



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

RE: 3112322 - IC CONST. - WILKEY RES.

MiTek USA, Inc.
 6904 Parke East Blvd.
 Tampa, FL 33610-4115

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Wilkey 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 8.4
 Wind Code: ASCE 7-16 Wind Speed: 130 mph
 Roof Load: 37.0 psf Floor Load: N/A psf

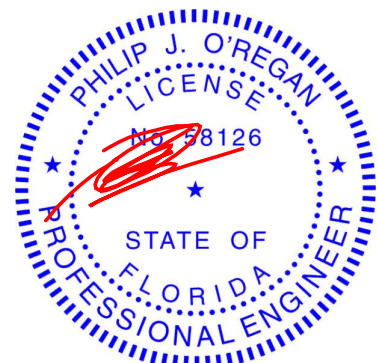
This package includes 34 individual, Truss Design Drawings and 0 Additional Drawings.
 With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T27386224	EJ01	4/11/22	23	T27386246	T12	4/11/22
2	T27386225	EJ02	4/11/22	24	T27386247	T12G	4/11/22
3	T27386226	EJ02G	4/11/22	25	T27386248	T13	4/11/22
4	T27386227	PB01	4/11/22	26	T27386249	T13D	4/11/22
5	T27386228	PB01G	4/11/22	27	T27386250	T13G	4/11/22
6	T27386229	PB02	4/11/22	28	T27386251	T14	4/11/22
7	T27386230	PB02G	4/11/22	29	T27386252	T14G	4/11/22
8	T27386231	PB03	4/11/22	30	T27386253	T15	4/11/22
9	T27386232	PB04	4/11/22	31	T27386254	T15G	4/11/22
10	T27386233	T01	4/11/22	32	T27386255	TG01	4/11/22
11	T27386234	T01G	4/11/22	33	T27386256	TG02	4/11/22
12	T27386235	T02	4/11/22	34	T27386257	TG03	4/11/22
13	T27386236	T03	4/11/22				
14	T27386237	T04	4/11/22				
15	T27386238	T05	4/11/22				
16	T27386239	T06	4/11/22				
17	T27386240	T06G	4/11/22				
18	T27386241	T07	4/11/22				
19	T27386242	T08	4/11/22				
20	T27386243	T09	4/11/22				
21	T27386244	T10	4/11/22				
22	T27386245	T11	4/11/22				

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 USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

April 11, 2022

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKEY RES.	T27386224
3112322	EJ01	Jack-Open	12	1		

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:01:47 2022 Page 1

ID:WAwkW2WKQ8asokypuHB6CYzSsON-d_vbxBBMB?Ek6tA7J6g0tmPjm2_8HTA5X643UJzSpOY



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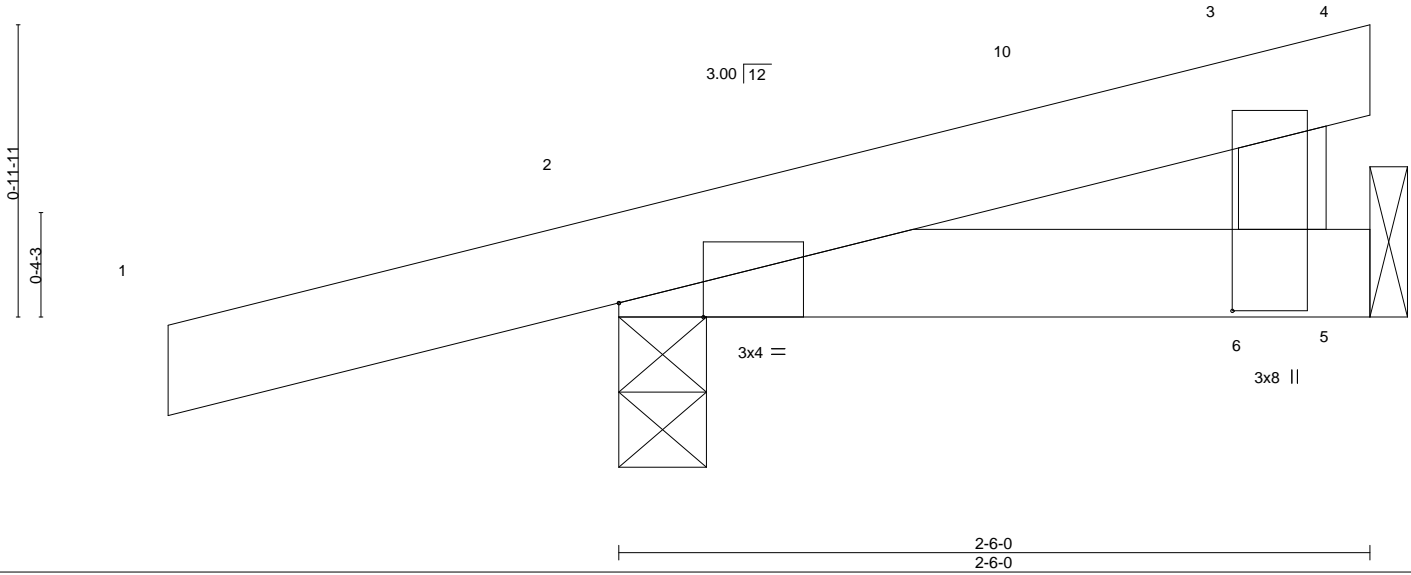


Plate Offsets (X,Y)--	[2:0-3-6,Edge], [6:0-0-5,2-0-8]
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LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.12	Vert(LL) -0.00	9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.04	Vert(CT) -0.00	9	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP					Weight: 10 lb	FT = 20%

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

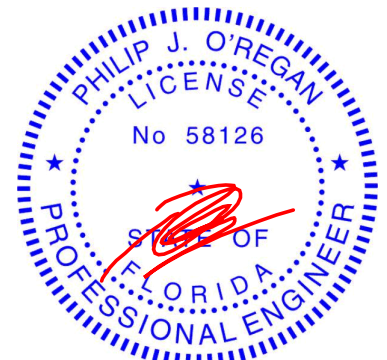
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=Mechanical
 Max Horz 2=39(LC 8)
 Max Uplift 2=-98(LC 8), 6=-20(LC 12)
 Max Grav 2=190(LC 1), 6=69(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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 2 and 20 lb uplift at joint 6.



