



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

RE: 3418371 - BLAKE - PRICE RES.

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:

Customer Info: BLAKE CONST. Project Name: Price 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 16 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	T29921955	F01	2/28/23	15	T29921969	T06	2/28/23
2	T29921956	F02	2/28/23	16	T29921970	T07	2/28/23
3	T29921957	F03	2/28/23				
4	T29921958	KW1	2/28/23				
5	T29921959	PB01	2/28/23				
6	T29921960	PB01G	2/28/23				
7	T29921961	PB02	2/28/23				
8	T29921962	PB03	2/28/23				
9	T29921963	T01	2/28/23				
10	T29921964	T01G	2/28/23				
11	T29921965	T02	2/28/23				
12	T29921966	T03	2/28/23				
13	T29921967	T04	2/28/23				
14	T29921968	T05	2/28/23				



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

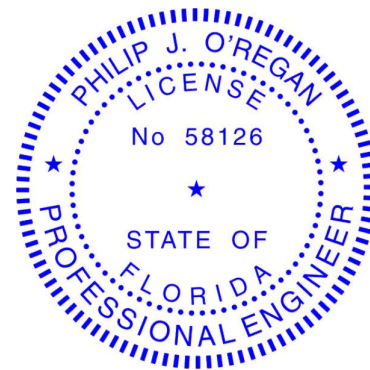
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

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

My license renewal date for the state of Florida is February 28, 2025.

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



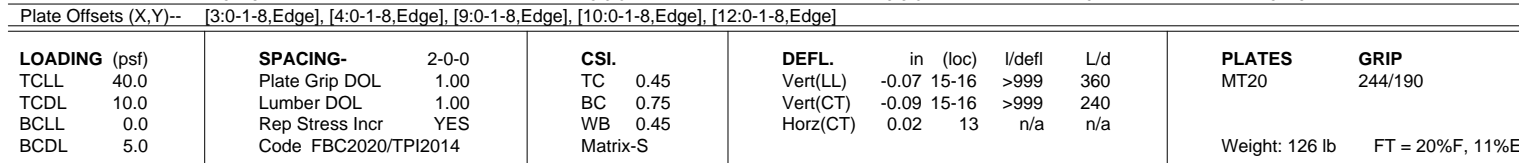
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28, 2023

O'Regan, Philip

1 of 1

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 27 14:20:49 2023 Page 1
ID:hrk?DrraHa8liZDfPLSKNDyFfsK-gpXNP4!2VvJumBBC0tL5tCucXbf2uhlPccIzrgvIS



REACTIONS. (size) 28=0-3-0, 13=0-3-0, 20=0-3-8
Max Grav 28=567(LC 3), 13=582(LC 4), 20=1521(LC 1)

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

TOP CHORD	1-28=-562/0, 12-13=-577/0, 1-2=-531/0, 2-3=-1130/0, 3-4=-1223/0, 4-5=-906/93, 5-6=-29/433, 6-8=-20/451, 8-9=-934/65, 9-10=-1280/0, 10-11=-1178/0, 11-12=-548/0
BOT CHORD	26-27=0/992, 25-26=0/1223, 24-25=0/1223, 23-24=0/1223, 21-23=-249/608, 20-21=-1060/0, 19-20=-1060/0, 18-19=-222/615, 17-18=0/1280, 16-17=0/1280, 15-16=0/1280, 14-15=0/1025
WEBS	6-20=-1498/0, 1-27=0/683, 6-21=0/925, 2-27=-640/0, 5-21=-853/0, 5-23=0/493, 4-23=-540/0, 12-14=0/705, 6-19=0/937, 11-14=-663/0, 8-19=-862/0, 8-18=0/509, 9-18=-568/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) 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.
 - 4) CAUTION. Do not erect truss backwards.

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
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Date:

February 28, 2023



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MH-7473 (REV. 3/19/2020) 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 personnel injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building C**

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	BLAKE - PRICE RES.	T29921956
3418371	F02	Floor	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 27 14:20:49 2023 Page 1
ID:hrk?DrraHa8liZDfPLSKNDyFfsK-gpXXNP4l?2VvJumBBC0tL5tCWcaRf32hIPccIRzgvIS

0-1-8
1-3-0
1-2-0
0-1-8
Scale = 1:20.1

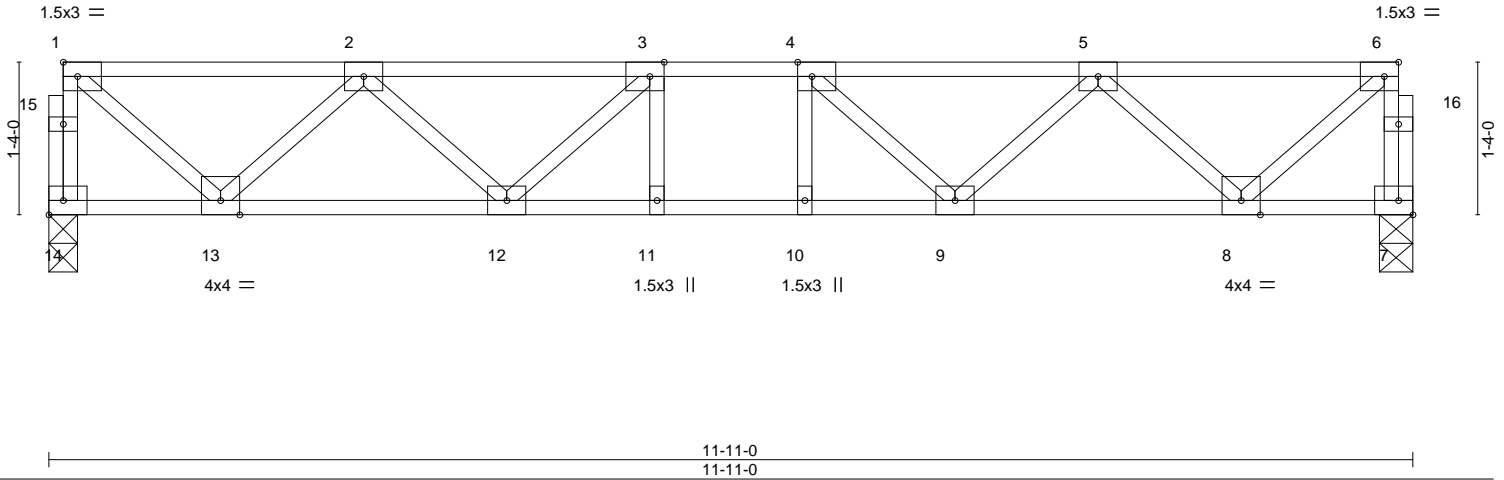


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [6:0-1-8,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.41	Vert(LL)	-0.05 11-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.57	Vert(CT)	-0.07 11-12	>999	240		
BCLL 0.0	Rep Stress Incr YES	WB 0.37	Horz(CT)	0.02 7	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014	Matrix-S					Weight: 64 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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) 14=0-3-0, 7=0-3-8
Max Grav 14=635(LC 1), 7=635(LC 1)

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

TOP CHORD 1-14=-631/0, 6-7=-631/0, 1-2=-608/0, 2-3=-1348/0, 3-4=-1550/0, 4-5=-1348/0, 5-6=-608/0
BOT CHORD 12-13=0/1134, 11-12=0/1550, 10-11=0/1550, 9-10=0/1550, 8-9=0/1134
WEBS 6-8=0/782, 1-13=0/782, 5-8=-731/0, 2-13=-731/0, 5-9=0/317, 2-12=0/317, 4-9=-359/0, 3-12=-359/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 MT20 unless otherwise indicated.
- 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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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2023

