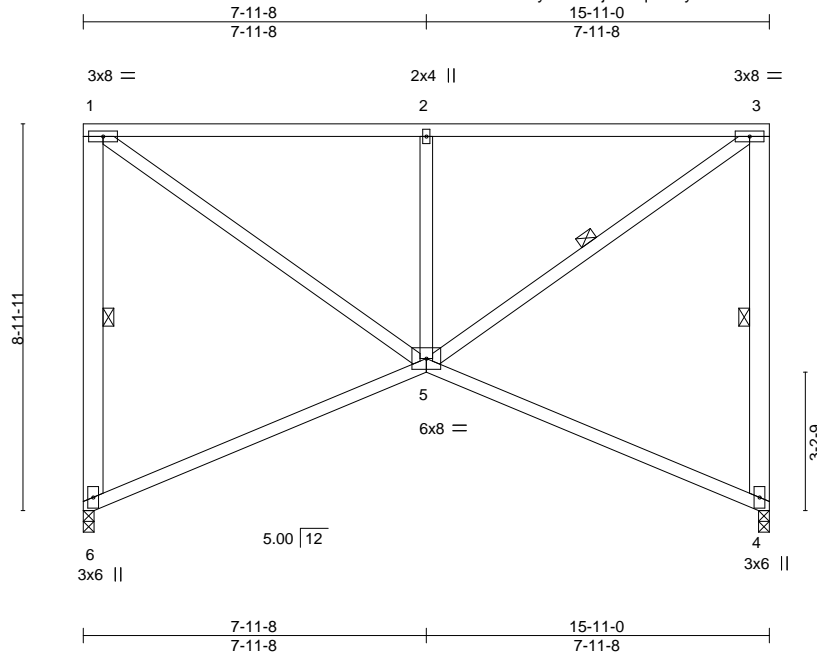


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562161
3363898	T20	Roof Special	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:19:44 2023 Page 1
ID:rBnvGlyPNoMajBI2sqc2kZycQXD-Rckent0xuDIINCy30az5TwqTtpohIW2nHk_157zwWCT



Scale = 1:53.5

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 0.66	Vert(LL)	-0.12	5-6	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.48	Vert(CT)	-0.25	5-6	>754	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.03	4	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 124 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
1-6,3-4: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-1-5 oc bracing.
WEBS 1 Row at midpt 1-6, 3-4, 3-5

REACTIONS.

(size) 6=0-3-0, 4=0-3-0
Max Horz 6=-280(LC 8)
Max Uplift 6=-233(LC 8), 4=-233(LC 9)
Max Grav 6=572(LC 1), 4=572(LC 1)

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

TOP CHORD 1-6=-503/431, 1-2=-480/481, 2-3=-480/481, 3-4=-503/574
BOT CHORD 5-6=-378/373
WEBS 1-5=-411/564, 2-5=-478/511, 3-5=-671/604

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) 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
- 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) Bearing at joint(s) 6, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=233, 4=233.

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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:

January 11,2023

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

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

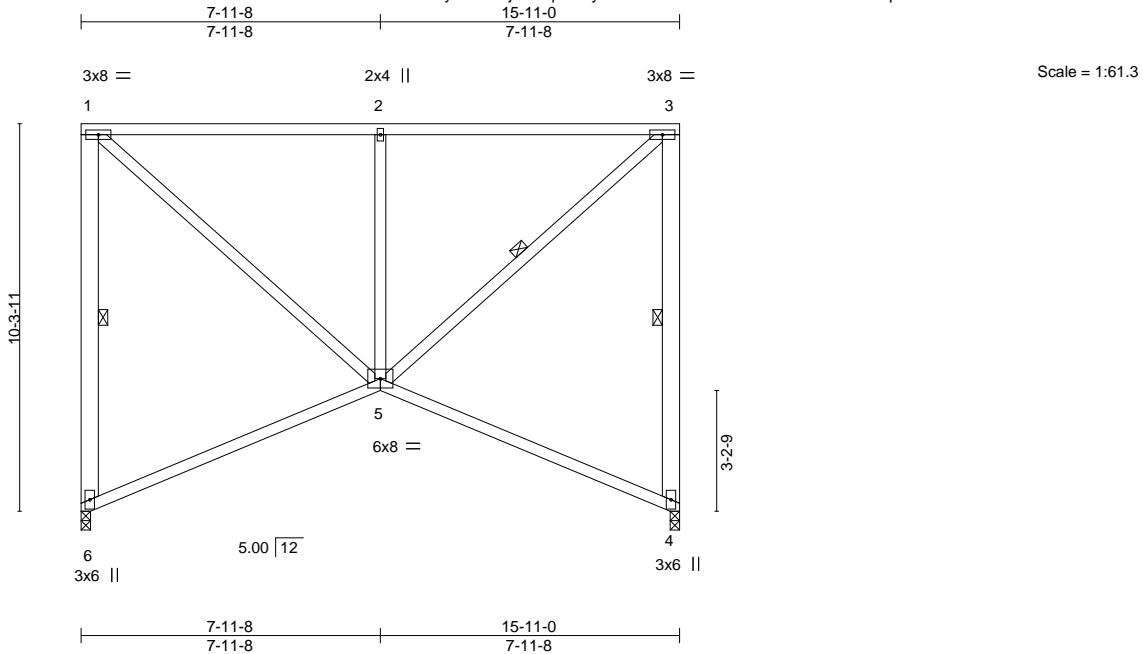


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.
3363898	T21	Roof Special	1	1	T29562162
Job Reference (optional)					

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Wed Jan 11 06:19:46 2023
Page 1

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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 0.66	Vert(LL)	-0.12 5-6	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.49	Vert(CT)	-0.25 5-6	>754	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.69	Horz(CT)	-0.02 4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 134 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
1-6,3-4: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-7-3 oc bracing.
WEBS 1 Row at midpt 1-6, 3-4, 3-5

REACTIONS.

(size) 6=0-3-0, 4=0-3-0
Max Horz 6=-323(LC 8)
Max Uplift 6=-259(LC 8), 4=-259(LC 9)
Max Grav 6=572(LC 1), 4=572(LC 1)

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

TOP CHORD 1-6=-502/413, 1-2=-386/410, 2-3=-386/410, 3-4=-502/616
BOT CHORD 5-6=-436/432
WEBS 1-5=-346/492, 2-5=-480/511, 3-5=-653/596

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) 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
- 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) Bearing at joint(s) 6, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=259, 4=259.

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

January 11,2023

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

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

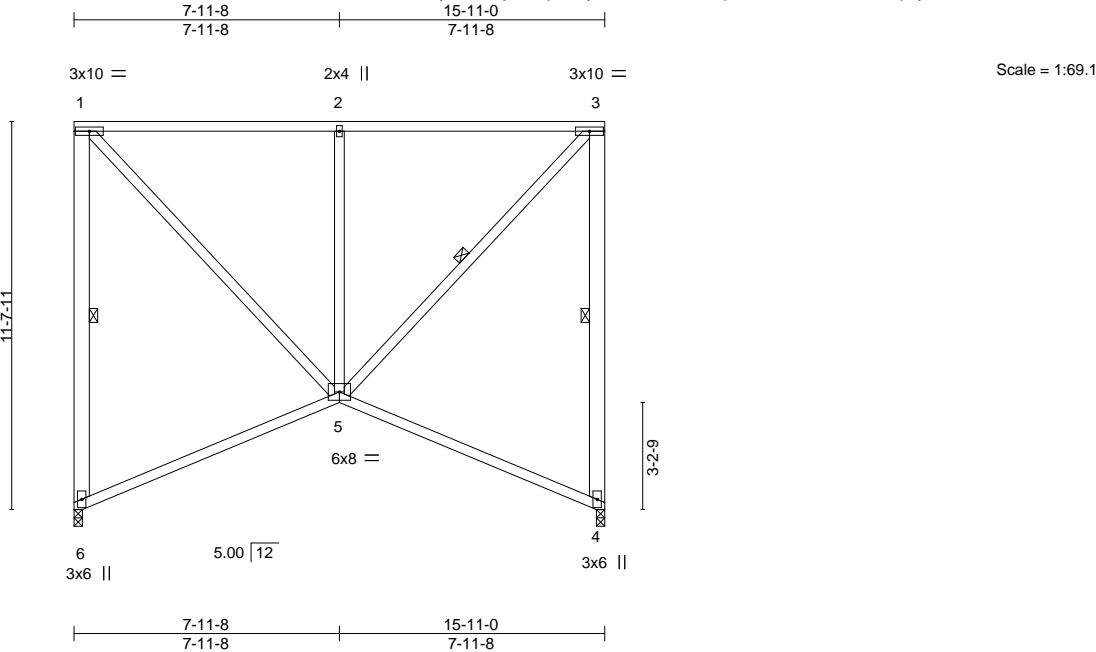


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.
3363898	T22	Roof Special	1	1	T29562163
Job Reference (optional)					

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Wed Jan 11 06:19:47 2023
Page 1

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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 0.67	Vert(LL)	-0.12 5-6	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.49	Vert(CT)	-0.25 5-6	>751	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	-0.02 4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 145 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
1-6,3-4: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-1-14 oc bracing.
WEBS 1 Row at midpt 1-6, 3-4, 3-5

REACTIONS. (size) 6=0-3-0, 4=0-3-0
Max Horz 6=-365(LC 8)
Max Uplift 6=-289(LC 8), 4=-289(LC 9)
Max Grav 6=572(LC 1), 4=572(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-502/434, 1-2=-323/364, 2-3=-323/364, 3-4=-520/664
BOT CHORD 5-6=-493/491
WEBS 1-5=-346/448, 2-5=-481/510, 3-5=-664/613

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) 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
- 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) Bearing at joint(s) 6, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=289, 4=289.