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 Date:

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

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

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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 Tampa, FL 36610

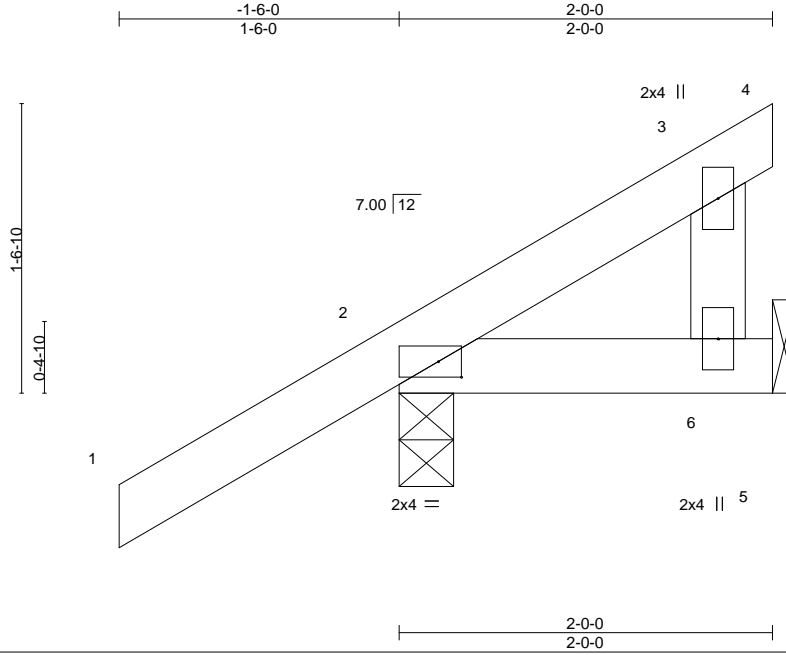
Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKEY RES.	T27386225
3112322	EJ02	Jack-Open	5	1		

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:01:47 2022 Page 1

ID:WAwkW2WkQ8asokypuHB6CYzSsON-d_vbxBBMB?Ek6tA7J6g0tmPIM2_1HTG5X643UJzSpOY



Scale = 1:12.3

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

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 0.15	Vert(LL)	-0.00	9	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.00	9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	2	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MP					Weight: 10 lb	FT = 20%

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

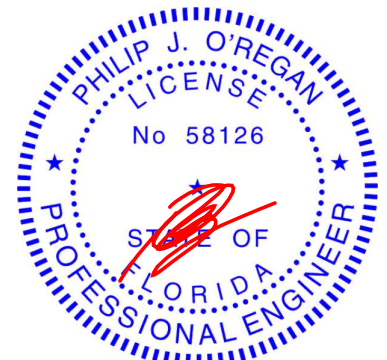
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=Mechanical
 Max Horz 2=67(LC 12)
 Max Uplift 2=-58(LC 12), 5=-16(LC 12)
 Max Grav 2=184(LC 1), 5=46(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 58 lb uplift at joint 2 and 16 lb uplift at joint 5.



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 Date:

April 11,2022

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

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 Tampa, FL 36610

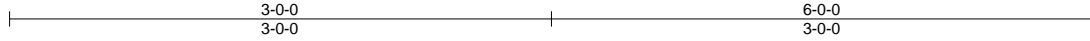
Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKEY RES.	T27386227
3112322	PB01	Piggyback	16	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

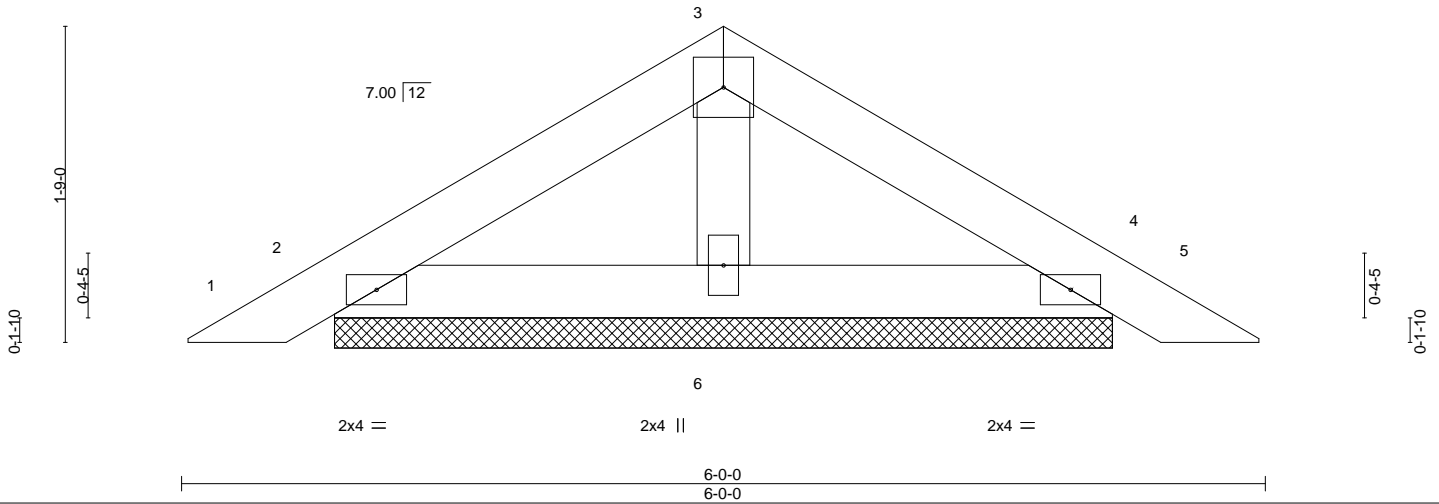
Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:01:49 2022 Page 1

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Scale = 1:12.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	Vert(LL)	0.00	5	n/r	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.05	Vert(CT)	0.00	5	n/r		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.02	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 18 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

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

BRACING-

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

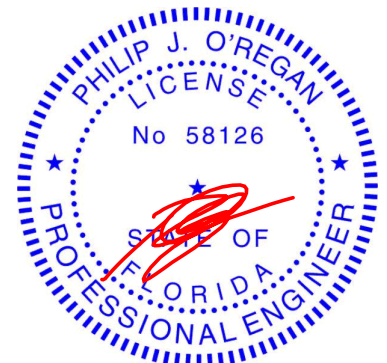
REACTIONS.