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

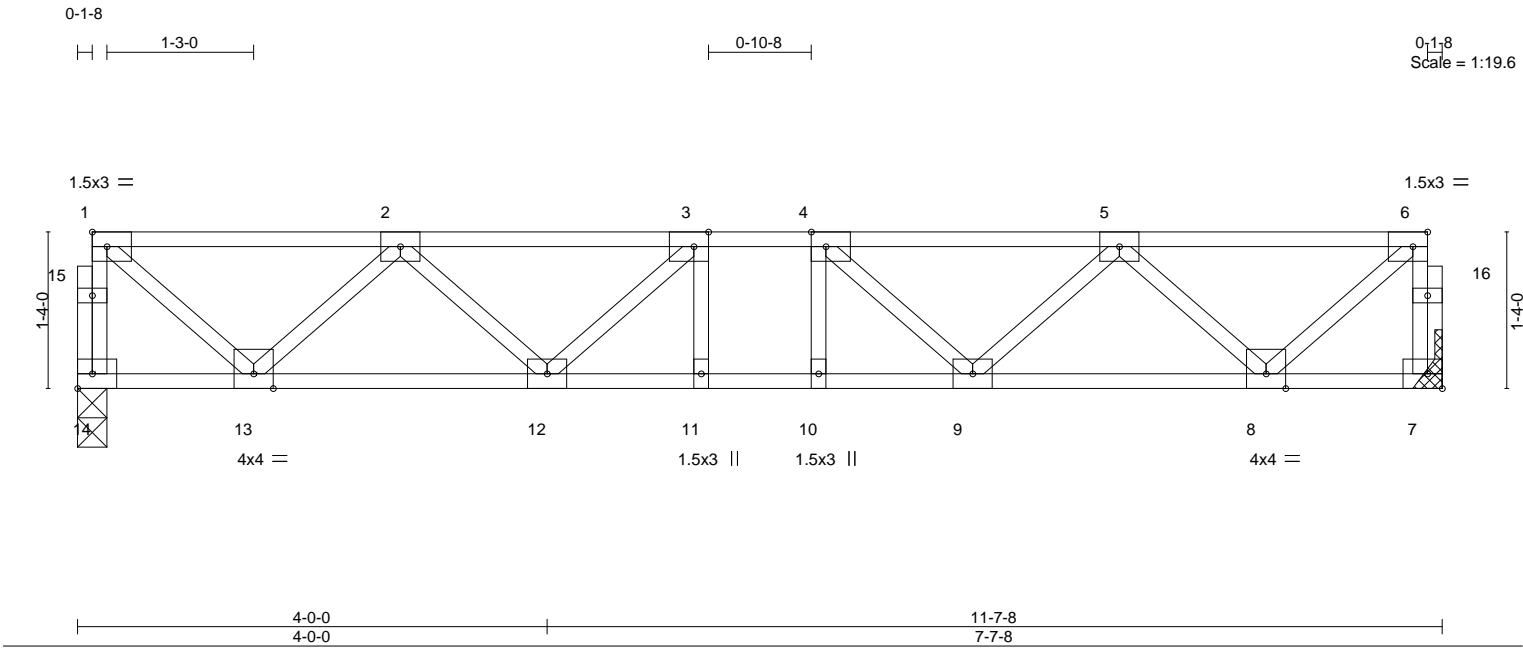


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	BLAKE - PRICE RES.	T29921957
3418371	F03	FLOOR	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 27 14:20:50 2023 Page 1
ID:hrk?DrraHa8liZDfPLSKNDyFfsK-8?5val5wmMdmx2LNlvX6tJPNL0xZOWSrX3MAHTzgvIR



LOADING (psf)	SPACING-	CSL.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.40	Vert(LL)	-0.05	11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.51	Vert(CT)	-0.06	11	>999	240		
BCLL 0.0	Rep Stress Incr YES	WB 0.36	Horz(CT)	0.02	7	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014	Matrix-S						Weight: 63 lb	FT = 20%F, 11%E

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

REACTIONS.	(size) 14=0-3-0, 7=Mechanical
	Max Grav 14=619(LC 1), 7=619(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-14=-615/0, 6-7=-615/0, 1-2=-590/0, 2-3=-1297/0, 3-4=-1481/0, 4-5=-1297/0, 5-6=-590/0
BOT CHORD	12-13=0/1099, 11-12=0/1481, 10-11=0/1481, 9-10=0/1481, 8-9=0/1099
WEBS	6-8=0/758, 1-13=0/758, 5-8=-708/0, 2-13=-708/0, 5-9=0/294, 2-12=0/294, 4-9=-325/0, 3-12=-325/0

NOTES-	
1) Unbalanced floor live loads have been considered for this design.	
2) All plates are 3x4 MT20 unless otherwise indicated.	
3) Refer to girder(s) for truss to truss connections.	
4) 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:

February 28,2023

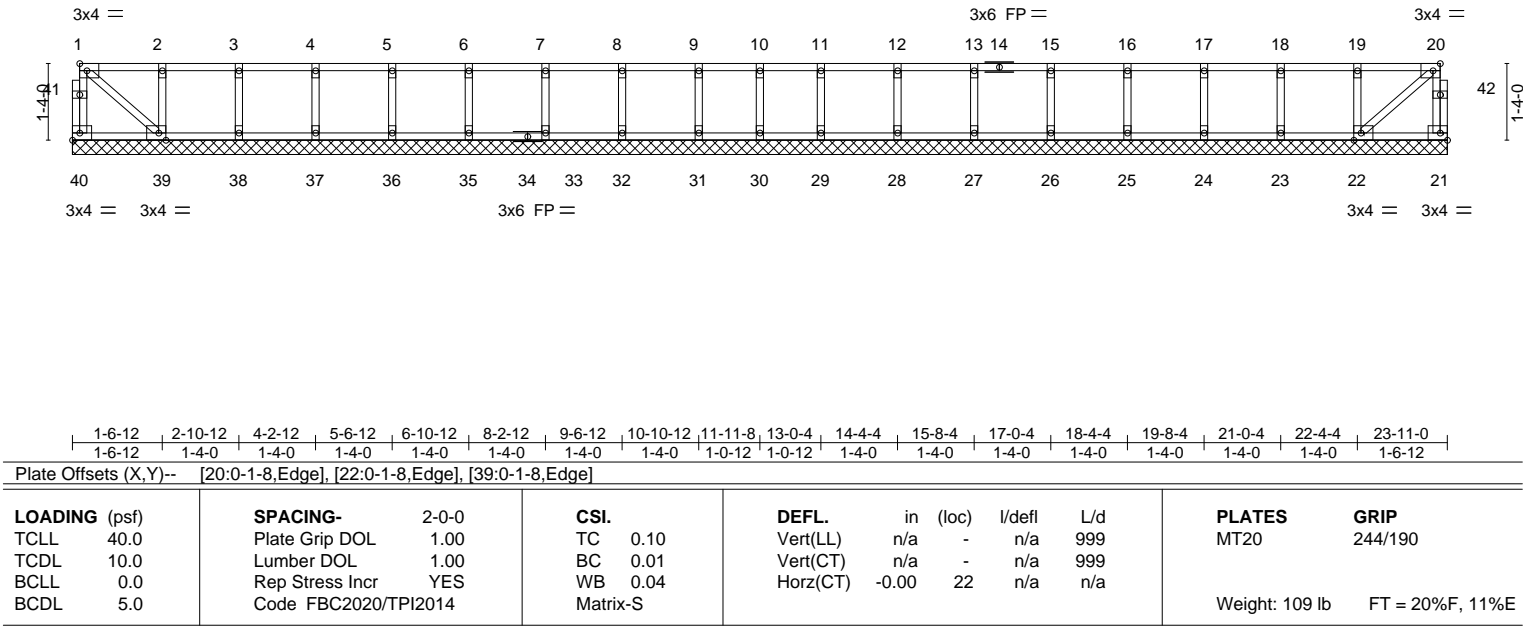
Job	Truss	Truss Type	Qty	Ply	BLAKE - PRICE RES.	T29921958
3418371	KW1	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Mon Feb 27 14:20:51 2023
Page 1
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0-1-8