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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:

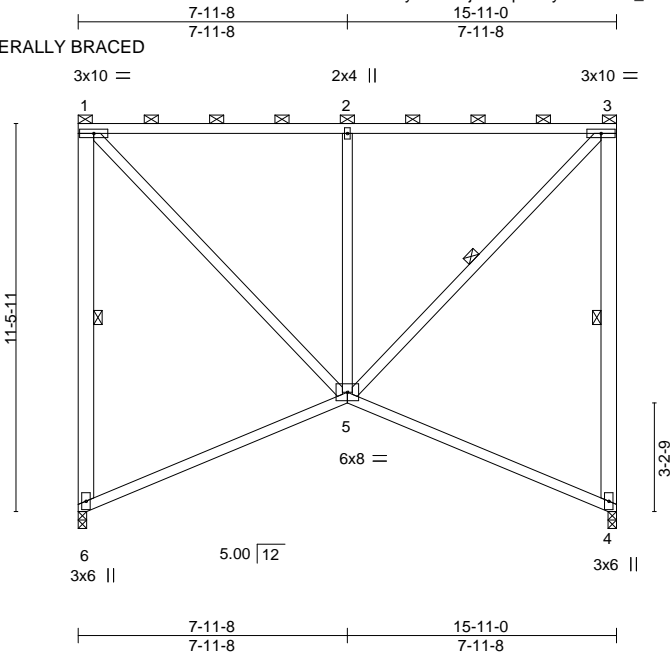
January 11,2023

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.
3363898	T23	Piggyback Base	1	1	T29562164
Job Reference (optional)					

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Wed Jan 11 06:19:48 2023
Page 1

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TOP CHORD UNDER PIGGYBACKS TO BE Laterally Braced
By Purlins At 2'-0" OC. MAX. (TYPICAL)



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 0.70	Vert(LL)	-0.12 5-6	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.49	Vert(CT)	-0.25 5-6	>751	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.80	Horz(CT)	-0.02 4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 144 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-2-7 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 1-6, 3-4, 3-5
1-6,3-4: 2x6 SP No.2	

REACTIONS. (size) 6=0-3-0, 4=0-3-0
Max Horz 6=-360(LC 8)
Max Uplift 6=-285(LC 8), 4=-285(LC 9)
Max Grav 6=572(LC 1), 4=572(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-502/431, 1-2=-330/368, 2-3=-330/368, 3-4=-514/658
BOT CHORD 5-6=-486/484
WEBS 1-5=-346/453, 2-5=-481/511, 3-5=-661/610

- 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) 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
 - 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" tall by 2'-0" wide will fit between the bottom chord and any other members.
 - 6) Bearing at joint(s) 6, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=285, 4=285.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

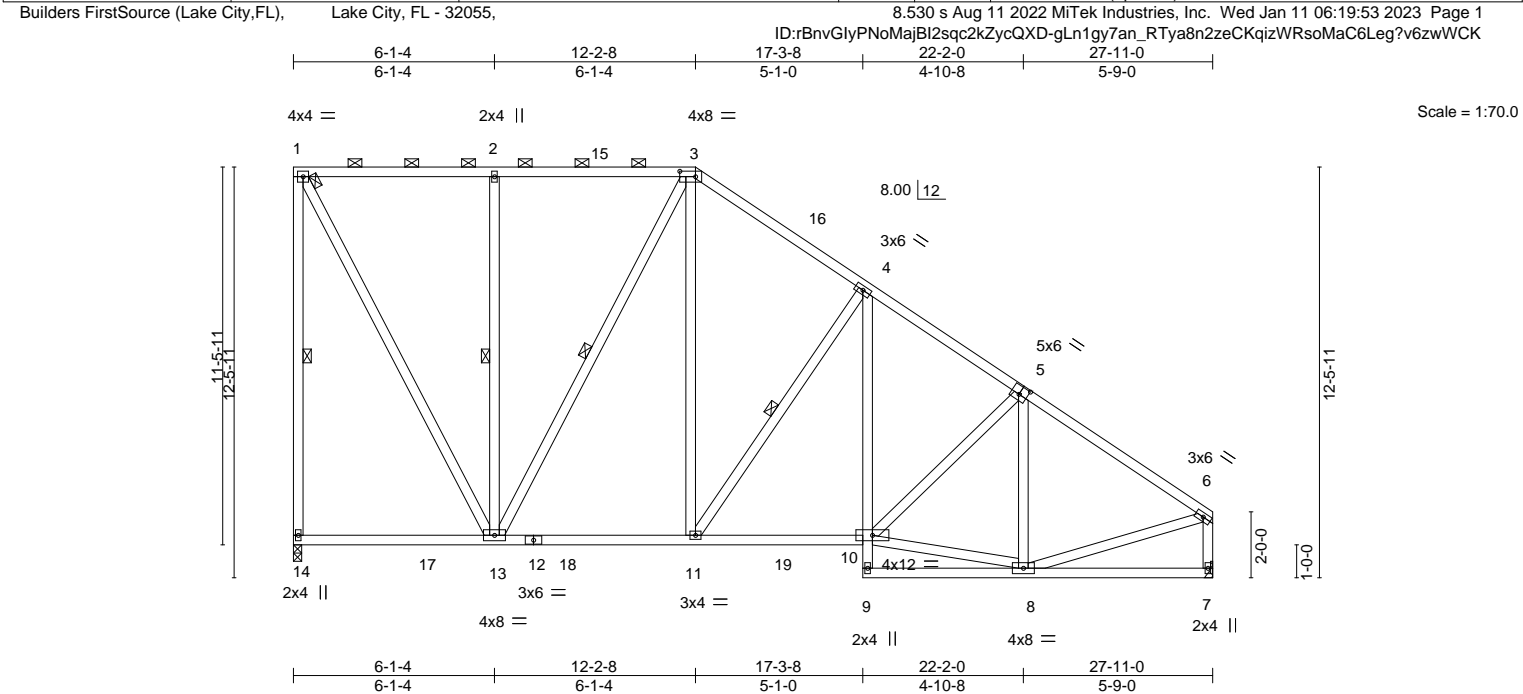
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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 11,2023

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562166
3363898	T25	Piggyback Base	3	1		
Job Reference (optional)						



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 0.86	Vert(LL)	-0.08 10-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.48	Vert(CT)	-0.13 10-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.03 7	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS					Weight: 233 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3.
BOT CHORD 2x4 SP No.2 *Except* 4-9: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 1-13,3-13: 2x4 SP No.2	WEBS 1 Row at midpt 1-14, 2-13, 3-13, 4-11

REACTIONS.	(size) 14=0-3-0, 7=Mechanical
Max Horz	14=-358(LC 13)
Max Uplift	14=-255(LC 8), 7=-160(LC 13)
Max Grav	14=1198(LC 2), 7=1174(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-14=-1075/269, 1-2=-521/116, 2-3=-521/116, 3-4=-942/183, 4-5=-1268/209, 5-6=-1238/175, 6-7=-1088/172
BOT CHORD	13-14=-192/358, 11-13=-13/766, 10-11=0/1004, 4-10=-84/401
WEBS	1-13=-245/1096, 2-13=-378/190, 3-13=-520/191, 3-11=-169/734, 4-11=-583/248, 8-10=-69/957, 5-8=-323/68, 6-8=-50/947

- 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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-2-8, Exterior(2R) 12-2-8 to 15-2-8, Interior(1) 15-2-8 to 27-9-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=255, 7=160.
 - 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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Date:

January 11,2023

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (4-10-15 max.), except end verticals.
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
	4-9: 2x4 SP No.3	WEBS	1 Row at midpt 1-14, 2-13, 3-13, 4-11
WEBS	2x4 SP No.3 *Except*		
	1-13,3-13: 2x4 SP No.2		
OTHERS	2x4 SP No.3		

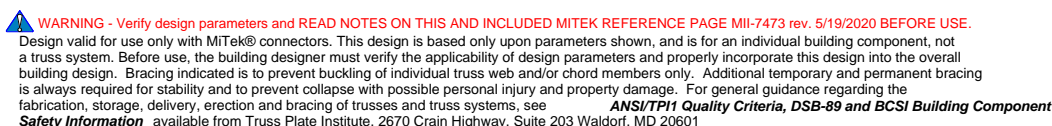
NOTES-

- 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 12-2-8, Exterior(2R) 12-2-8 to 15-2-8, Interior(1) 15-2-8 to 27-9-4 zone;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) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=255, 7=160.
- 11) 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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Date:

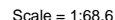
January 11, 2023



16023 Swingley Ridge Rd
Chesterfield, MO 63017

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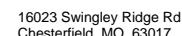
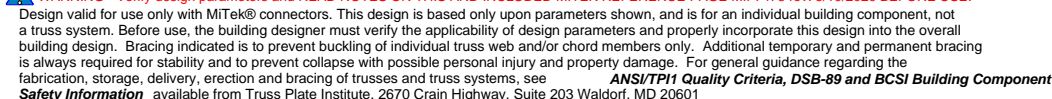
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- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-2-8, Exterior(2R) 12-2-8 to 15-2-8, Interior(1) 15-2-8 to 29-5-8 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) 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, with BC DL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=256, 7=195.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

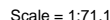
January 11, 2023



8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:19:58 2023 Page 1

Job Reference (optional)

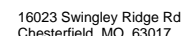
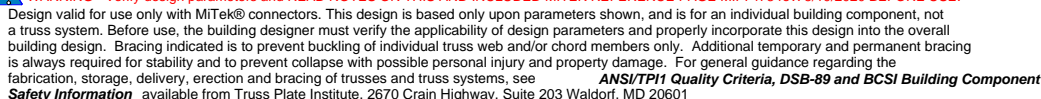
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- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-2-8, Exterior(2R) 12-2-8 to 15-2-8, Interior(1) 15-2-8 to 27-9-4 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) 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, with BCDL = 10.0psf.
- 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) 17=255, 8=160.
- 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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Date:

January 11, 2023



Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562170
3363898	T28	Piggyback Base	7	1		

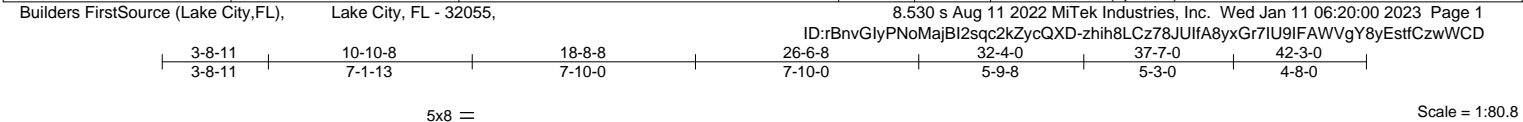


Plate Offsets (X,Y)--		[3:0-6-4,0-2-4], [5:0-6-4,0-2-4], [6:0-3-0,0-3-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.89	Vert(LL)	-0.20 14-15	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.80	Vert(CT)	-0.34 14-15	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.11 9	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS					Weight: 315 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD	TOP CHORD
BOT CHORD	BOT CHORD
WEBS	WEBS

REACTIONS. (size) 19=Mechanical, 9=Mechanical
Max Horz 19=-247(LC 13)
Max Uplift 19=-237(LC 12), 9=-268(LC 13)
Max Grav 19=1791(LC 2), 9=1760(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-966/245, 2-3=-1674/485, 3-4=-1712/571, 4-5=-1712/571, 5-6=-1996/601,
6-7=-2310/604, 7-8=-2340/563, 1-19=-1764/443, 8-9=-1680/425
BOT CHORD 17-18=-221/993, 15-17=-229/1323, 14-15=-203/1604, 12-14=-336/1871, 11-12=-415/1921
WEBS 2-18=-1230/398, 2-17=-97/518, 3-15=-217/740, 4-15=-488/243, 5-15=-196/318,
5-14=-148/730, 6-14=-545/244, 6-12=-36/295, 1-18=-421/1739, 8-11=-405/1888

- 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 3-8-11, Interior(1) 3-8-11 to 10-10-8, Exterior(2R) 10-10-8 to 15-1-3, Interior(1) 15-1-3 to 26-6-8, Exterior(2R) 26-6-8 to 30-9-3, Interior(1) 30-9-3 to 42-1-4 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) 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) 19=237, 9=268.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

January 11,2023



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562172
3363898	T29	Piggyback Base	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:20:06 2023 Page 1