(size) 2=4-3-11, 4=4-3-11, 6=4-3-11
 Max Horz 2=36(LC 11)
 Max Uplift 2=40(LC 12), 4=45(LC 13), 6=12(LC 12)
 Max Grav 2=115(LC 1), 4=115(LC 1), 6=147(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; 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 40 lb uplift at joint 2, 45 lb uplift at joint 4 and 12 lb uplift at joint 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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 6904 Parke East Blvd. Tampa FL 33610
 Date:

April 11,2022

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

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



6904 Parke East Blvd.
 Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKEY RES.	T27386228
3112322	PB01G	GABLE	2	1	Job Reference (optional)	

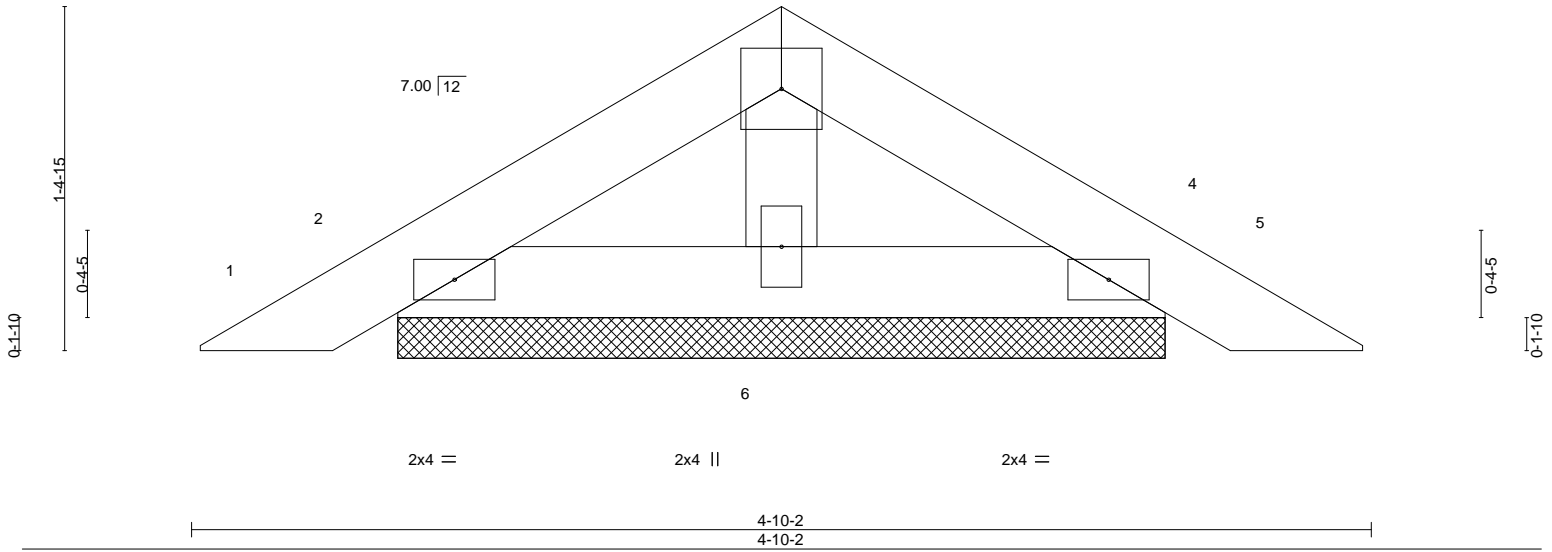
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:01:49 2022 Page 1

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4-10-2
4-10-2

Scale = 1:9.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.03	Vert(LL)	0.00	4	n/r	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.03	Vert(CT)	0.00	4	n/r		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.01	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 14 lb	FT = 20%
	Code FBC2020/TPI2014							

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 4-10-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

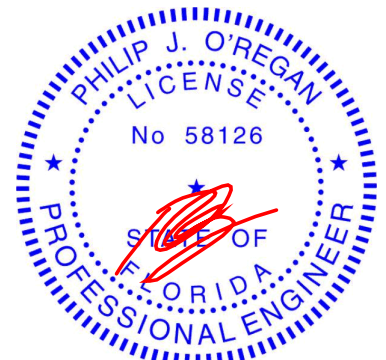
REACTIONS.

(size) 2=3-1-13, 4=3-1-13, 6=3-1-13
Max Horz 2=-28(LC 10)
Max Uplift 2=-34(LC 12), 4=-38(LC 13), 6=-7(LC 12)
Max Grav 2=94(LC 1), 4=94(LC 1), 6=104(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; 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 34 lb uplift at joint 2, 38 lb uplift at joint 4 and 7 lb uplift at joint 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Date:

April 11,2022

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

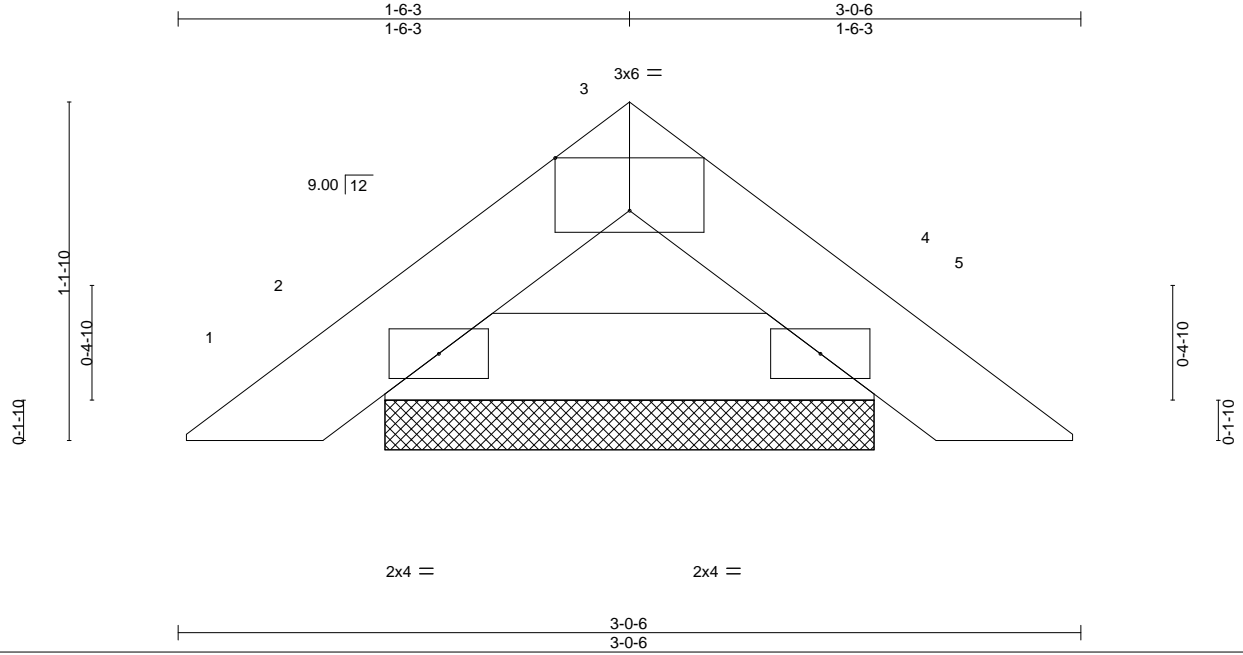
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Job 3112322	Truss PB02G	Truss Type PIGGYBACK	Qty 2	Ply 1	IC CONST. - WILKEY RES. Job Reference (optional)	T27386230
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:01:50 2022 Page 1
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Scale = 1:7.7