0-1-8

Scale = 1:40.1



LUMBER-				BRACING-			
TOP CHORD	2x4 SP No.2(flat)			TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.		
BOT CHORD	2x4 SP No.2(flat)			BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 39-40,21-22.		
WEBS	2x4 SP No.3(flat)						
OTHERS	2x4 SP No.3(flat)						

REACTIONS. All bearings 23-11-0.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 39, 22, 30, 23, 24, 25, 26, 27, 28, 29, 38, 37, 36, 35, 33, 32, 31

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) 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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 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

February 28,2023

Job	Truss	Truss Type	Qty	Ply	BLAKE - PRICE RES.	T29921959
3418371	PB01	PIGGYBACK	4	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 27 14:20:52 2023 Page 1
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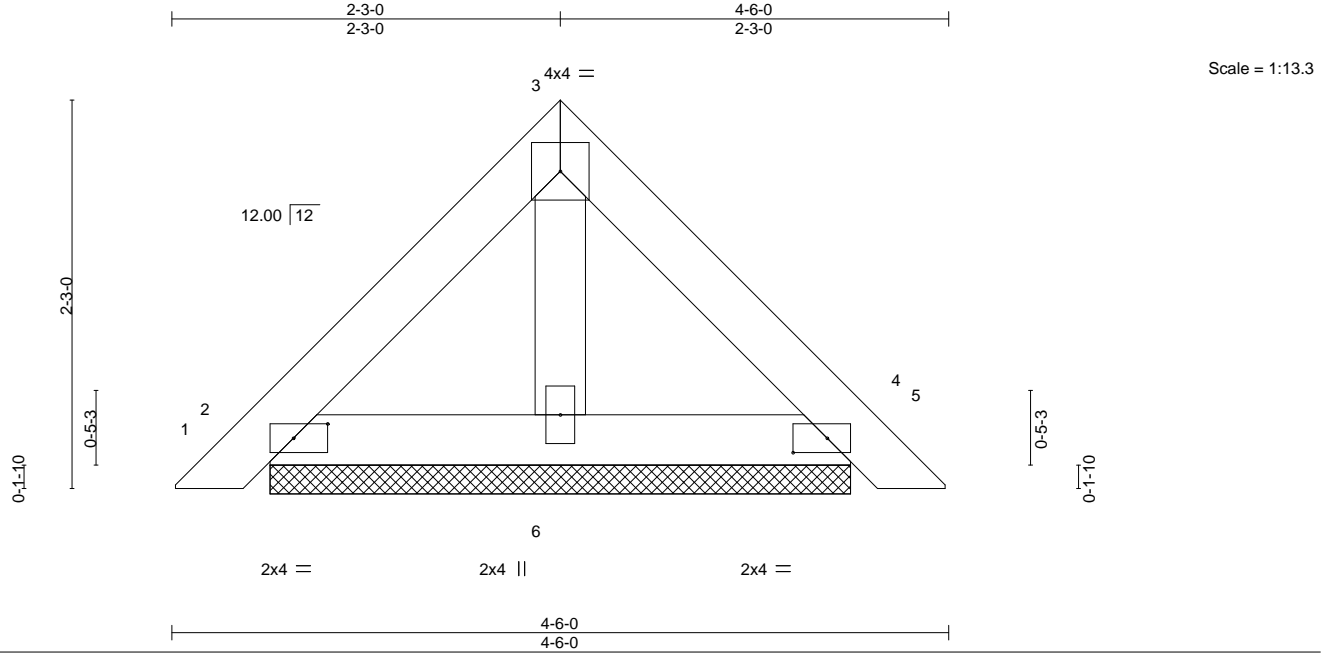


Plate Offsets (X,Y)--		[2:0-2-6,0-1-0], [4:0-2-6,0-1-0]													
LOADING	(psf)	SPACING-		CSL		DEFL.	in	(loc)	I/defl	L/d		PLATES	GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.09	Vert(LL)	0.00	4	n/r	120		MT20	244/190		
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	4	n/r	120					
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a					
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-P											
												Weight: 17 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 4-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=3-4-6, 4=3-4-6, 6=3-4-6
Max Horz 2=-45(LC 10)
Max Uplift 2=-28(LC 12), 4=-33(LC 13), 6=-1(LC 12)
Max Grav 2=95(LC 1), 4=95(LC 1), 6=98(LC 3)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 2, 33 lb uplift at joint 4 and 1 lb uplift at joint 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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

February 28,2023

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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	BLAKE - PRICE RES.	T29921960
3418371	PB01G	GABLE	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 27 14:20:53 2023 Page 1
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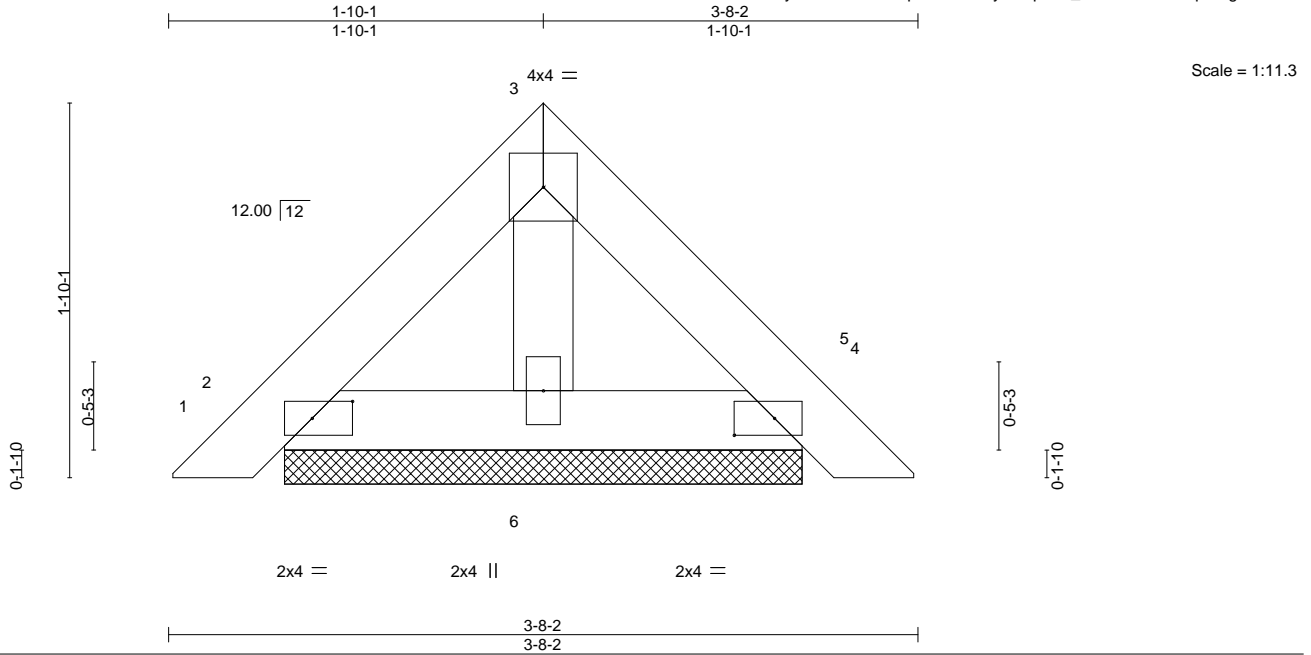