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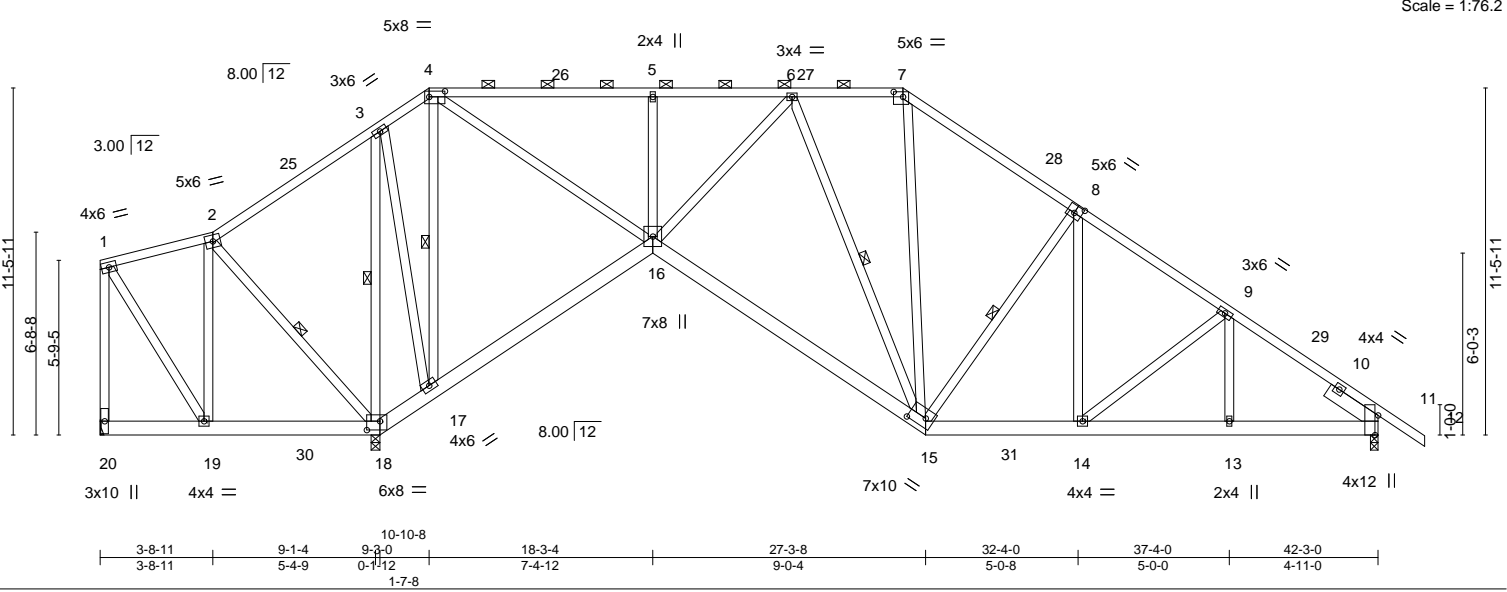
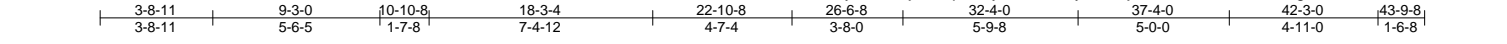


Plate Offsets (X,Y)-- [4:0-6-4,0-2-4], [7:0-3-12,0-2-0], [8:0-3-0,0-3-0], [11:0-7-13,Edge], [15:0-6-11,0-3-8], [18:0-5-4,0-3-8]

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 0.57	Vert(LL)	-0.13 15-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.49	Vert(CT)	-0.25 15-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.79	Horz(CT)	0.11 11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 363 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-6 max.): 4-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 2-18, 3-18, 4-17, 6-15, 8-15
SLIDER Right 2x6 SP No.2 1-11-8	

REACTIONS. (size) 20=Mechanical, 18=0-3-8, 11=0-3-0
Max Horz 20=-281(LC 13)
Max Uplift 20=-610(LC 26), 18=-442(LC 9), 11=-275(LC 13)
Max Grav 20=56(LC 9), 18=2763(LC 2), 11=1221(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-44/384, 2-3=-141/976, 3-4=-43/646, 4-5=-678/171, 5-6=-678/171, 6-7=-710/385, 7-8=-938/402, 8-9=-1269/398, 9-11=-1454/380, 1-20=-68/649
BOT CHORD 19-20=-195/280, 18-19=-421/241, 17-18=-982/440, 16-17=-715/403, 15-16=-107/990, 14-15=-136/991, 13-14=-214/1139, 11-13=-214/1139
WEBS 2-19=-153/744, 2-18=-618/296, 3-18=-1559/230, 3-17=-143/1251, 4-17=-1314/225, 4-16=-186/1438, 5-16=-389/189, 6-16=-210/272, 7-15=-89/283, 8-15=-594/249, 8-14=-48/355, 1-19=-682/91

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-8-11, Interior(1) 3-8-11 to 10-10-8, Exterior(2R) 10-10-8 to 15-1-3, Interior(1) 15-1-3 to 26-6-8, Exterior(2R) 26-6-8 to 30-9-3, Interior(1) 30-9-3 to 43-9-8 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=610, 18=442, 11=275.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

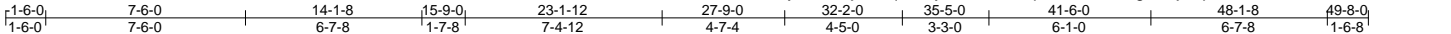
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 11,2023

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562173
3363898	T30	Piggyback Base	3	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:20:08 2023 Page 1

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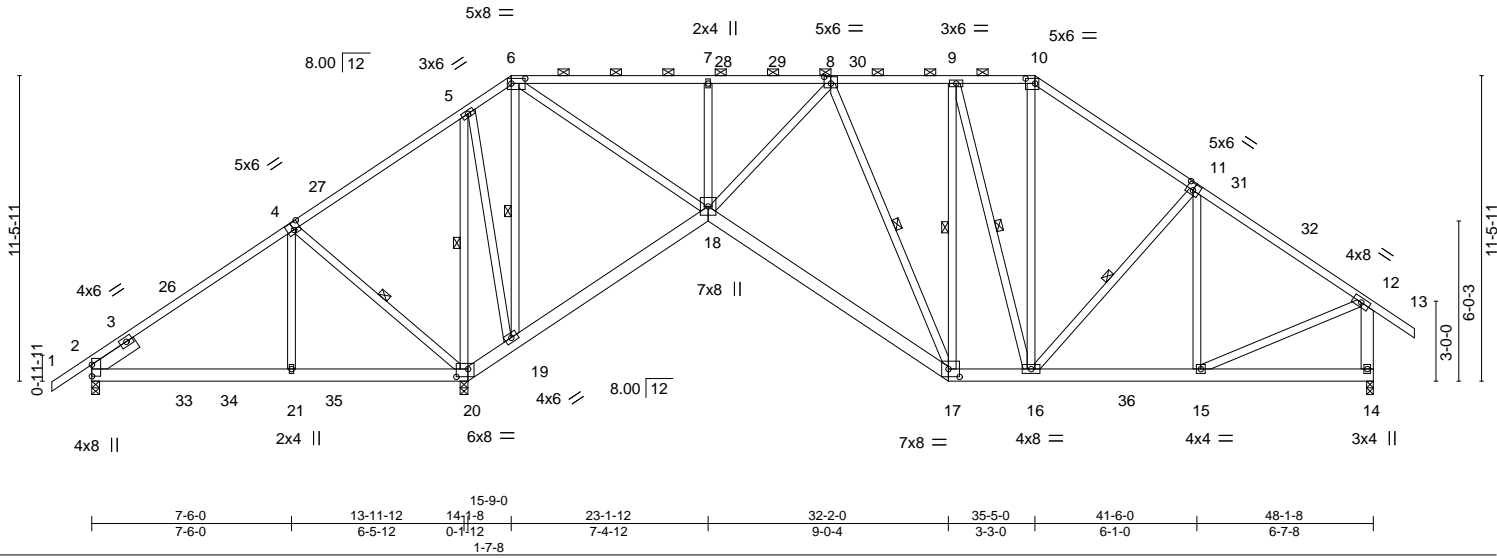


Plate Offsets (X,Y)--		[4:0-3-0,0-3-4], [6:0-6-4,0-2-4], [8:0-3-0,0-3-0], [10:0-4-4,0-2-4], [11:0-3-0,0-3-0], [17:0-5-0,0-3-8], [20:0-5-4,0-3-8]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.63		Vert(LL)	-0.13 17-18	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.42		Vert(CT)	-0.25 17-18	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.79		Horz(CT)	0.12 14	n/a	n/a		
BCDL 10.0		Code FBC2020/TPI2014		Matrix-MS						Weight: 408 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-3-14 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-0 max.): 6-10.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 4-20, 5-20, 6-19, 8-17, 9-17, 9-16, 11-16
SLIDER Left 2x6 SP No.2 1-11-8	

REACTIONS. (size) 2=0-3-8, 20=0-3-8, 14=0-3-0
Max Horz 2=294(LC 11)
Max Uplift 2=-167(LC 24), 20=-553(LC 9), 14=-315(LC 13)
Max Grav 2=219(LC 23), 20=2579(LC 2), 14=1264(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-335/494, 4-5=-192/841, 5-6=-68/515, 6-7=-861/236, 7-8=-861/236, 8-9=-760/349, 9-10=-751/353, 10-11=-983/365, 11-12=-1124/301, 12-14=-1163/328
BOT CHORD 2-21=-382/258, 20-21=-382/258, 19-20=-839/325, 18-19=-584/281, 17-18=-247/1097, 16-17=-120/762, 15-16=-165/870
WEBS 4-21=-292/394, 4-20=-608/415, 5-20=-1575/323, 5-19=-225/1270, 6-19=-1313/315, 6-18=-323/1540, 7-18=-380/183, 8-17=-282/196, 10-16=-84/331, 11-16=-285/155, 12-15=-130/889

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 3-3-12, Interior(1) 3-3-12 to 15-9-0, Exterior(2R) 15-9-0 to 22-6-11, Interior(1) 22-6-11 to 35-5-0, Exterior(2R) 35-5-0 to 42-2-11, Interior(1) 42-2-11 to 49-8-0 zone; end vertical right exposed; 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=167, 20=553, 14=315.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

January 11,2023

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

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

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562174
3363898	T30G	GABLE	1	1		

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:20:10 2023 Page 1

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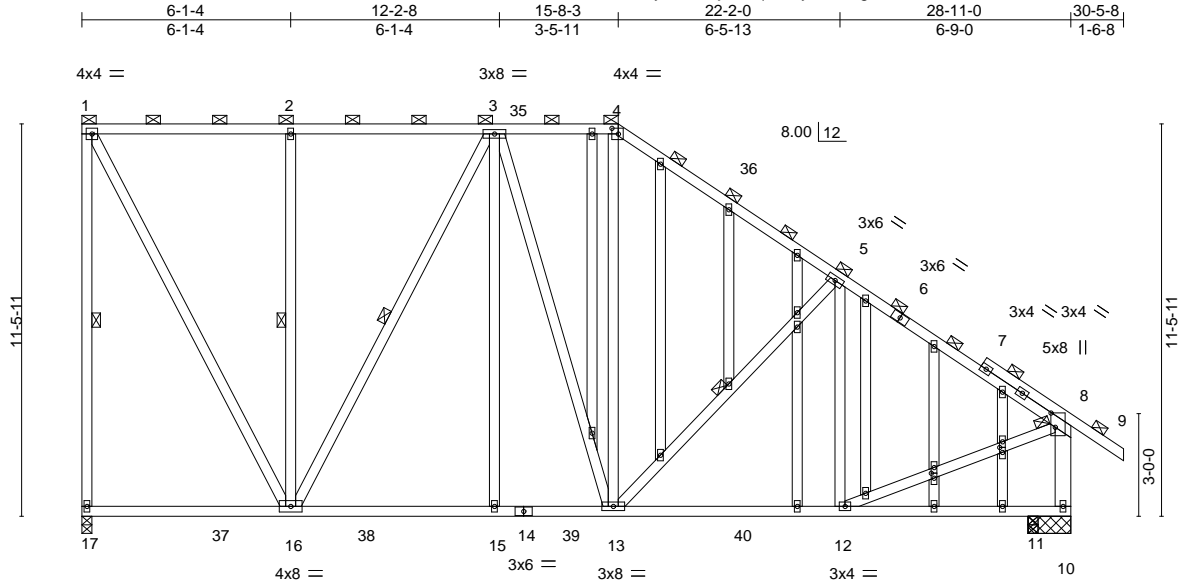