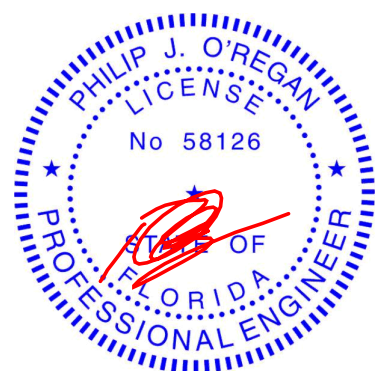
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.02	Vert(LL)	-0.00	4	n/r	120	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.00	4	n/r	120	Weight: 8 lb FT = 20%		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-P									

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

REACTIONS. (size) 2=1-7-11, 4=1-7-11
 Max Horz 2=21(LC 11)
 Max Uplift 2=-23(LC 12), 4=-23(LC 13)
 Max Grav 2=84(LC 1), 4=84(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=22ft; 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 23 lb uplift at joint 2 and 23 lb uplift at joint 4.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Philip J. O'Regan PE No.58126
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

April 11,2022

Job 3112322	Truss PB03	Truss Type Piggyback	Qty 2	Ply 2	IC CONST. - WILKEY RES. Job Reference (optional)	T27386231
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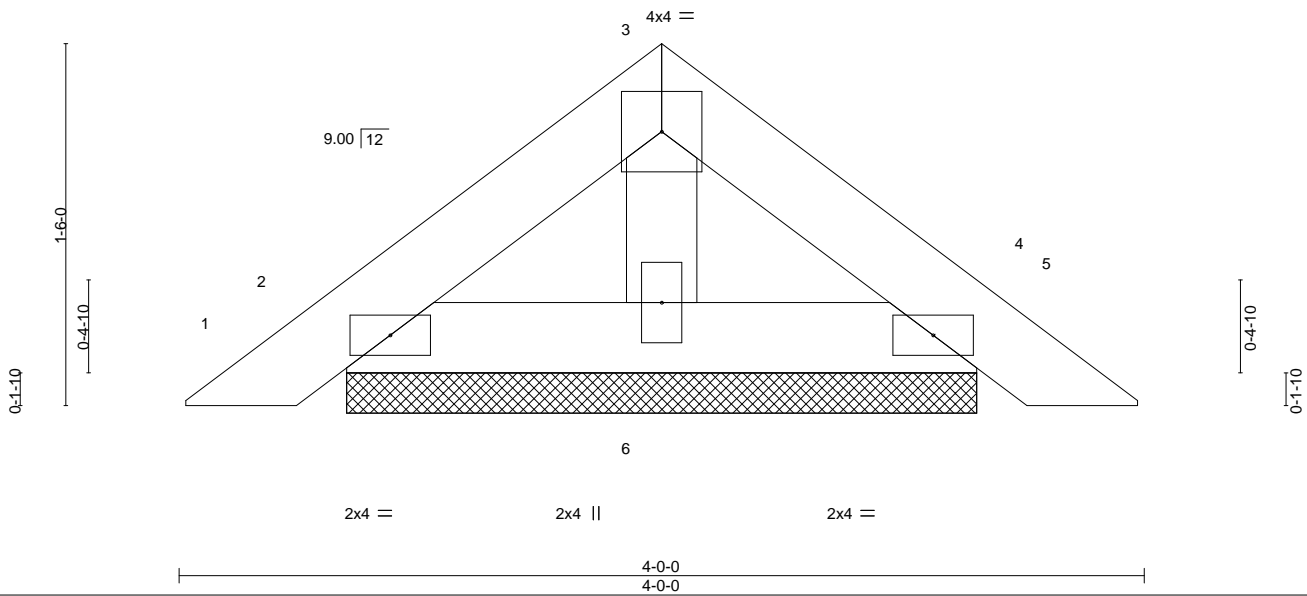
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:01:51 2022 Page 1

ID:WAwkW2WKQ8asokypuHB6CYzSsON-VI86nZEsEDkAbVTuYyly1ca?RfMVDHNgSk2Hd4zSpOU

4-0-0
4-0-0

Scale = 1:9.5



LOADING (psf)	SPACING-	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	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.01	Vert(CT) 0.00	4	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P					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 4-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

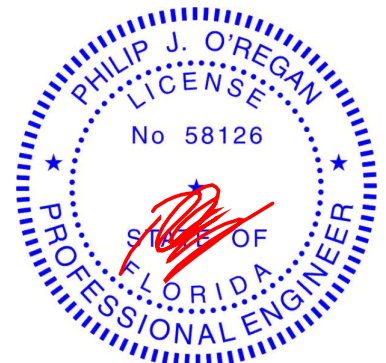
REACTIONS.

(size) 2=2-7-5, 4=2-7-5, 6=2-7-5
Max Horz 2=-30(LC 10)
Max Uplift 2=-28(LC 12), 4=-32(LC 13), 6=-3(LC 12)
Max Grav 2=80(LC 1), 4=80(LC 1), 6=81(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.
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=22ft; 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, 32 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.