Plate Offsets (X,Y)--		[2:0-2-6,0-1-0], [4:0-2-6,0-1-0]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.05		Vert(LL)	0.00 4	n/r	120	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.02		Vert(CT)	0.00 4	n/r	120		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.01		Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0		Code	FBC2020/TPI2014	Matrix-P						Weight: 13 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 3-8-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=2-6-8, 4=2-6-8, 6=2-6-8
Max Horz 2=-36(LC 10)
Max Uplift 2=-23(LC 12), 4=-27(LC 13)
Max Grav 2=77(LC 1), 4=77(LC 1), 6=74(LC 3)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 23 lb uplift at joint 2 and 27 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	BLAKE - PRICE RES.	T29921961
3418371	PB02	PIGGYBACK	1	2	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 27 14:20:54 2023 Page 1
ID:hrk?DrraHa8liZdFPLSKNDyFfsK-1mLQQ68Rqa7BPfe9_lb229a7ldP?KOxQShKNQfzgvIN

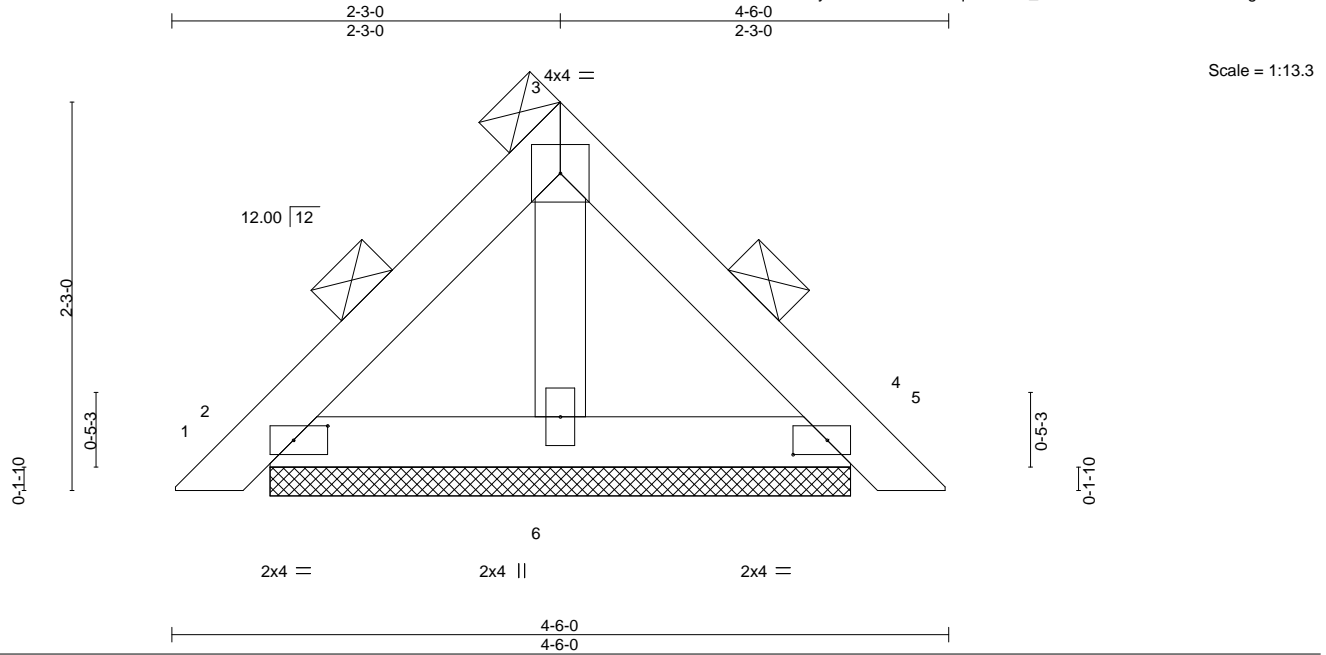


Plate Offsets (X,Y)--		[2:0-2-6,0-1-0], [4:0-2-6,0-1-0]										
LOADING (psf)		SPACING- 4-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.08	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-P							Weight: 33 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD 2-0-0 oc purlins
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=3-4-6, 4=3-4-6, 6=3-4-6
Max Horz 2=90(LC 11)
Max Uplift 2=55(LC 12), 4=65(LC 13), 6=3(LC 12)
Max Grav 2=190(LC 1), 4=190(LC 1), 6=197(LC 3)

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

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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 55 lb uplift at joint 2, 65 lb uplift at joint 4 and 3 lb uplift at joint 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.

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:

February 28, 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	BLAKE - PRICE RES.	T29921963
3418371	T01	ATTIC	4	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 27 14:20:57 2023 Page 1
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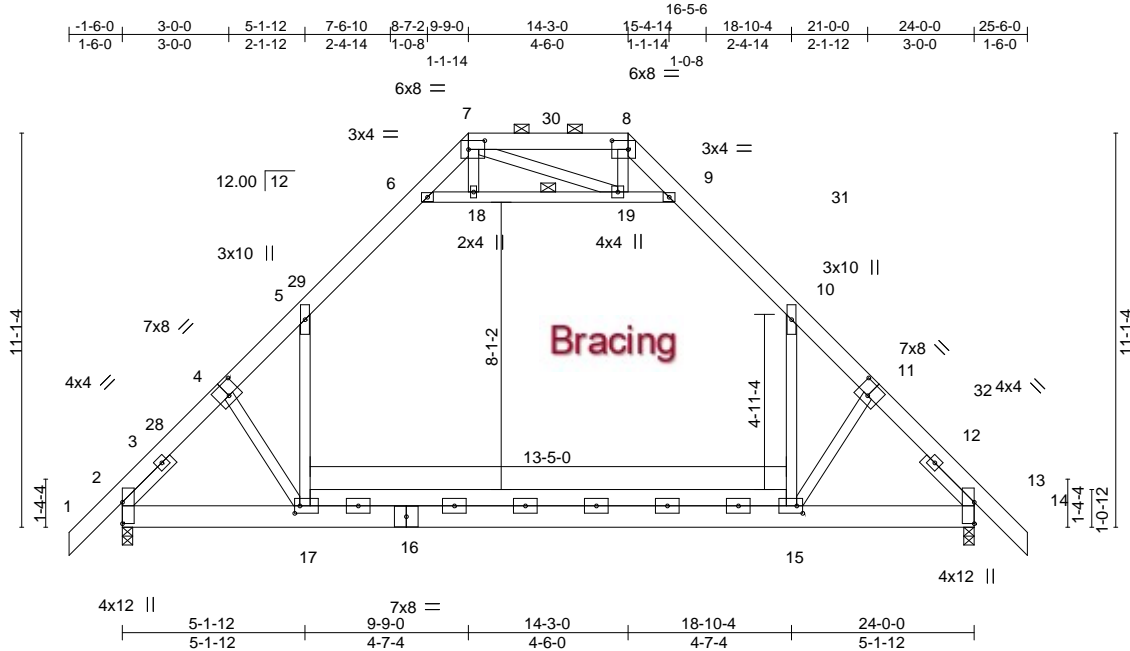


Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [7:0-5-8,0-3-0], [8:0-5-8,0-3-0], [11:0-4-0,0-4-8], [15:0-2-0,0-2-8], [17:0-1-12,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.54	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.80	Vert(LL) -0.32 15-17 >905 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.68	Vert(CT) -0.52 15-17 >550 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 2 n/a n/a		
	Code FBC2020/TP12014		Attic -0.19 15-17 889 360	Weight: 245 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
4-7,8-11: 2x6 SP M 26
BOT CHORD 2x8 SP 2400F 2.0E *Except*
15-17: 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-8, Right 2x4 SP No.3 1-11-8

REACTIONS.