Plate Offsets (X,Y)--	[4:0-2-4,0-2-0], [8:0-5-0,0-1-8], [20:0-1-12,0-1-0], [23:0-1-12,0-1-0]
-----------------------	--

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 0.91	Vert(LL)	-0.09 12-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.51	Vert(CT)	-0.15 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.75	Horz(CT)	0.02 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 320 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (5-3-5 max.), except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 1-17, 2-16, 3-16, 5-13
OTHERS 1-16,3-16: 2x4 SP No.2, 8-10: 2x6 SP No.2	
2x4 SP No.3	

REACTIONS.	All bearings 0-3-8 except (jt=length) 10=1-3-0.
(lb) - Max Horz	17=-292(LC 13)
Max Uplift	All uplift 100 lb or less at joint(s) except 17=-286(LC 8), 10=-222(LC 13)
Max Grav	All reactions 250 lb or less at joint(s) 11, 11 except 17=1239(LC 2), 10=1075(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-17=-1118/299, 1-2=-543/127, 2-3=-543/127, 3-4=-780/215, 4-5=-1024/200, 5-8=-1164/176, 8-10=-1167/214
BOT CHORD	16-17=-238/337, 15-16=-109/776, 13-15=-109/776, 12-13=-65/914
WEBS	1-16=-267/1143, 2-16=-366/176, 3-16=-497/160, 4-13=-25/322, 5-13=-304/210, 8-12=-27/916

- 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 15-8-3, Exterior(2R) 15-8-3 to 18-8-3, Interior(1) 18-8-3 to 30-5-8 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 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, with BCDL = 10.0psf.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 lb uplift at joint 17 and 222 lb uplift at joint 10.
 - 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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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

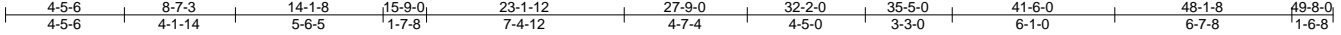
January 11,2023

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562175
3363898	T31	Piggyback Base	3	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:20:13 2023 Page 1

ID:rBnvGlyPNoMajBl2sqc2kZycQXD-5B_btnM738yeMfgdDA?u82XRfVio2bl2yIW3dyzwWC0



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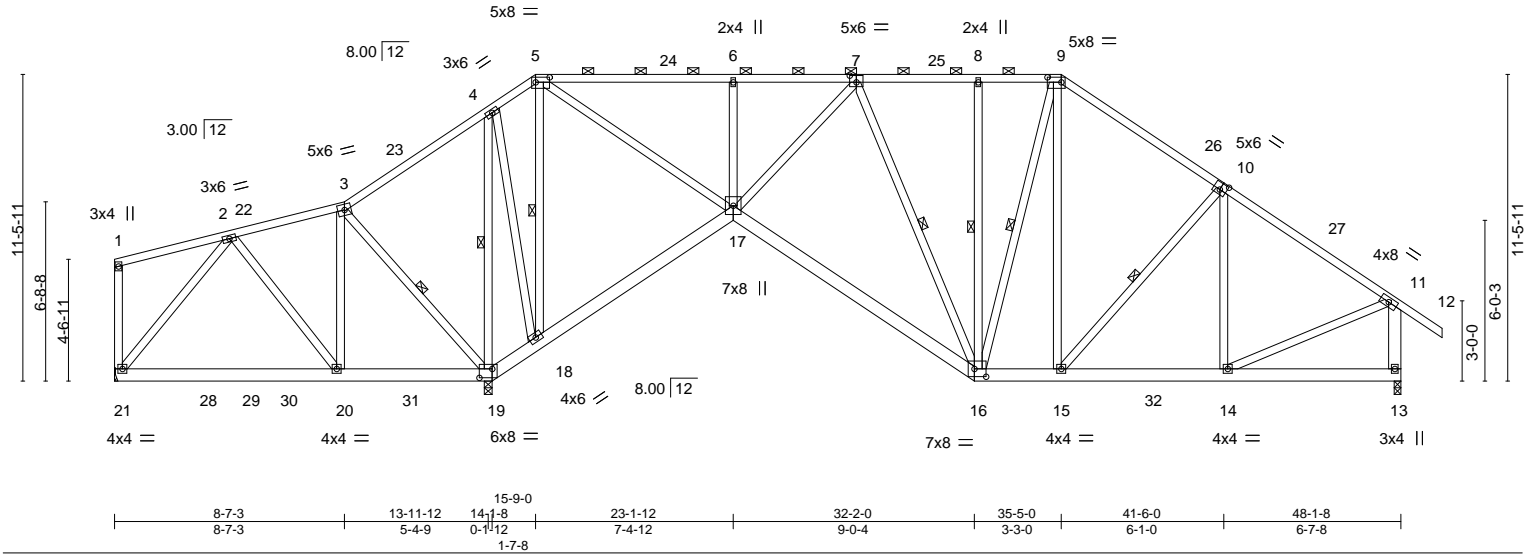


Plate Offsets (X,Y)--		[5:0-6-4,0-2-4], [7:0-3-0,0-3-0], [9:0-6-4,0-2-4], [10:0-3-0,0-3-0], [16:0-5-4,0-3-8], [19:0-5-12,0-4-0]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.12 16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.24 16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.10 13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 424 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-4-11 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-7 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-19, 4-19, 5-18, 7-16, 8-16, 9-16, 10-15

REACTIONS.

(size) 19=0-3-8, 13=0-3-0, 21=Mechanical
Max Horz 21=250(LC 11)
Max Uplift 19=613(LC 9), 13=251(LC 13), 21=272(LC 24)
Max Grav 19=2712(LC 2), 13=1237(LC 20), 21=44(LC 11)

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

TOP CHORD 2-3=-127/550, 3-4=-261/1004, 4-5=-140/647, 5-6=-693/169, 6-7=-693/169, 7-8=-712/386, 8-9=-714/387, 9-10=-936/398, 10-11=-1095/338, 11-13=-1137/378
BOT CHORD 20-21=-290/121, 19-20=-537/147, 18-19=-1004/449, 17-18=-717/416, 16-17=-192/995, 15-16=-62/712, 14-15=-138/839
WEBS 2-20=-430/147, 3-20=-425/619, 3-19=-533/554, 4-19=-1606/335, 4-18=-236/1292, 5-18=-1341/334, 5-17=-286/1471, 6-17=-381/187, 7-17=-192/262, 9-15=-110/357, 10-15=-296/177, 2-21=-110/475, 11-14=-122/856

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-11-8, Interior(1) 4-11-8 to 15-9-0, Exterior(2R) 15-9-0 to 20-6-12, Interior(1) 20-6-12 to 35-5-0, Exterior(2R) 35-5-0 to 40-2-12, Interior(1) 40-2-12 to 49-8-0 zone; end vertical right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 613 lb uplift at joint 19, 251 lb uplift at joint 13 and 272 lb uplift at joint 21.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

January 11,2023

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

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

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

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



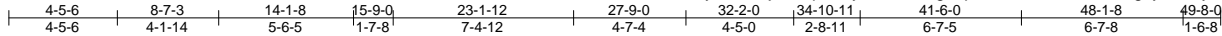
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562176
3363898	T31G	GABLE	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:20:16 2023 Page 1

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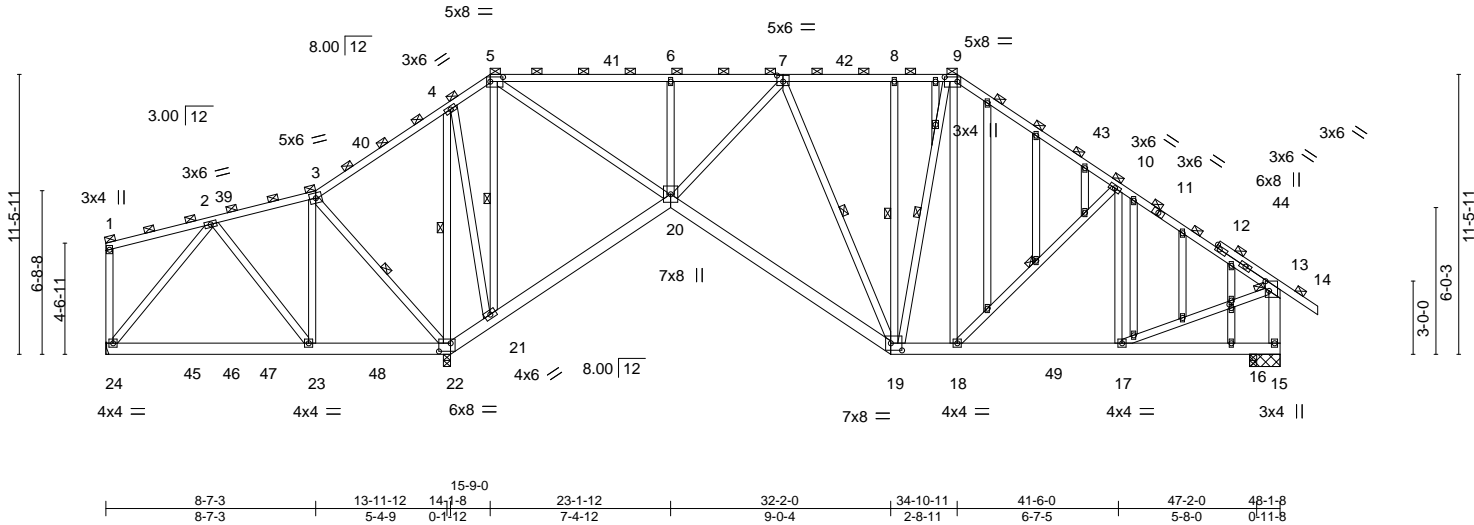


Plate Offsets (X,Y)--		[5:0-6-4,0-2-4], [7:0-3-0,0-3-0], [9:0-6-4,0-2-4], [13:0-4-12,0-1-12], [19:0-5-8,0-3-8], [22:0-5-12,0-4-0], [29:0-1-12,0-1-0]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.12 19-20	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.23 19-20	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.10 15	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 473 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
13-15: 2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD 2-0-0 oc purlins (5-6-3 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-22, 4-22, 5-21, 7-19, 8-19, 9-19, 10-18

REACTIONS.