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

April 11, 2022

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

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

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

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



6904 Parke East Blvd.
Tampa, FL 36610

Job 3112322	Truss PB04	Truss Type Piggyback	Qty 2	Ply 3	IC CONST. - WILKEY RES. Job Reference (optional)	T27386232
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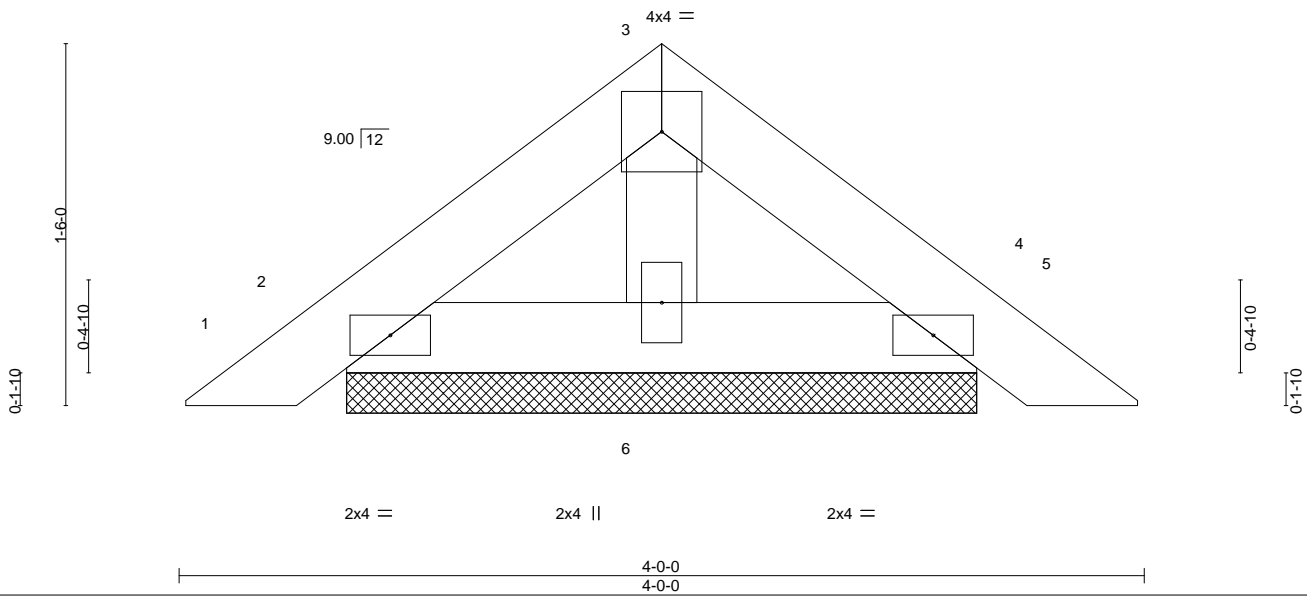
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:01:52 2022 Page 1

ID:WAwkW2WKQ8asokypuHB6CYzSsON-_xiU_vFV?Xs1De256fGBap6AG3inykeqhOoq9WzSpOT

4-0-0
4-0-0

Scale = 1:9.5



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

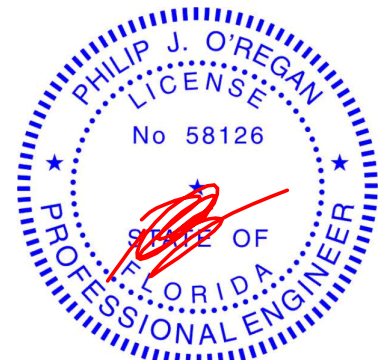
REACTIONS.

(size) 2=2-7-5, 4=2-7-5, 6=2-7-5
Max Horz 2=-30(LC 10)
Max Uplift 2=-28(LC 12), 4=-32(LC 13), 6=-3(LC 12)
Max Grav 2=80(LC 1), 4=80(LC 1), 6=81(LC 1)

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

NOTES-

- 3-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.
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=22ft; 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, 32 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.



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April 11, 2022

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

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

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



6904 Parke East Blvd.
Tampa, FL 36610

Job 3112322	Truss T01	Truss Type Attic	Qty 3	Ply 1	IC CONST. - WILKEY RES. Job Reference (optional)	T27386233
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:01:53 2022 Page 1

ID:WAwkW2WKQ8asokypuHB6CYzSsON-S8GsBFG7mr_urodHgNnQ71fINTy?h5zzv2XOizzSpOS

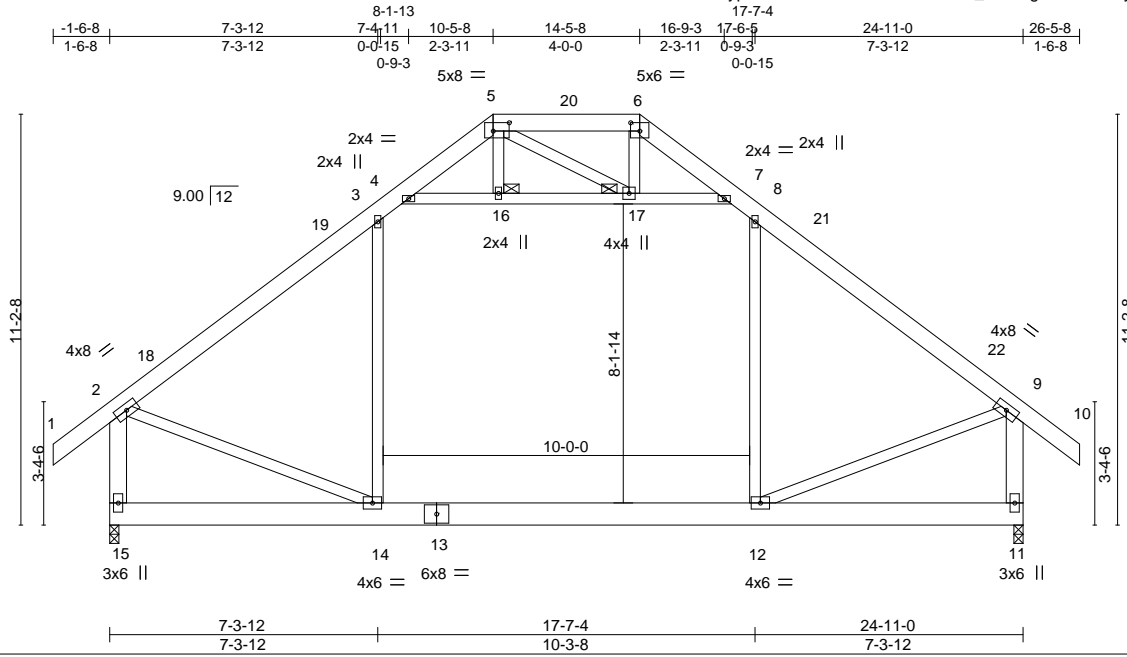


Plate Offsets (X,Y)-- [5:0-5-4,0-2-12], [6:0-3-0,0-2-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.24	Vert(LL) -0.12	12-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.33	Vert(CT) -0.19	12-14	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.45	Horz(CT) 0.01	11	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS	Attic -0.10	12-14	1239	360	Weight: 238 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x8 SP 2400F 2.0E
 WEBS 2x4 SP No.3 *Except*
 2-15,9-11: 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.
 JOINTS 1 Brace at Jt(s): 16, 17

REACTIONS.