(size) 2=0-3-8, 13=0-3-8
Max Horz 2=250(LC 10)
Max Uplift 2=11(LC 12), 13=11(LC 13)
Max Grav 2=1510(LC 2), 13=1510(LC 2)

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

TOP CHORD 2-4=-1779/43, 4-5=-1766/7, 5-6=-952/113, 6-7=-100/346, 7-8=0/632, 8-9=-84/372,
9-10=-953/122, 10-11=-1762/6, 11-13=-1776/44
BOT CHORD 2-17=-5/1250, 15-17=0/1039, 13-15=0/1166
WEBS 4-17=-395/163, 5-17=0/1216, 6-18=-1525/108, 18-19=-1518/110, 9-19=-1556/112,
10-15=0/1211, 11-15=-394/164

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-9-0, Exterior(2E) 9-9-0 to 14-3-0, Exterior(2R) 14-3-0 to 18-5-15, Interior(1) 18-5-15 to 25-6-0 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.
- All plates are 5x8 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-18, 18-19, 9-19; Wall dead load (5.0psf) on member(s).5-17, 10-15
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 2 and 11 lb uplift at joint 13.
- 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:

February 28,2023

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	BLAKE - PRICE RES.	T29921964
3418371	T01G	ATTIC	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 27 14:20:58 2023 Page 1

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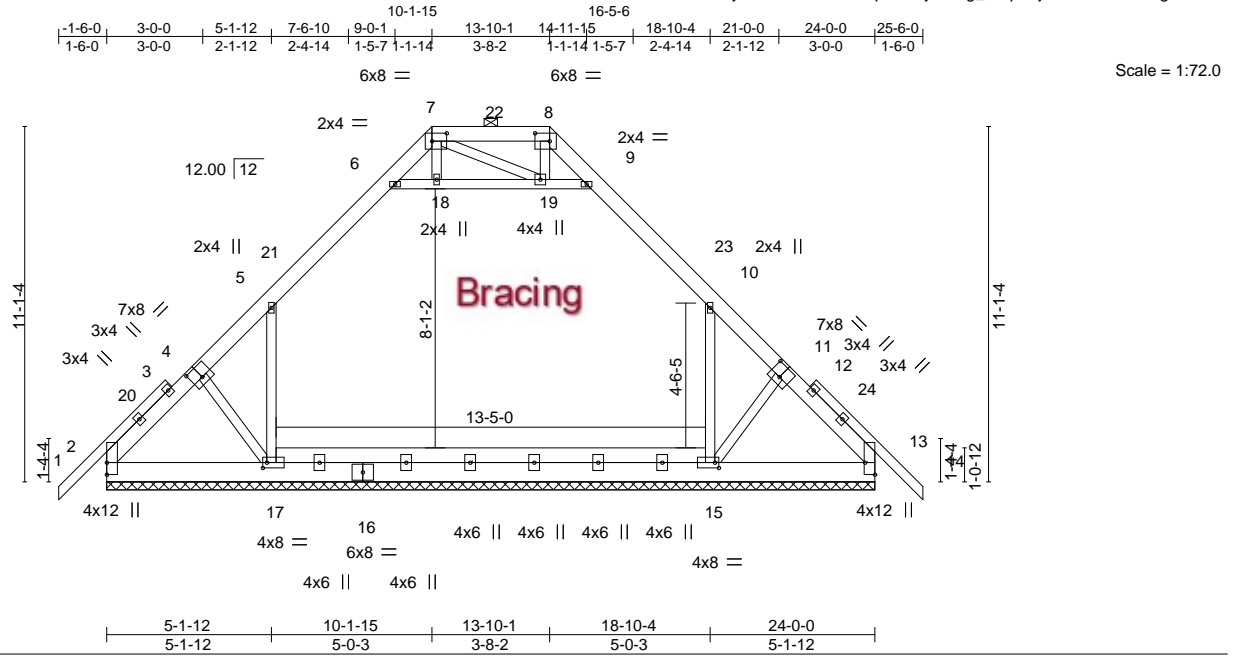


Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [7:0-5-8,0-3-0], [8:0-5-8,0-3-0], [11:0-4-0,0-4-8], [13:Edge,0-3-11], [15:0-1-8,0-2-0], [17:0-1-8,0-2-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.13	Vert(LL)	-0.01	14	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.21	Vert(CT)	-0.01	14	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.01	13	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 240 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-3,12-14: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD 2x8 SP 2400F 2.0E *Except* 15-17: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. All bearings 24-0-0.
(lb) - Max Horz 2=246(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 13, 2 except 17=180(LC 12), 15=179(LC 13)
Max Grav All reactions 250 lb or less at joint(s) except 13=554(LC 1), 2=552(LC 1), 17=935(LC 20), 15=927(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-570/103, 4-5=-452/118, 5-6=-531/124, 6-7=-267/57, 8-9=-262/55, 9-10=-531/138,
10-11=-451/114, 11-13=-569/99
BOT CHORD 2-17=-90/347, 15-17=-68/362, 13-15=-62/336
WEBS 5-17=-352/217, 10-15=-349/215

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-1-15, Exterior(2E) 10-1-15 to 13-10-1, Exterior(2R) 13-10-1 to 18-1-0, Interior(1) 18-1-0 to 25-6-0 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.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-18, 18-19, 9-19; Wall dead load (5.0psf) on member(s).5-17, 10-15
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 2 except (jt=lb) 17=180, 15=179.
- 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:

February 28,2023

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	BLAKE - PRICE RES.	T29921965
3418371	T02	ATTIC GIRDER	1	2	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 27 14:21:00 2023 Page 1
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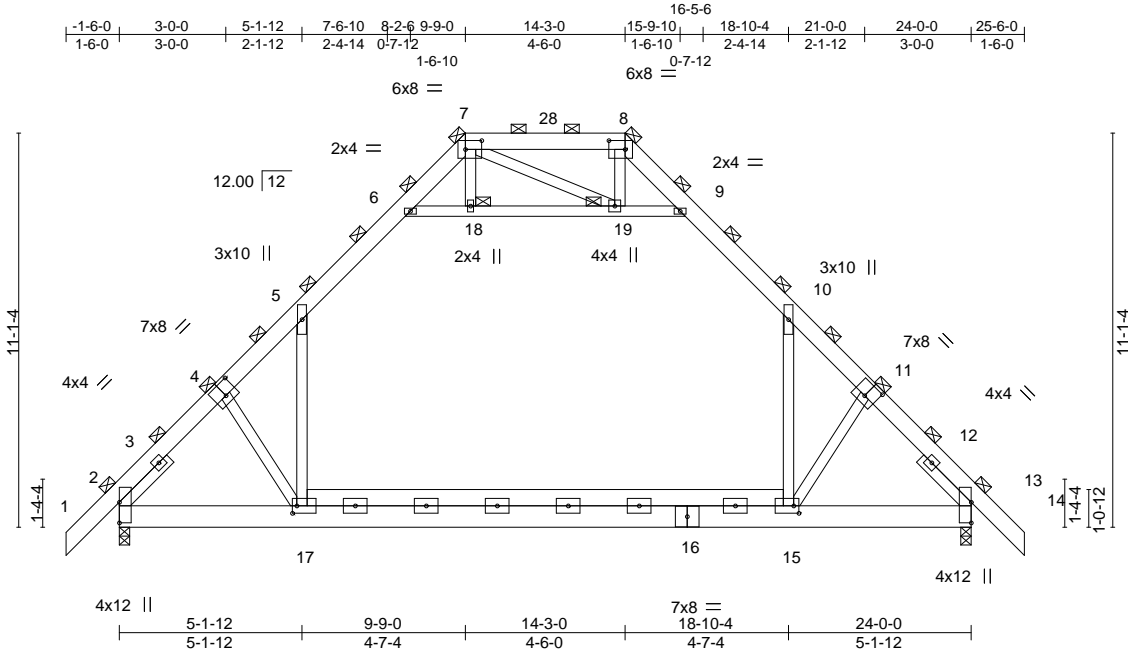