All bearings 0-3-8 except (jt=length) 15=1-3-0, 24=Mechanical.
(lb) - Max Horz 24=247(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 22=600(LC 9), 15=270(LC 13), 24=272(LC 24)
Max Grav All reactions 250 lb or less at joint(s) 24 except 22=2701(LC 2), 15=915(LC 20), 16=358(LC 26)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-121/549, 3-4=-253/1001, 4-5=-134/644, 5-6=-681/165, 6-7=-681/165,
7-8=-698/383, 8-9=-700/384, 9-10=-934/389, 10-13=-1095/340, 13-15=-1114/374
BOT CHORD 23-24=-290/126, 22-23=-537/146, 21-22=-1001/451, 20-21=-716/417, 19-20=-183/979,
18-19=-56/704, 17-18=-153/844
WEBS 2-23=-430/143, 3-23=-427/618, 3-22=-533/554, 4-22=-1597/327, 4-21=-228/1284,
5-21=-1332/325, 5-20=-276/1454, 6-20=-380/187, 7-20=-195/262, 9-18=-105/364,
10-18=-300/187, 2-24=-104/474, 13-17=-128/853

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-11-8, Interior(1) 4-11-8 to 15-9-0, Exterior(2R) 15-9-0 to 20-6-12, Interior(1) 20-6-12 to 34-10-11, Exterior(2R) 34-10-11 to 39-8-7, Interior(1) 39-8-7 to 49-8-0 zone; end vertical right exposed; porch left 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) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 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) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 600 lb uplift at joint 22, 270 lb uplift at joint 15 and 272 lb uplift at joint 24.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

January 11,2023

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



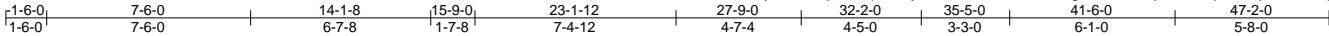
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562177
3363898	T32	Piggyback Base	2	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:20:18 2023 Page 1

ID:rBnvGlyPNoMajBI2sqc2kZycQXD-R9oUwVQGugbwSQZb0ja3r5ElqWQmjs4o51DqH9zwWBx



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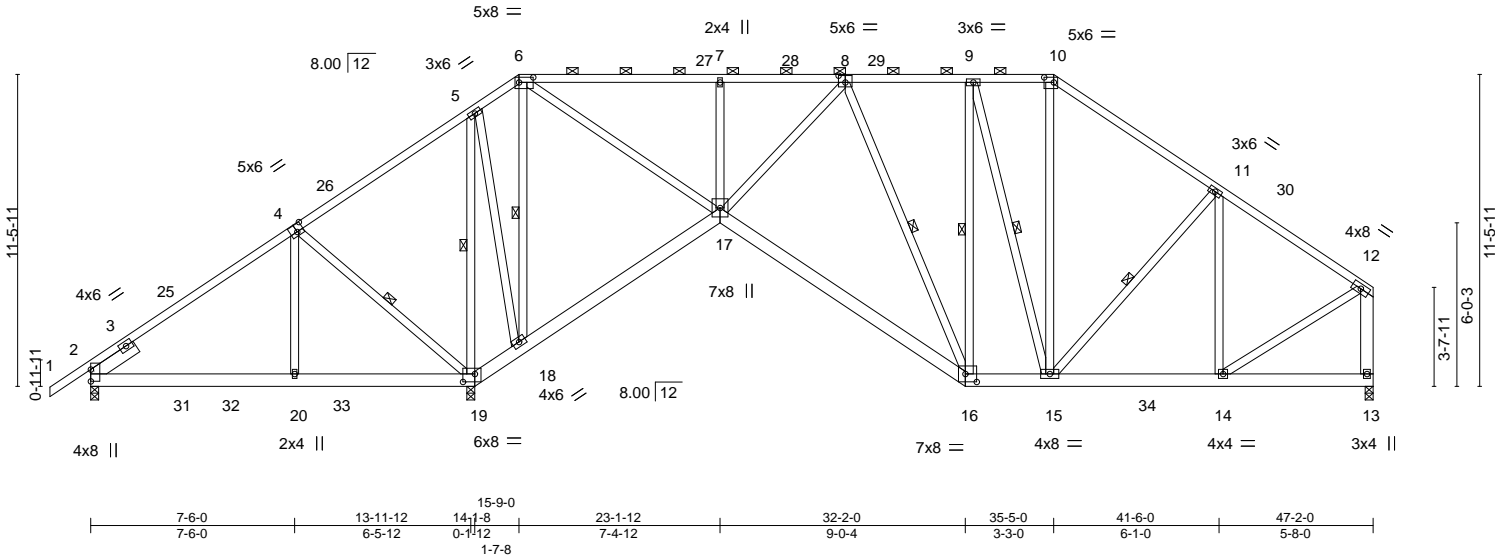


Plate Offsets (X,Y)--		[4:0-3-0,0-3-4], [6:0-6-4,0-2-4], [8:0-3-0,0-3-0], [10:0-4-4,0-2-4], [16:0-5-0,0-3-8], [19:0-5-4,0-3-8]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.63		Vert(LL)	-0.12 16-17	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.41		Vert(CT)	-0.24 16-17	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.77		Horz(CT)	0.12 13	n/a	n/a		
BCDL 10.0		Code FBC2020/TPI2014		Matrix-MS						Weight: 402 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
12-13: 2x6 SP No.2
SLIDER Left 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-3 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-0 max.): 6-10.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-19, 5-19, 6-18, 8-16, 9-16, 9-15, 11-15

REACTIONS.

(size) 2=0-3-8, 19=0-3-8, 13=0-3-8
Max Horz 2=293(LC 11)
Max Uplift 2=-144(LC 24), 19=-563(LC 9), 13=-261(LC 13)
Max Grav 2=236(LC 23), 19=2511(LC 2), 13=1138(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-339/471, 4-5=-204/798, 5-6=-77/476, 6-7=-857/240, 7-8=-857/240, 8-9=-724/317, 9-10=-704/321, 10-11=-927/324, 11-12=-967/239, 12-13=-1058/270
BOT CHORD 2-20=-351/246, 19-20=-352/246, 18-19=-794/312, 17-18=-550/266, 16-17=-268/1065, 15-16=-134/725, 14-15=-175/755
WEBS 4-20=-294/392, 4-19=-604/416, 5-19=-1537/338, 5-18=-238/1235, 6-18=-1271/330, 6-17=-341/1500, 7-17=-380/183, 8-16=-299/205, 10-15=-61/306, 11-14=-285/132, 12-14=-167/858

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 3-2-10, Interior(1) 3-2-10 to 15-9-0, Exterior(2R) 15-9-0 to 22-5-1, Interior(1) 22-5-1 to 35-5-0, Exterior(2R) 35-5-0 to 42-1-1, Interior(1) 42-1-1 to 46-11-4 zone; end vertical right exposed; 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 144 lb uplift at joint 2, 563 lb uplift at joint 19 and 261 lb uplift at joint 13.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

January 11,2023

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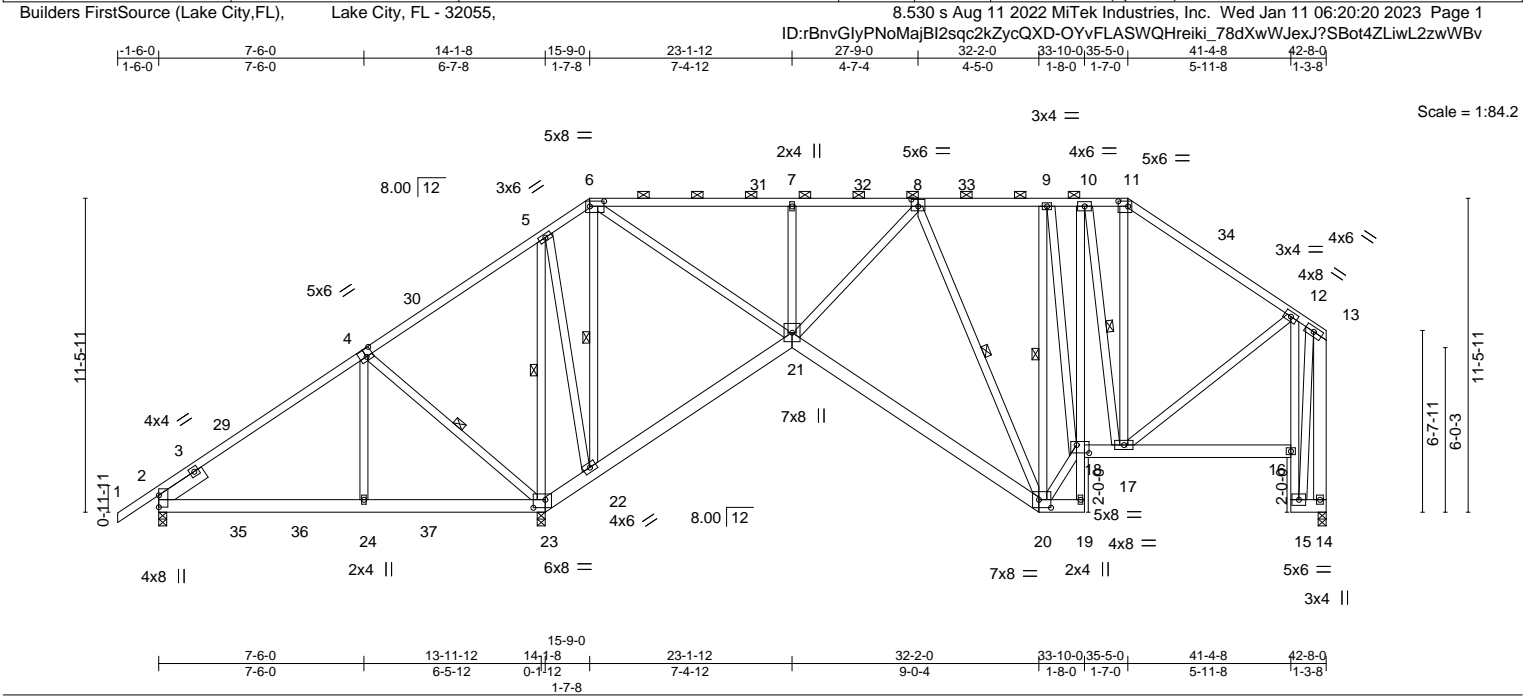
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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



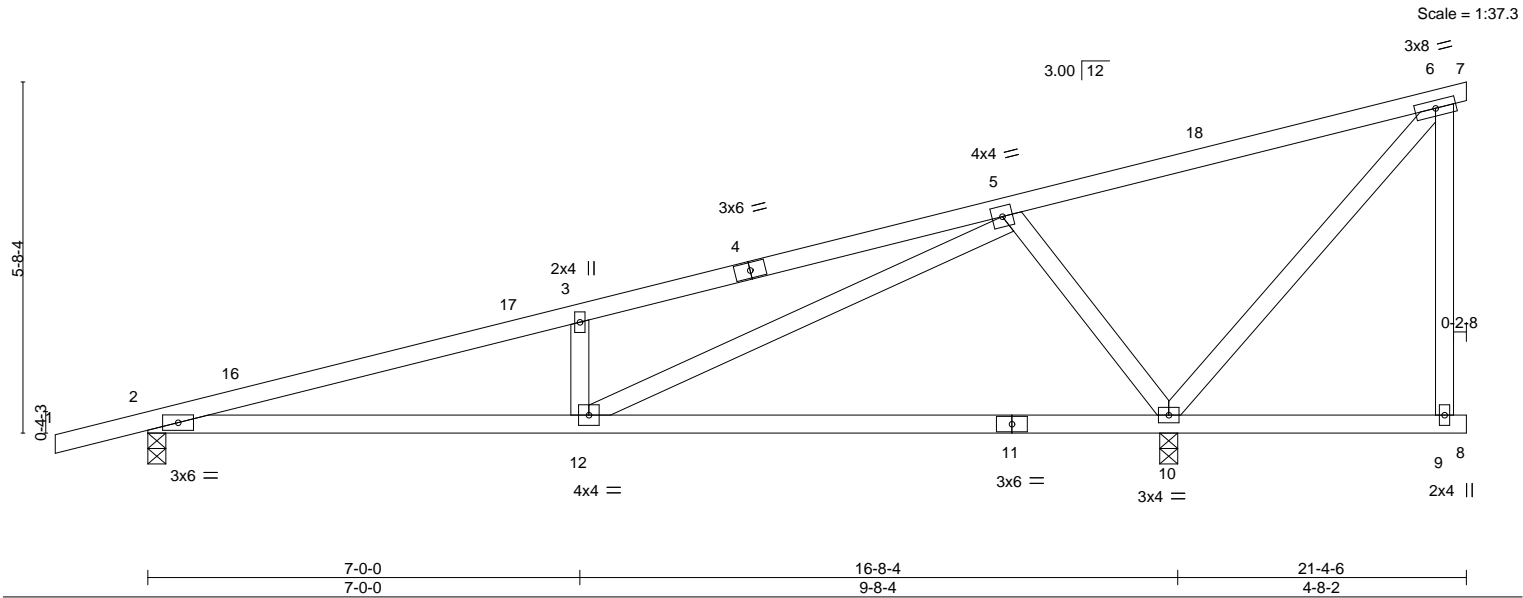
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562178
3363898	T33	Piggyback Base	4	1	Job Reference (optional)	



Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562179
3363898	T34	JACK-CLOSED	8	1		

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Wed Jan 11 06:20:21 2023
Page 1
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14-0-0
7-0-0
21-4-6
7-4-6



7-0-0 7-0-0		16-8-4 9-8-4		21-4-6 4-8-2	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.55	Vert(LL)	-0.18 10-12 >999 240
TCDL 7.0	Lumber DOL	1.25	BC 0.72	Vert(CT)	-0.37 10-12 >534 180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.02 10 n/a n/a
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS		
				PLATES	GRIP
				MT20	244/190
				Weight: 104 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-5-10 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 9-5-14 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=201(LC 8)
Max Uplift 2=-181(LC 8), 10=-301(LC 8)
Max Grav 2=645(LC 1), 10=1017(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1393/238, 3-5=-1409/298
BOT CHORD 2-12=-377/1325
WEBS 3-12=-363/187, 5-12=-315/1225, 5-10=-733/302, 6-10=-341/196

- 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 21-4-6 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 181 lb uplift at joint 2 and 301 lb uplift at joint 10.

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

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

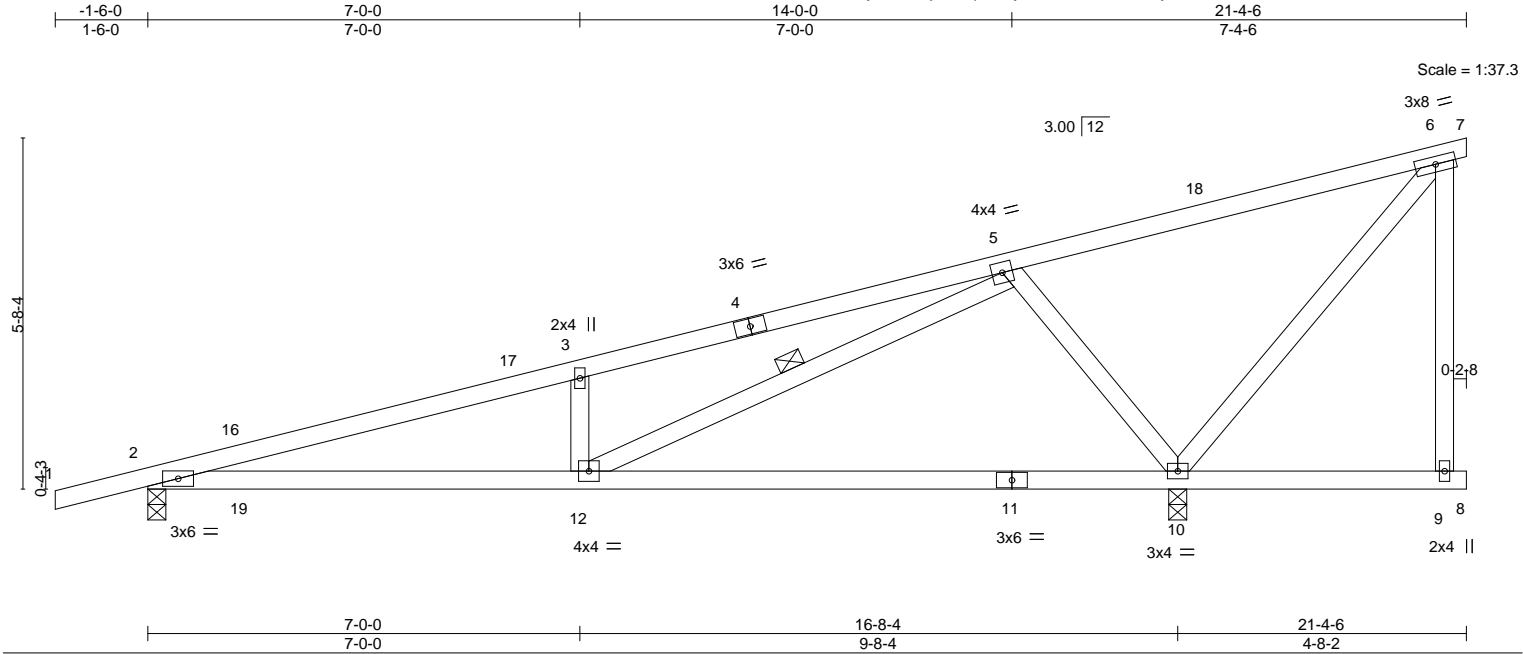
January 11,2023

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562180
3363898	T35	JACK-CLOSED	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc.
Wed Jan 11 06:20:22 2023
Page 1

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LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	in	(loc)	l/defl	L/d	MT20		244/190	
BCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(LL)	0.42 10-12	>478	240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Vert(CT)	-0.40 10-12	>506	180				
BCDL	10.0	Code FBC2020/TP12014		Matrix-MS		Horz(CT)	0.02 10	n/a	n/a				
											Weight: 104 lb	FT = 20%	

LUMBER-

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

REACTIONS.

(size) 2=0-3-8, 10=0-3-8
Max Horz 2=201(LC 8)
Max Uplift 2=-190(LC 9), 10=-299(LC 8)
Max Grav 2=654(LC 1), 10=1008(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1436/1472, 3-5=-1445/1529
BOT CHORD 2-12=-1569/1361, 10-12=-336/267
WEBS 3-12=-362/187, 5-12=-1390/1228, 5-10=-742/575, 6-10=-328/144

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 21-4-6 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 190 lb uplift at joint 2 and 299 lb uplift at joint 10.

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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:

January 11,2023



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562181
3363898	T36	Jack-Closed	3	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:20:24 2023 Page 1
ID:rBnvGlyPN0MajBI2sqc2kZycQXD-GJ9IBYV0TWL4AL0IMzhU5MULOxOy7fYgUzg8UpzwWBr

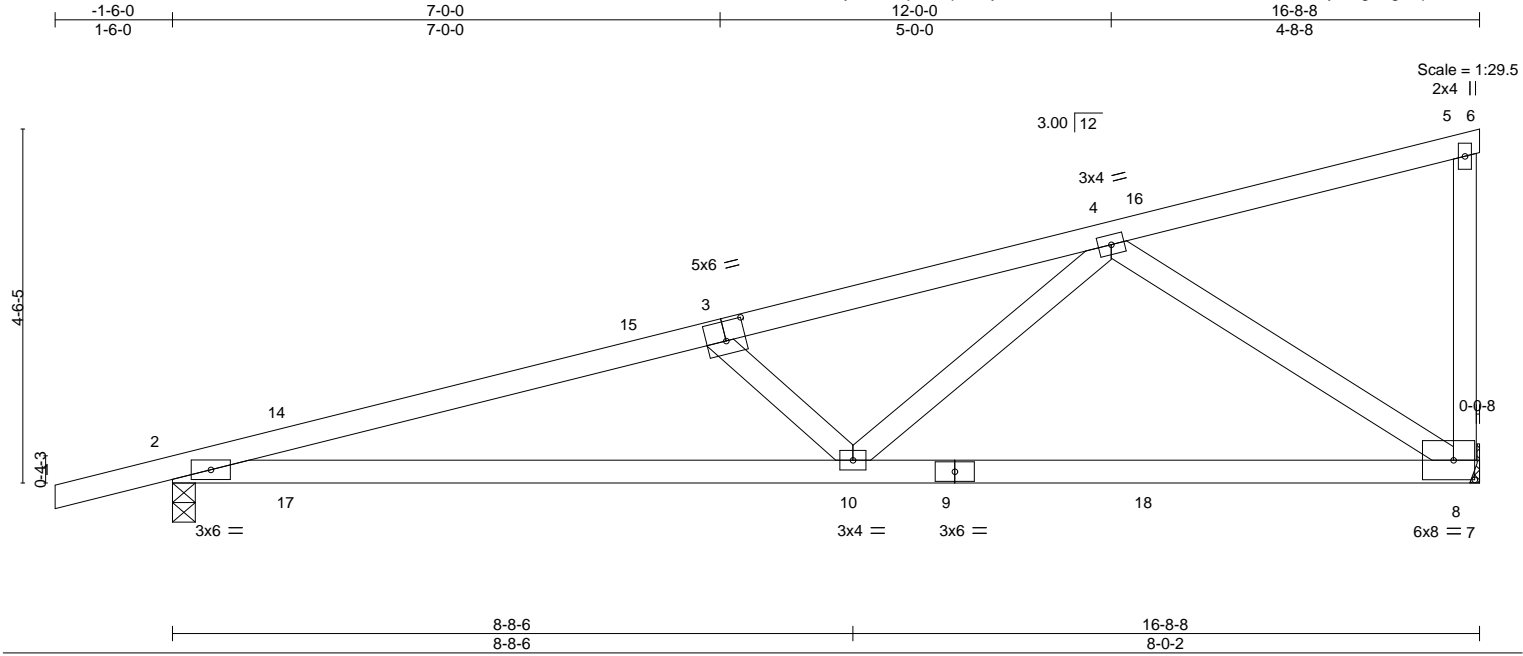


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [8:0-3-4,0-3-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP			
TCLL	20.0	Plate Grip DOL 1.25		TC	0.56	Vert(LL)	0.26	10-13	>763	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.75	Vert(CT)	-0.25	10-13	>806	180		
BCLL	0.0 *	Rep Stress Incr YES		WB	0.46	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 76 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 4-2-3 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS.	(size) 2=0-3-8, 8=Mechanical
	Max Horz 2=161(LC 8)
	Max Uplift 2=-341(LC 8), 8=-319(LC 8)
	Max Grav 2=696(LC 1), 8=614(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1513/1440, 3-4=-1257/1342
BOT CHORD	2-10=-1522/1444, 8-10=-689/666
WEBS	3-10=-386/232, 4-10=-925/705, 4-8=-776/773

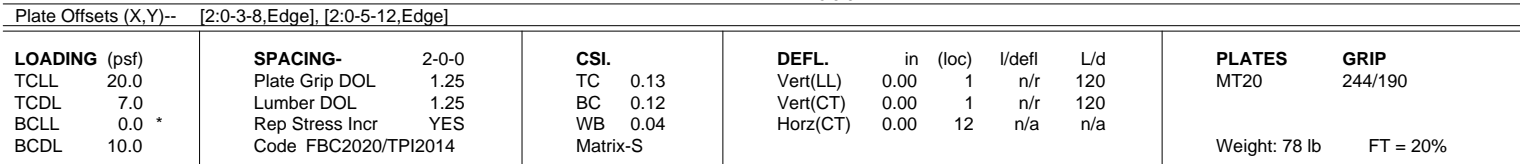
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 16-8-8 zone; porch left and right exposed; C-C for members and forces & 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 341 lb uplift at joint 2 and 319 lb uplift at joint 8.