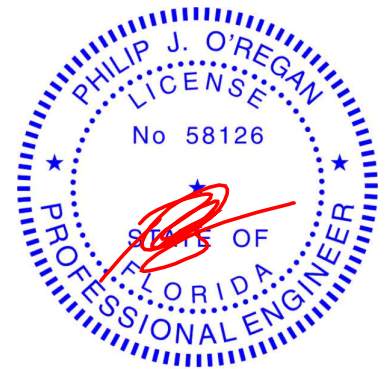
(size) 15=0-3-0, 11=0-3-0
 Max Horz 15=303(LC 11)
 Max Uplift 15=-45(LC 12), 11=-45(LC 13)
 Max Grav 15=1406(LC 2), 11=1406(LC 2)

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

TOP CHORD 2-3=-1388/35, 3-4=-972/98, 4-5=-336/80, 6-7=-331/78, 7-8=-973/98, 8-9=-1387/35,
 2-15=-1417/57, 9-11=-1417/68
 BOT CHORD 14-15=-300/339, 12-14=0/1084
 WEBS 3-14=43/434, 4-16=-938/106, 16-17=-934/107, 7-17=-949/107, 8-12=-44/432,
 2-14=0/1137, 9-12=0/1138

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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 10-5-8, Exterior(2E) 10-5-8 to 14-5-8, Exterior(2R) 14-5-8 to 18-8-7, Interior(1) 18-8-7 to 26-5-8 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 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). 3-4, 7-8, 4-16, 16-17, 7-17; Wall dead load (5.0psf) on member(s).3-14, 8-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 15 and 45 lb uplift at joint 11.
- Attic room checked for L/360 deflection.



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 Date:

April 11, 2022

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ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component

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



6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKEY RES.	T27386234
3112322	T01G	GABLE	1	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:01:55 2022 Page 1

ID:WAwkW2WKQ8asokypuHB6CYzSsON-OWOdcwHNISEc46ngnnpuCSkeFHf9yGWNMOUmrzSpOQ

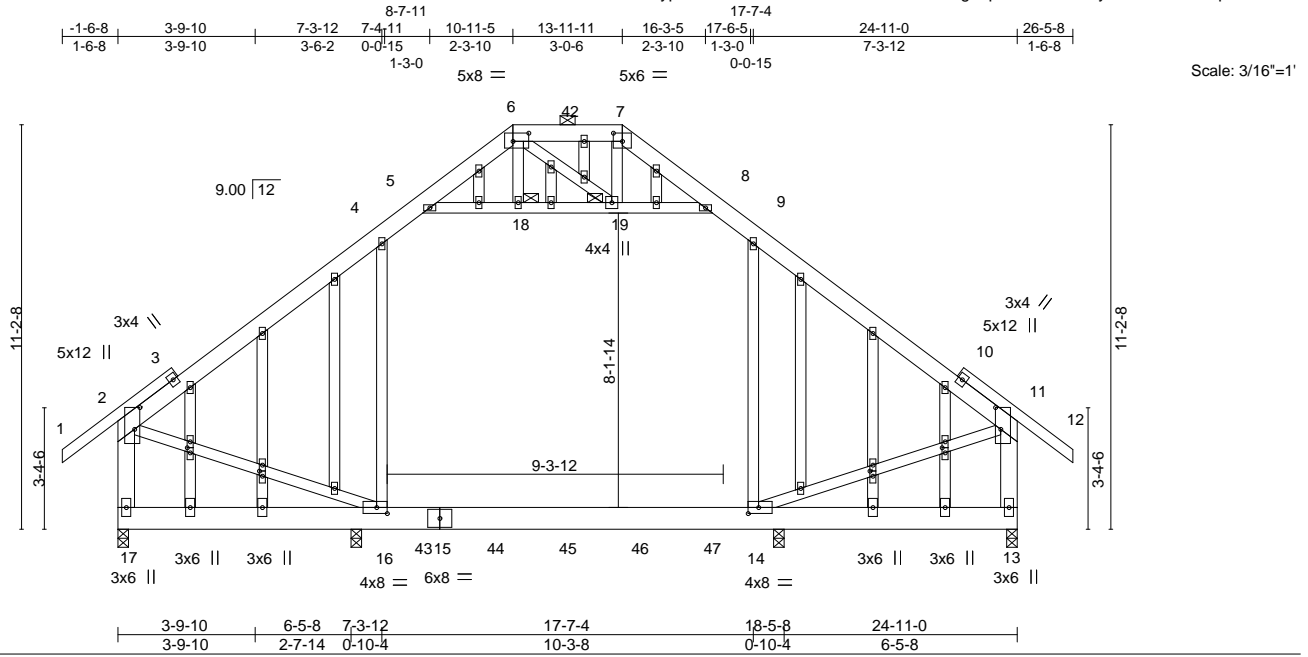


Plate Offsets (X,Y)-- [2:0-7-4,0-1-12], [6:0-5-4,0-2-12], [7:0-3-0,0-2-12], [11:0-7-4,0-1-12], [14:0-3-8,0-2-0], [16:0-3-8,0-2-0], [21:0-1-11,0-1-0], [24:0-1-11,0-1-0], [31:0-1-11,0-1-0], [33:0-1-11,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.31	Vert(LL) -0.09 14-16 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.61	Vert(CT) -0.14 14-16 >912 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) -0.00 13 n/a n/a		
	Code FBC2020/TPI2014		Attic -0.09 14-16 1322 360	Weight: 283 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-3,10-12: 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
2-17,11-13: 2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 18, 19

REACTIONS.

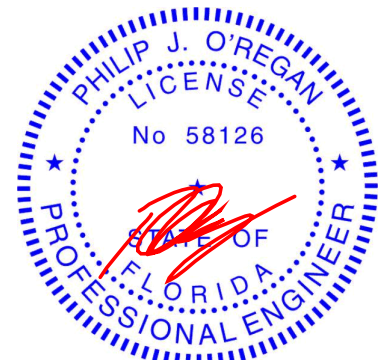
All bearings 0-3-8.
(lb) - Max Horz 17=-296(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 17, 13 except 16=-216(LC 8), 14=-214(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 17=395(LC 20), 13=394(LC 21), 16=1346(LC 34), 14=1336(LC 35)

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

TOP CHORD 4-5=-266/58, 5-6=-342/53, 6-7=-251/60, 7-8=-342/53, 8-9=-266/57, 2-17=-366/36, 11-13=-365/26
BOT CHORD 16-17=-283/291
WEBS 4-16=-549/185, 9-14=-543/184, 2-16=-160/279, 11-14=-152/278

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=22ft; 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable 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.
- Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-18, 18-19, 8-19; Wall dead load (5.0psf) on member(s).4-16, 9-14
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 13 except (jt=lb) 16=216, 14=214.
- 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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6904 Parke East Blvd. Tampa FL 33610
Date:

April 11, 2022

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



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKEY RES.	T27386234
3112322	T01G	GABLE	1	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:01:55 2022 Page 2

ID:WAwkW2WKQ8asokypuHB6CYzSsON-OWOdcwHNISEc46ngnnpuCSkeFHfm9yGNM0UmrzSpOQ

NOTES-

- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 43 lb down and 25 lb up at 8-4-12, 43 lb down and 25 lb up at 10-4-12, 43 lb down and 25 lb up at 12-4-12, and 43 lb down and 25 lb up at 14-4-12, and 43 lb down and 25 lb up at 16-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) Attic room checked for L/360 deflection.
- 16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54, 2-4=-54, 4-5=-64, 5-6=-54, 6-7=-54, 7-8=-54, 8-9=-64, 9-11=-54, 11-12=-54, 16-17=-20, 14-16=-40, 13-14=-20, 5-8=-10

Drag: 4-16=-10, 9-14=-10

Concentrated Loads (lb)

Vert: 43=-13(F) 44=-13(F) 45=-13(F) 46=-13(F) 47=-13(F)

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

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6904 Parke East Blvd.
Tampa, FL 36610

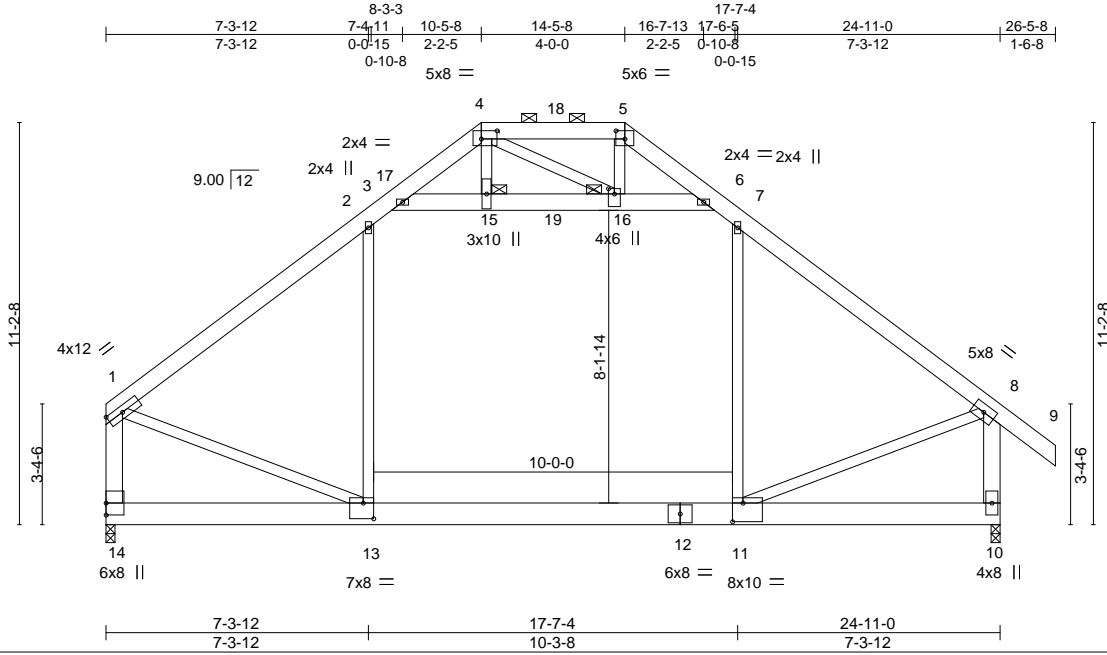
Job 3112322	Truss T02	Truss Type Attic Girder	Qty 1	Ply 3	IC CONST. - WILKEY RES. Job Reference (optional)	T27386235
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Builders FirstSource (Lake City, FL),

Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:01:56 2022 Page 1

ID:WAwkW2WKQ8asokypuHB6CYzSsON-sjy?qGI?3mNSiGMSLVL7kfhHkgxBuKNPc0m2JzSpOP



Scale: 3/16"=1'

Plate Offsets (X,Y)-- [4:0-5-4,0-2-12], [5:0-3-0,0-2-12], [11:0-3-8,0-6-4], [13:0-3-8,0-5-4], [16:0-1-12,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.71	Vert(LL) -0.23	11-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.55	Vert(CT) -0.31	11-13	>941	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.92	Horz(CT) 0.01	10	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS	Attic -0.17	11-13	719	360		
							Weight: 722 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x8 SP 2400F 2.0E
 WEBS 2x4 SP No.3 *Except*
 3-6,1-14,8-10: 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.): 4-5.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 15, 16

REACTIONS.

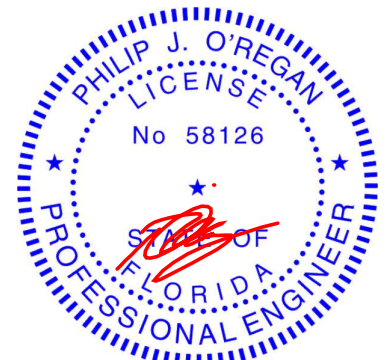
(size) 14=0-3-0 (req. 0-3-15), 10=0-3-0
 Max Horz 14=-292(LC 4)
 Max Uplift 14=-1437(LC 8), 10=-1233(LC 9)
 Max Grav 14=10056(LC 34), 10=7089(LC 34)

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

TOP CHORD 1-2=-8744/1330, 2-3=-6464/1088, 3-4=-3565/614, 4-5=-2336/449, 5-6=-3242/554,
 6-7=-6494/1053, 7-8=-8268/1317, 1-14=-8404/1289, 8-10=-7873/1223
 BOT CHORD 13-14=-406/899, 11-13=-965/6602, 10-11=-292/149
 WEBS 2-13=-393/2197, 3-15=-3980/822, 15-16=-3805/797, 6-16=-4392/798, 7-11=-566/2559,
 1-13=-1021/6359, 8-11=-1040/7269, 4-15=-338/2398, 5-16=-432/2514, 4-16=-719/276

NOTES-

- 1) N/A
- 2) 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.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 3 rows staggered at 0-4-0 oc.
- 3) 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.
- 4) Unbalanced roof live loads have been considered for this design.
- 5) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=22ft; 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
- 6) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 7) Provide adequate drainage to prevent water ponding.
- 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) Ceiling dead load (5.0 psf) on member(s). 2-3, 6-7, 3-15, 15-16, 6-16; Wall dead load (5.0psf) on member(s).2-13, 7-11
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- 12) WARNING: Required bearing size at joint(s) 14 greater than input bearing size.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=1437, 10=1233.
- 14) 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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 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