Plate Offsets (X,Y)--		[4:0-4-0,0-4-8], [7:0-5-8,0-3-0], [8:0-5-8,0-3-0], [11:0-4-0,0-4-8], [15:0-1-12,0-2-8], [17:0-1-8,0-2-8]									
LOADING (psf)		SPACING-	4-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.29 15-17	>984	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.48 15-17	>601	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.02 2	n/a	n/a		
BCDL	10.0	Code FBC2020/TP12014		Matrix-MS		Attic	-0.18 15-17	926	360	Weight: 496 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 4-7,8-11: 2x6 SP M 26	TOP CHORD 2-0-0 oc purlins (6-0-0 max.) (Switched from sheathed: Spacing > 2-8-0).
BOT CHORD 2x8 SP 2400F 2.0E *Except* 15-17: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 7, 8, 18, 19
SLIDER Left 2x4 SP No.3 1-11-8, Right 2x4 SP No.3 1-11-8	This truss requires both edges of the bottom chord be sheathed in the room area.

REACTIONS. (size) 2=0-3-8, 13=0-3-8
Max Horz 2=-500(LC 6)
Max Uplift 2=-23(LC 8), 13=-23(LC 9)
Max Grav 2=3019(LC 2), 13=3019(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-3584/0, 4-5=-3533/14, 5-6=-1947/220, 6-7=-349/447, 7-8=0/861, 8-9=-331/477,
9-10=-1948/220, 10-11=-3527/12, 11-13=-3579/0
BOT CHORD 2-17=-8/2492, 15-17=0/2139, 13-15=0/2329
WEBS 4-17=-660/319, 5-17=0/2376, 6-18=-2712/184, 18-19=-2703/187, 9-19=-2749/188,
10-15=0/2368, 11-15=-658/321

- NOTES-
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 5x8 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-18, 18-19, 9-19; Wall dead load (5.0psf) on member(s).5-17, 10-15
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13.
 - 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
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Date:

February 28,2023

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	BLAKE - PRICE RES.	T29921966
3418371	T03	ATTIC GIRDER	2	3	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 27 14:21:01 2023 Page 1
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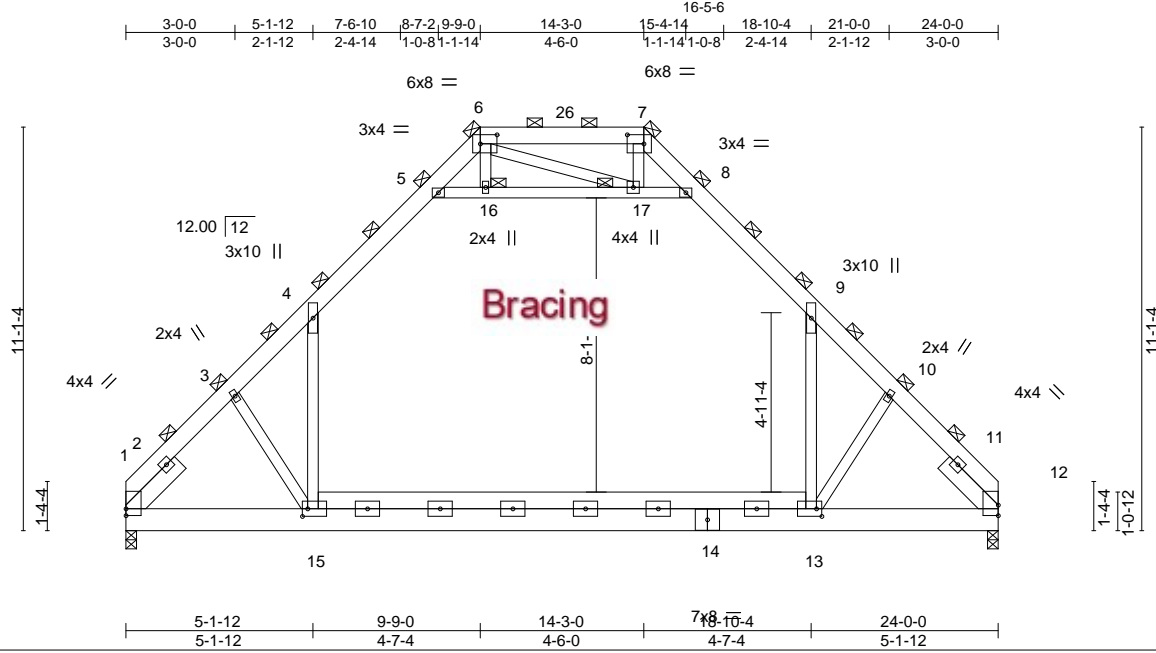


Plate Offsets (X,Y)-- [6:0-5-8,0-3-0], [7:0-5-8,0-3-0], [13:0-1-12,0-2-8], [15:0-1-12,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	6-0-0	TC 0.62	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.87	Vert(LL) -0.32 13-15 >908 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.59	Vert(CT) -0.52 13-15 >550 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.02 1 n/a n/a		
	Code FBC2020/TPI2014		Attic -0.18 13-15 897 360	Weight: 716 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP M 26 *Except*
6-7: 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E *Except*
13-15: 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 1=0-3-8, 12=0-3-8
Max Horz 1=651(LC 4)
Max Grav 1=4331(LC 2), 12=4331(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-5407/43, 3-4=-5368/31, 4-5=-2873/344, 5-6=-290/1042, 6-7=0/1902,
7-8=-244/1121, 8-9=-2876/344, 9-10=-5357/29, 10-12=-5399/46
BOT CHORD 1-15=-106/3725, 13-15=0/3091, 12-13=0/3453
WEBS 3-15=-1204/533, 4-15=0/3712, 5-16=-4616/335, 16-17=-4595/339, 8-17=-4711/346,
9-13=0/3697, 7-17=-59/287, 6-17=-411/354, 10-13=-1200/536

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: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 5x8 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-16, 16-17, 8-17; Wall dead load (5.0psf) on member(s). 4-15, 9-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- 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.

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheathed: Spacing > 2-8-0).
Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD 1 Brace at Jt(s): 6, 7, 16, 17
JOINTS This truss requires both edges of the bottom chord be sheathed in the room area.