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January 11,2023

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:20:25 2023 Page 1
ID:rBnvGlyPNoMajBl2sqc2kZycQXD-kVj8OuWfEpTxoVbxwhCjda0drKtvsDHpidQh1FzwWBq
16-8-8
16-8-8



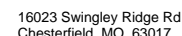
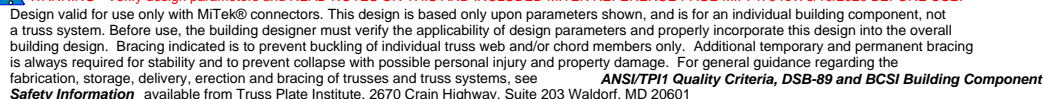
REACTIONS. All bearings 16-8-8.
(lb) - Max Horz 2=149(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 17, 18, 19, 16, 14, 13
Max Grav All reactions 250 lb or less at joint(s) 12, 2, 17, 18, 16, 14, 13 except 19=273(LC 1)

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=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 16-6-12 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) 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2'-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" tall by 2'-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) 12, 2, 17, 18, 19, 16, 14, 13.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

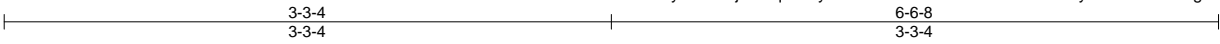
Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 11, 2023

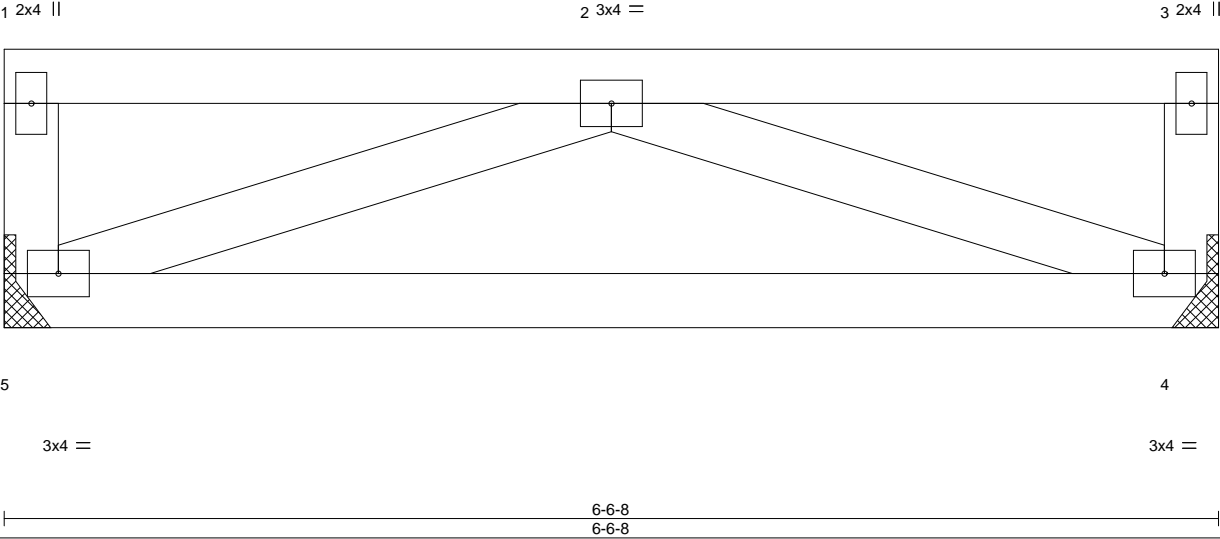


Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562183
3363898	TF01	FLOOR	12	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:20:26 2023 Page 1
ID:rBnvGlyPNoMajBl2sqc2kZycQXD-ChHWbEXH77boQfA7UOkYAnZmmkAebegzxG9FZhzWbP



Scale = 1:12.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.24	Vert(LL)	0.00 5	****	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.28	Vert(CT)	-0.05 4-5	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.00 4	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014		Matrix-MP						
								Weight: 31 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (size) 5=Mechanical, 4=Mechanical
Max Grav 5=344(LC 1), 4=344(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 4-5=-0/489
WEBS 2-5=-524/0, 2-4=-524/0

NOTES-

- 1) Refer to girder(s) for truss to truss connections.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Date:

January 11,2023

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



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Chesterfield, MO 63017

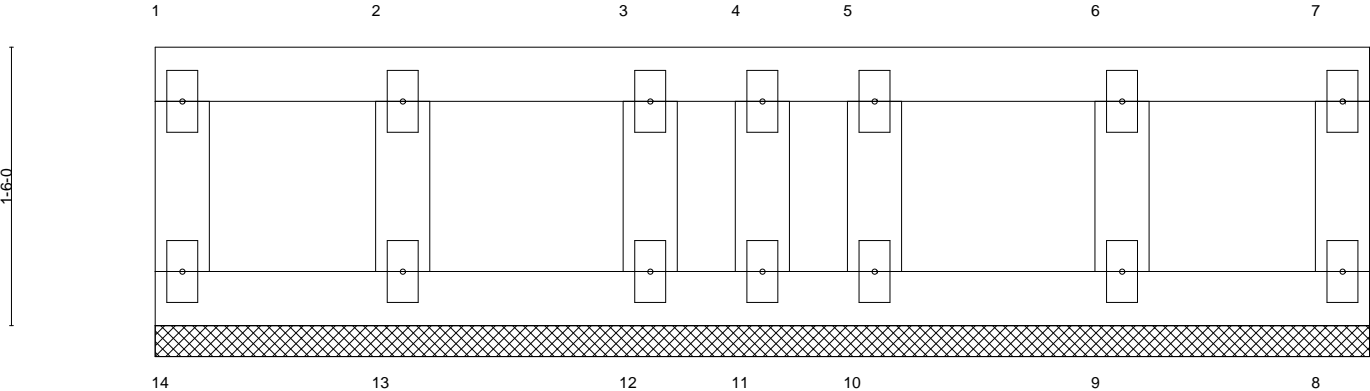
Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562184
3363898	TF01G	FLOOR	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:20:27 2023 Page 1
ID:rBnvGlyPNoMajBl2sqc2kZycQXD-huqupaXvmRjf2pIk16FBj?6zk8aEK7v6Awvo58zwWBo

6-6-8

6-6-8

Scale = 1:12.4



												6-6-8											
												6-6-8											
LOADING (psf)		SPACING-		2-0-0		CSI.				DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP			
TCLL	40.0	Plate Grip DOL		1.00		TC	0.04			Vert(LL)		n/a		-		n/a		999		MT20		244/190	
TCDL	10.0	Lumber DOL		1.00		BC	0.00			Vert(CT)		n/a		-		n/a		999					
BCLL	0.0	Rep Stress Incr		YES		WB	0.03			Horz(CT)		0.00		8		n/a		n/a					
BCDL	5.0	Code FBC2020/TPI2014				Matrix-R														Weight: 29 lb		FT = 20%	

Job 3363898	Truss TG01	Truss Type Flat Girder	Qty 1	Ply 2	IC CONST. - LEECH RES. Job Reference (optional)	T29562185
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 11 06:20:30 2023 Page 1

ID:rBnvGlyPNoMajBI2sqc2kZycQXD-5TW1Rban3M5DvGTvjEouKdkPLLJXFrZsu8SiTzwWBI

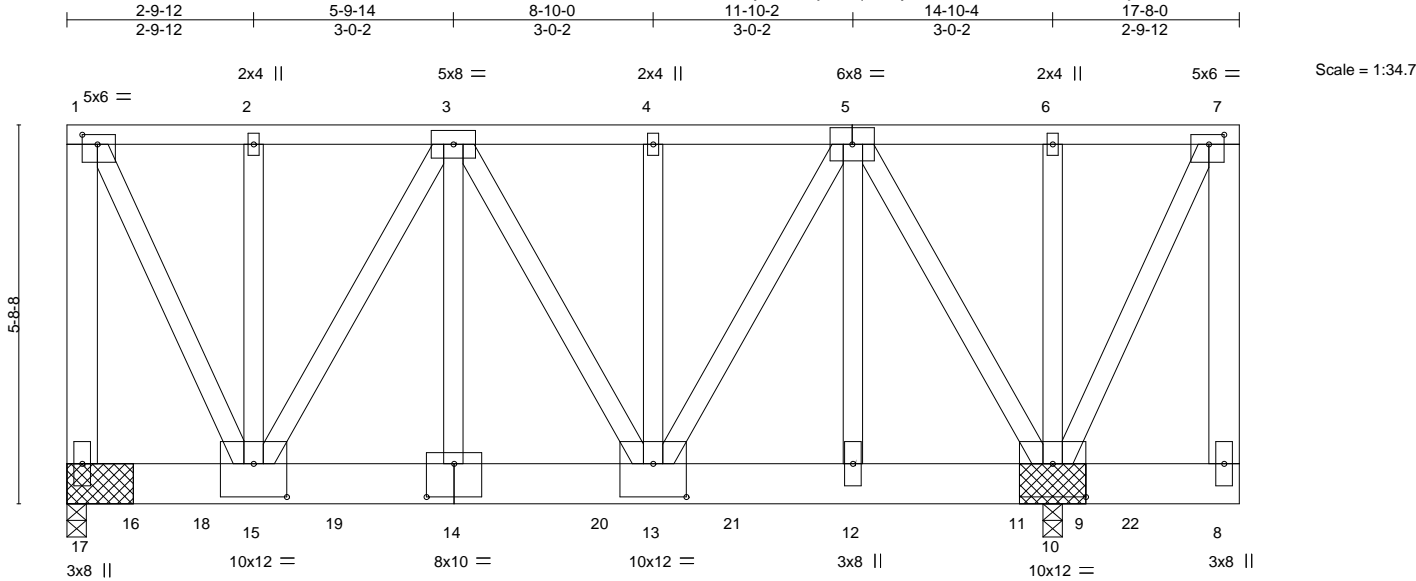


Plate Offsets (X, Y)--		[1:0-2-12,0-1-12], [7:0-2-12,0-1-12], [10:0-6-0,0-6-0], [13:0-6-0,0-6-0], [14:0-5-0,0-6-0], [15:0-6-0,0-6-0]
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 7.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	NO
BCDL 10.0	Code	FBC2020/TPI2014
	CSI.	
	TC	0.33
	BC	0.24
	WB	0.92
	Matrix-MS	
	DEFL.	
	in (loc)	l/defl L/d
	Vert(LL)	-0.06 14 >999 240
	Vert(CT)	-0.10 14 >999 180
	Horz(CT)	0.01 10 n/a n/a
	PLATES	GRIP
	MT20	244/190
	Weight: 400 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
1-17,7-8: 2x6 SP No.2, 1-15,7-10: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 8-10.