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

February 28, 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

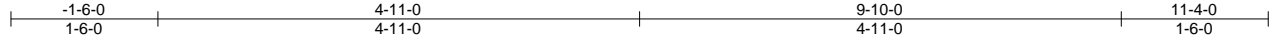


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Chesterfield, MO 63017

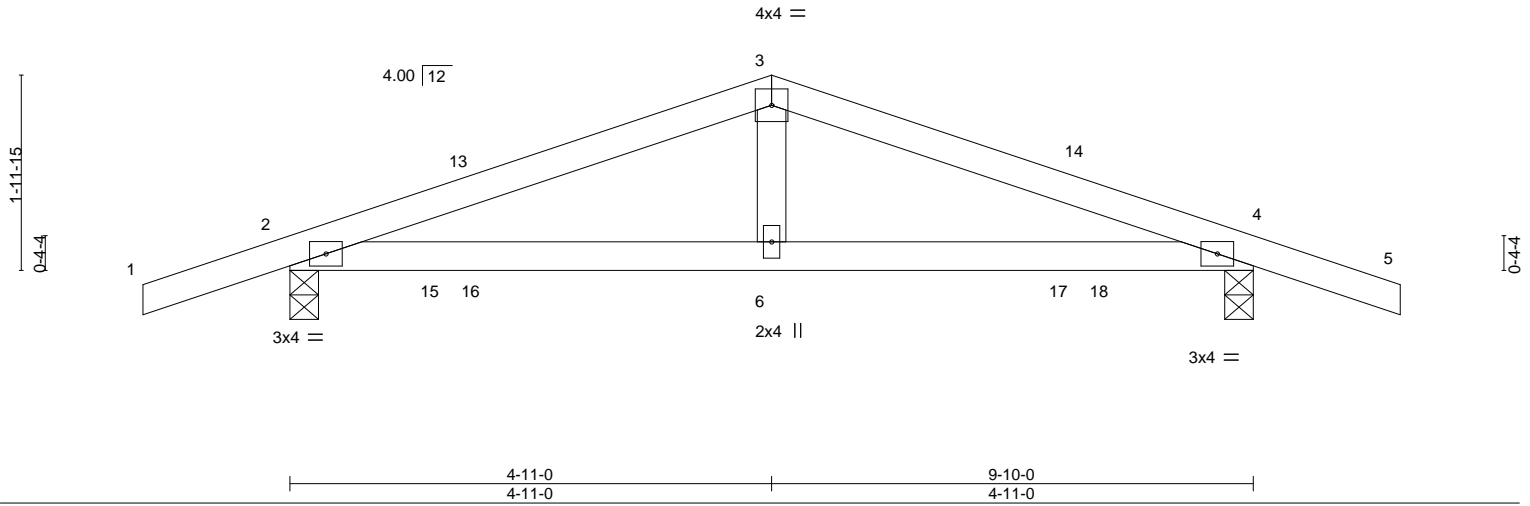
Job	Truss	Truss Type	Qty	Ply	BLAKE - PRICE RES.	T29921967
3418371	T04	Common	5	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 27 14:21:02 2023 Page 1
ID:hrk?DrraHa8liZDfPLSKNDyFfsK-oJpR6rFSx283NuGhSRkwNrvRts4HC?qcixGpJBzgvIF



Scale = 1:23.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.37	Vert(LL) 0.06	6-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.26	Vert(CT) 0.05	6-9	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) -0.01	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 37 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-1-15 oc bracing.

REACTIONS.

(size) 2=0-3-8, 4=0-3-8
Max Horz 2=-32(LC 13)
Max Uplift 2=-224(LC 8), 4=-224(LC 9)
Max Grav 2=445(LC 1), 4=445(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-627/954, 3-4=-627/953
BOT CHORD 2-6=-829/563, 4-6=-829/563
WEBS 3-6=-357/211

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-0, Exterior(2R) 4-11-0 to 7-11-0, Interior(1) 7-11-0 to 11-4-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=224, 4=224.

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February 28, 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	BLAKE - PRICE RES.	T29921968
3418371	T05	Common	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 27 14:21:03 2023 Page 1
ID:hrk?DrraHa8liZDfPLSKNDyFfsK-GVNpJBF4iLGw?2qt?8G9v2SbJFQJxSGIWb?MFdzgviE

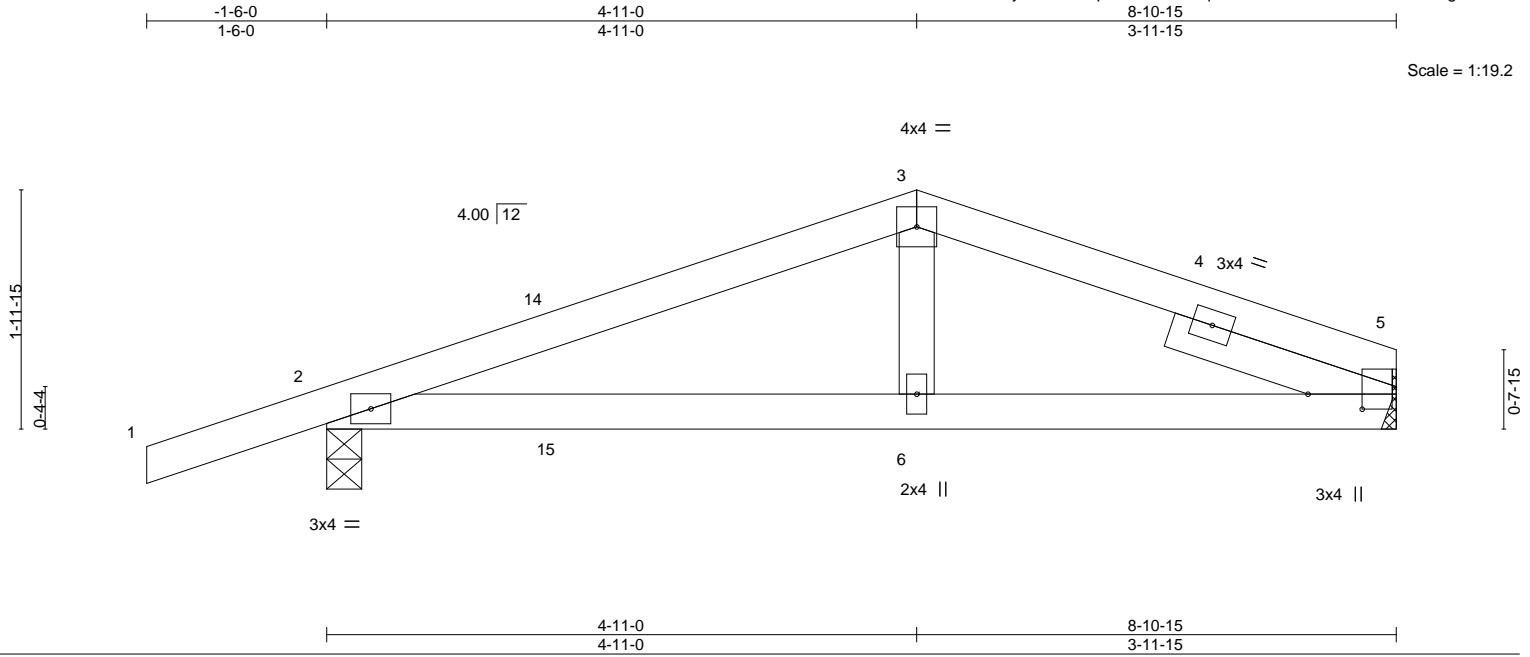


Plate Offsets (X,Y)--		[5:0-1-8,0-5-7]									
LOADING	(psf)	SPACING-		CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	0.06	6-13	>999	240	MT20
TCDL	7.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	0.06	6-13	>999	180	GRIP
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.01	5	n/a	n/a	244/190
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 35 lb
											FT = 20%

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

REACTIONS. (size) 5=Mechanical, 2=0-3-8
Max Horz 2=48(LC 8)
Max Uplift 5=144(LC 9), 2=212(LC 8)
Max Grav 5=323(LC 1), 2=418(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-525/833, 3-5=-471/863
BOT CHORD 2-6=-769/466, 5-6=-769/466
WEBS 3-6=-326/178

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-0, Exterior(2R) 4-11-0 to 8-2-2, Interior(1) 8-2-2 to 8-10-15 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 5=144, 2=212.

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



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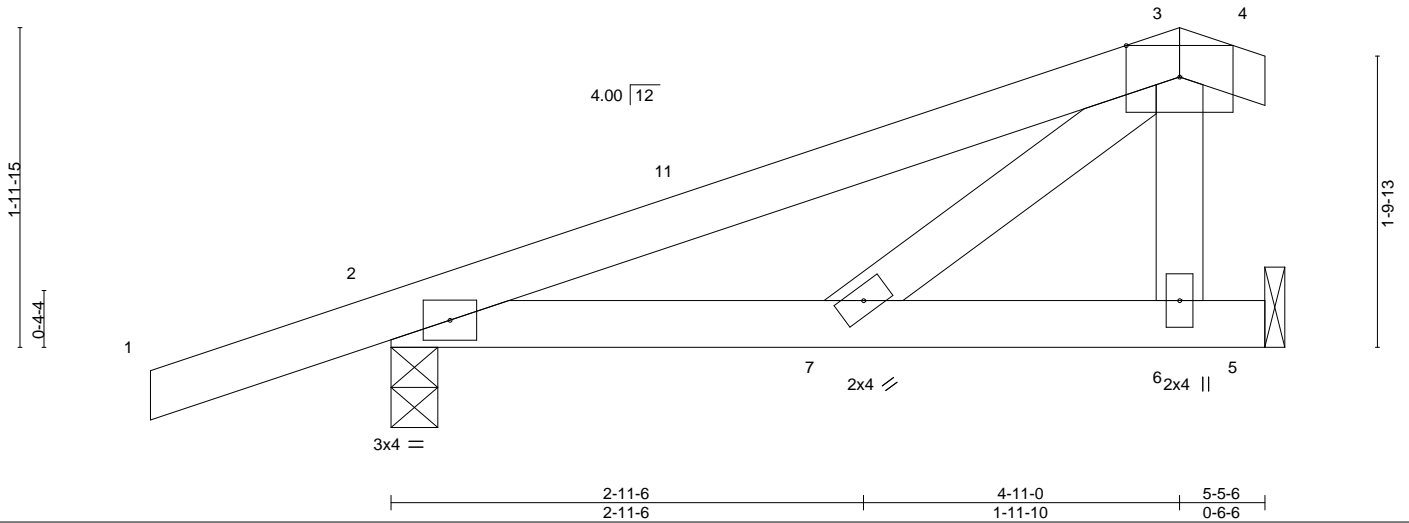
Job	Truss	Truss Type	Qty	Ply	BLAKE - PRICE RES.	T29921969
3418371	T06	Common	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 27 14:21:04 2023 Page 1
ID:hrk?DrraHa8liZdfPLSKNDyFfsK-khxCWXGiTfOmcCP4ZsnOSG_pBfmNgvvulFlvn4zgviD



5x8 = Scale = 1:14.4



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.25	Vert(LL)	-0.01	7-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.22	Vert(CT)	-0.01	6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP						Weight: 25 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 5=Mechanical
Max Horz 2=73(LC 8)
Max Uplift 2=-111(LC 8), 5=-54(LC 8)
Max Grav 2=292(LC 1), 5=191(LC 1)

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

TOP CHORD 2-3=-272/160
WEBS 3-7=-237/278, 3-6=-224/263

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-0, Exterior(2E) 4-11-0 to 5-5-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=111.

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

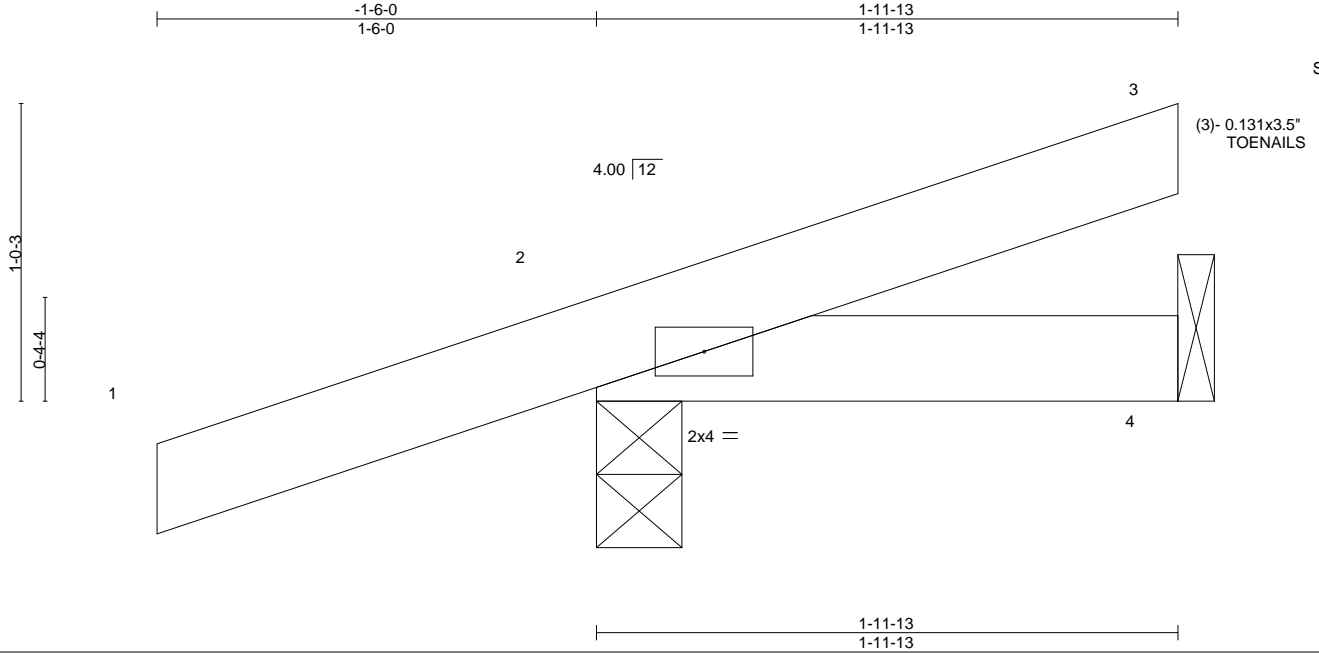


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	BLAKE - PRICE RES.	T29921970
3418371	T07	Monopitch	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 27 14:21:05 2023 Page 1
ID:hrk?DrraHa8liZDfPLSKNDyFfsK-CuVaktHKEzWdEm_G7Zld_TX0t38TPNp2_vUTJWzgvIC



Scale = 1:7.9

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.12	Vert(LL) 0.00	7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.10	Vert(CT) -0.00	7	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP					Weight: 9 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-11-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 4=Mechanical
Max Horz 2=44(LC 8)
Max Uplift 2=-110(LC 8), 4=-33(LC 9)
Max Grav 2=185(LC 1), 4=45(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 1-11-13 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 100 lb uplift at joint(s) 4 except (jt=lb) 2=110.

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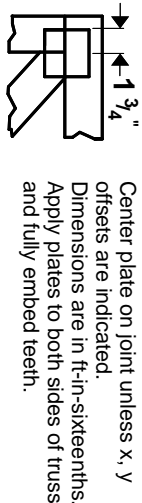
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



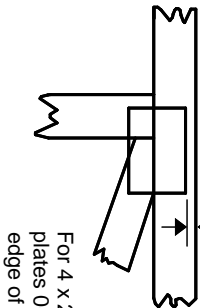
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



0- $\frac{1}{16}$ "



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

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

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

PLATE SIZE

4 X 4

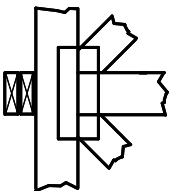
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



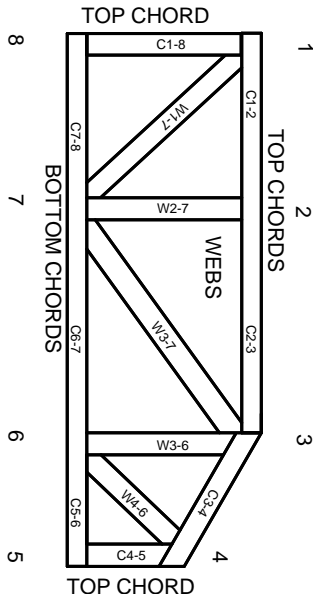
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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