REACTIONS.

(size) 17=(0-3-8 + bearing block) (req. 0-3-11), 10=(0-3-8 + bearing block) (req. 0-4-2)
Max Uplift 17=-979(LC 5), 10=-1466(LC 5)
Max Grav 17=6248(LC 2), 10=7024(LC 2)

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

TOP CHORD 1-17=-5746/897, 1-2=-2834/433, 2-3=-2834/433, 3-4=-4773/707, 4-5=-4773/707,
5-6=-256/0, 6-7=-256/0, 7-8=-557/0
BOT CHORD 14-15=-690/4539, 13-14=-690/4543, 12-13=-427/3088, 10-12=-428/3091
WEBS 1-15=-958/6288, 3-15=-3433/517, 3-14=-334/2414, 3-13=-34/461, 5-13=-564/3402,
5-12=-213/1868, 5-10=-5695/899, 7-10=0/595

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 2x8 SP 2400F 2.0E bearing block 12" long at jt. 10 attached to each face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16
Total fasteners per block. Bearing is assumed to be SP No.2.
- 2x8 SP 2400F 2.0E bearing block 12" long at jt. 17 attached to each face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16
Total fasteners per block. Bearing is assumed to be SP No.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; cantilever right exposed; porch right exposed; Lumber DOL=1.60 plate grip
DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 979 lb uplift at joint 17 and 1466 lb uplift at joint 10.

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Date:

January 11,2023

Continued on page 2

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

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

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562185
3363898	TG01	Flat Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
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8.530 s Aug 11 2022 MiTek Industries, Inc.
Wed Jan 11 06:20:30 2023
Page 2
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NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1771 lb down and 257 lb up at 2-0-12, 1771 lb down and 257 lb up at 4-0-12, 1771 lb down and 257 lb up at 6-0-12, 1771 lb down and 257 lb up at 8-0-12, 1771 lb down and 257 lb up at 10-0-12, 1771 lb down and 257 lb up at 12-0-12, and 1771 lb down and 257 lb up at 14-0-12, and 66 lb down and 630 lb up at 16-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-7=-54, 8-17=-20

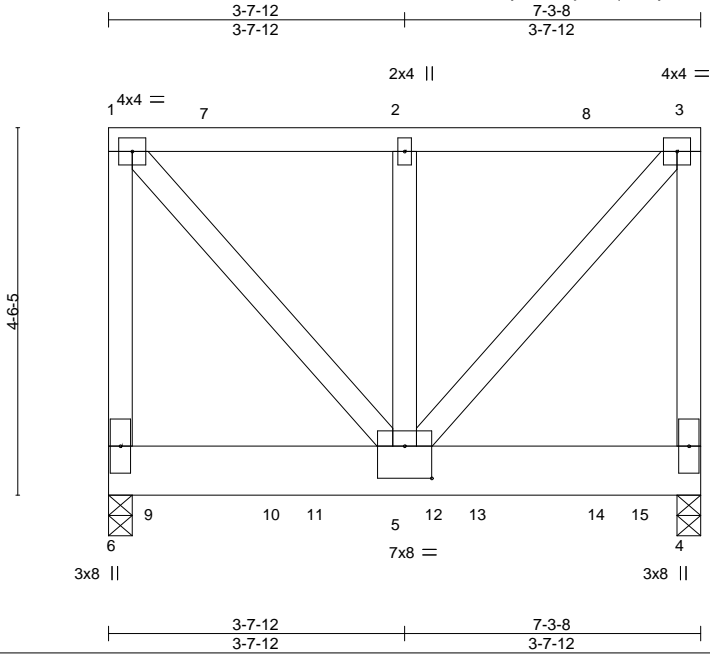
Concentrated Loads (lb)

Vert: 14=-1532(B) 12=-1532(B) 11=-1532(B) 18=-1532(B) 19=-1532(B) 20=-1532(B) 21=-1532(B) 22=227(B)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562186
3363898	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. Wed Jan 11 06:20:32 2023 Page 1
ID:rBnvGlyPNoMajBI2sqc2kZycQXD-1rensHb2bzLx8adHqfqMQ2pmI9Ge?IxrJCdZmLzwWBj



Scale = 1:28.4

Plate Offsets (X,Y)--	[5:0-4-0,0-4-12]									
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 0.28	Vert(LL)	0.02	5	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.12	Vert(CT)	-0.02	5	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.37	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 64 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 6=0-3-8, 4=0-3-8
Max Horz 6=-98(LC 6)
Max Uplift 6=-891(LC 4), 4=-997(LC 5)
Max Grav 6=1079(LC 1), 4=1295(LC 1)

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

TOP CHORD 1-6=-804/579, 1-2=-629/476, 2-3=-629/476, 3-4=-803/589
WEBS 1-5=-710/948, 3-5=-718/946

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; 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 891 lb uplift at joint 6 and 997 lb uplift at joint 4.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 287 lb up at 0-7-4, 594 lb down and 341 lb up at 2-0-12, 56 lb down and 292 lb up at 2-7-4, 594 lb down and 341 lb up at 4-0-12, 56 lb down and 292 lb up at 4-7-4, and 594 lb down and 341 lb up at 6-0-12, and 47 lb down and 287 lb up at 6-7-4 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: 1-3=-54, 4-6=-20
Concentrated Loads (lb)
Vert: 9=-20(F) 10=-594(B) 11=-15(F) 12=-594(B) 13=-15(F) 14=-594(B) 15=-25(F)

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:

January 11,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

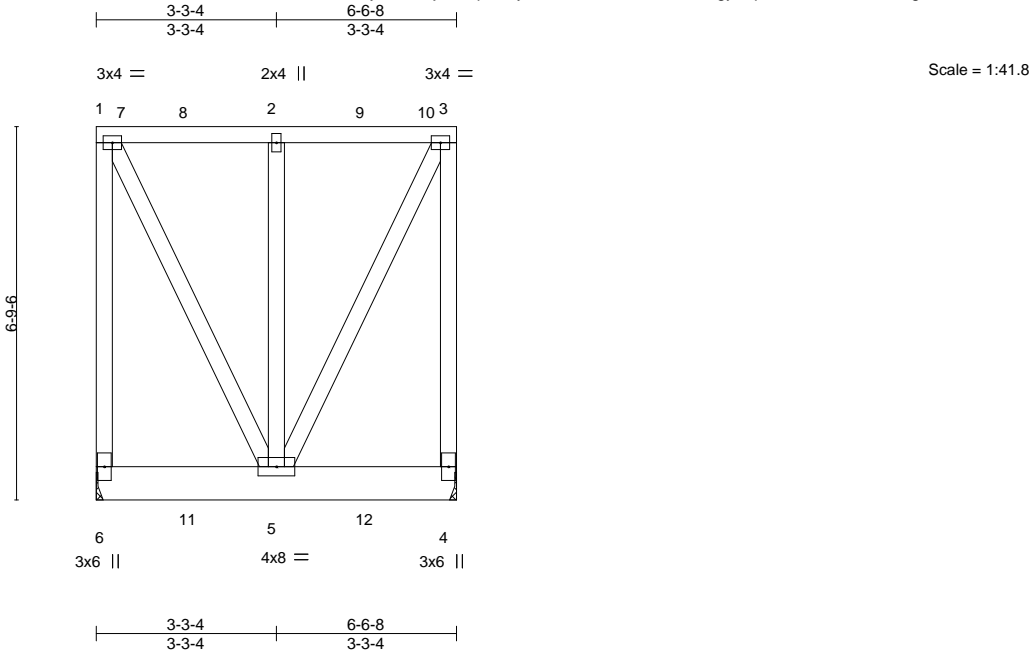


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.
3363898	TG03	Flat Girder	1	2	T29562187

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Wed Jan 11 06:20:34 2023
Page 1

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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 0.10	Vert(LL)	0.00	5	>999	240	MT20
TCDL 7.0	Lumber DOL		1.25	BC 0.01	Vert(CT)	-0.00	5	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr		NO	WB 0.06	Horz(CT)	-0.00	4	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014			Matrix-MP						
									Weight: 151 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (size) 6=Mechanical, 4=Mechanical
Max Uplift 6=-263(LC 4), 4=-263(LC 4)
Max Grav 6=397(LC 32), 4=397(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-315/221, 3-4=-315/221
WEBS 1-5=-184/270, 2-5=-365/261, 3-5=-184/270

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 263 lb uplift at joint 6 and 263 lb uplift at joint 4.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 108 lb down and 85 lb up at 1-8-0, and 108 lb down and 85 lb up at 3-3-4, and 108 lb down and 85 lb up at 4-10-8 on top chord, and 98 lb down and 75 lb up at 1-8-0, and 98 lb down and 75 lb up at 3-3-4, and 98 lb down and 75 lb up at 4-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

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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Continued on page 2

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LEECH RES.	T29562187
3363898	TG03	Flat Girder	1	2	Job Reference (optional)	

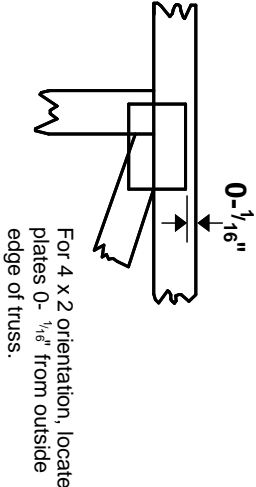
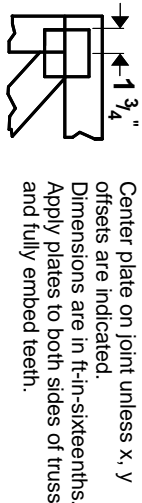
Builders FirstSource (Lake City,FL),
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Page 2
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LOAD CASE(S)
Standard
Concentrated Loads (lb)
Vert: 5=-37(F) 2=-68(F) 8=-68(F) 9=-68(F) 11=-37(F) 12=-37(F)



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.

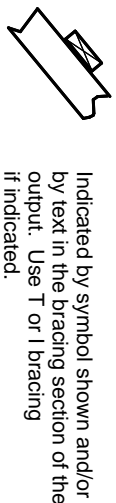
For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

PLATE SIZE

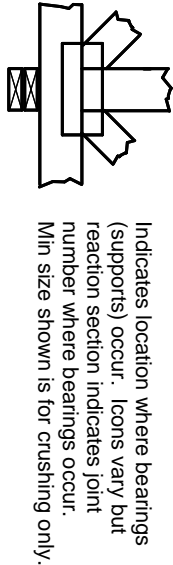
4 X 4

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

LATERAL BRACING LOCATION



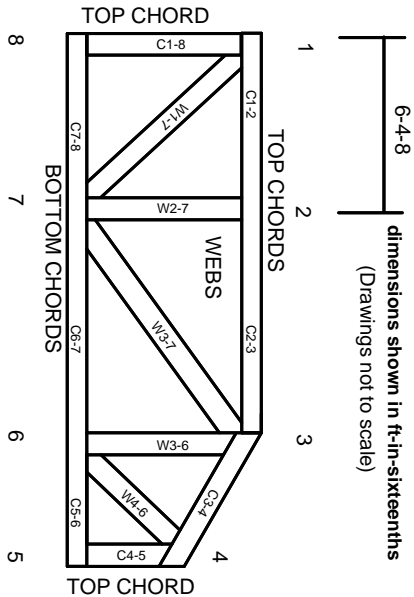
BEARING



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

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

Numbering System



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

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