April 11, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKEY RES.	T27386235
3112322	T02	Attic Girder	1	3	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:01:56 2022 Page 2
ID:WAwkW2WKQ8asokypuHB6CYzSsON-sjy?qGI?3mNSiGMSLVL7kfHhKgxBuKNPc0m2JzSpOP

NOTES-

- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1119 lb down and 656 lb up at 17-9-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 4-17=-54, 4-5=-54, 5-6=-54, 6-7=-64, 7-8=-54, 8-9=-54, 13-14=-270(F=-250), 11-13=-290(F=-250), 10-11=-20, 3-6=-10

Drag: 2-13=-10, 7-11=-10

Concentrated Loads (lb)

Vert: 11=-1119(B) 19=-1900(F)

Trapezoidal Loads (plf)

Vert: 1=-186-to-2=-114, 2=-124-to-3=-118, 3=-108-to-17=-104

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

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

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



6904 Parke East Blvd.
Tampa, FL 36610

Job 3112322	Truss T03	Truss Type ATTIC GIRDER	Qty 1	Ply 3	IC CONST. - WILKEY RES. Job Reference (optional)	T27386236
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Builders FirstSource (Lake City, FL),

Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:01:57 2022 Page 1

ID:WAWkW2WKQ8asokypuHB6CYzSsON-KvWN1cJdq3VJJQx2vCsMhtqs44HQndZqgVbrkzSpOO

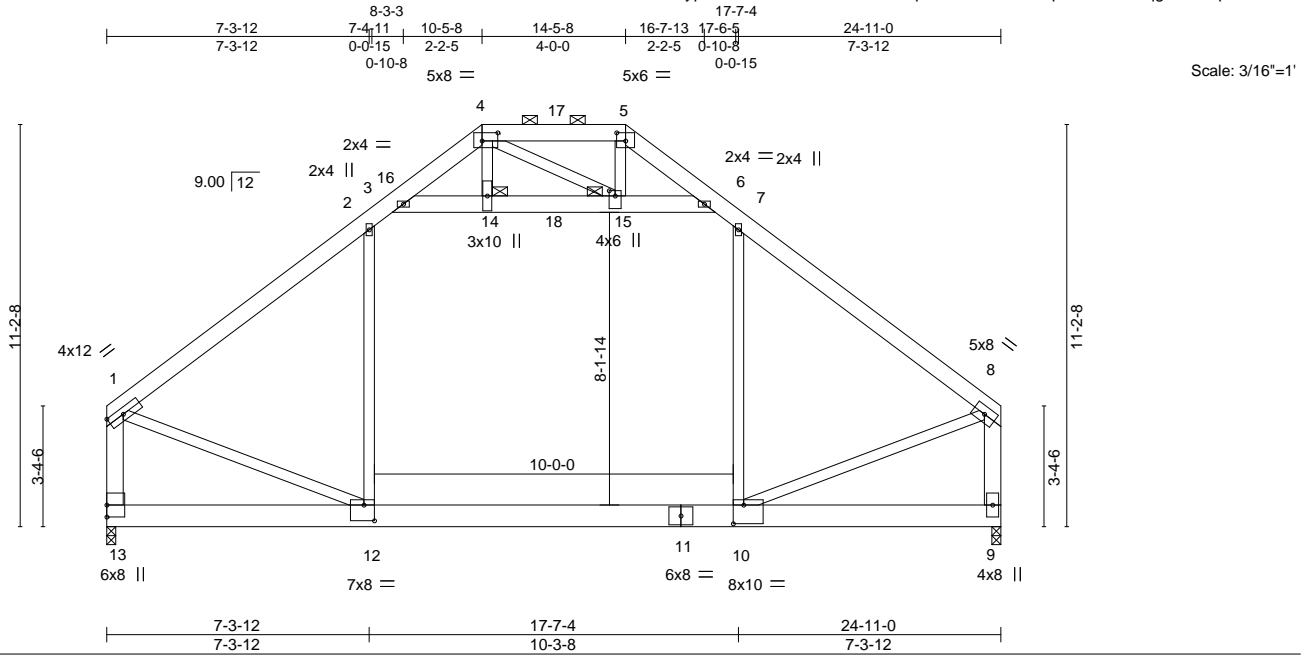


Plate Offsets (X,Y)-- [4:0-5-4,0-2-12], [5:0-3-0,0-2-12], [10:0-3-8,0-6-4], [12:0-3-8,0-5-4], [15:0-1-12,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.71	Vert(LL) -0.23	10-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.55	Vert(CT) -0.31	10-12	>941	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.92	Horz(CT) 0.01	9	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS	Attic -0.17	10-12	718	360		
							Weight: 709 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x8 SP 2400F 2.0E
 WEBS 2x4 SP No.3 *Except*
 3-6,1-13,8-9: 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.): 4-5.
 BOT CHORD Rigid ceiling directly applied or 6'-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 14, 15

REACTIONS.

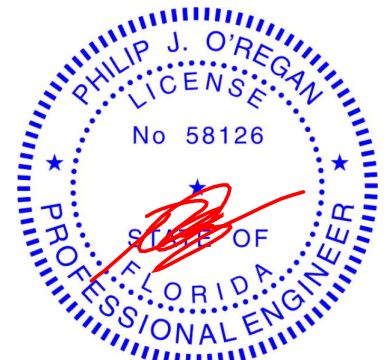
(size) 13=0-3-0 (req. 0-3-15), 9=0-3-0
 Max Horz 13=-248(LC 6)
 Max Uplift 13=-1430(LC 8), 9=-1188(LC 9)
 Max Grav 13=10058(LC 34), 9=7021(LC 34)

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

TOP CHORD 1-2=-8749/1328, 2-3=-6467/1085, 3-4=-3566/618, 4-5=-2329/441, 5-6=-3242/554,
 6-7=-6498/1048, 7-8=-8268/1299, 1-13=-8409/1286, 8-9=-7802/1213
 BOT CHORD 12-13=-375/864, 10-12=-968/6573, 9-10=-256/137
 WEBS 2-12=-390/2201, 3-14=-3988/824, 14-15=-3813/799, 6-15=-4401/795, 7-10=-566/2554,
 1-12=-1010/6364, 8-10=-1025/7250, 4-14=-337/2398, 5-15=-429/2511, 4-15=-713/269

NOTES-

- 1) N/A
- 2) 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.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 3 rows staggered at 0-4-0 oc.
- 3) 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.
- 4) Unbalanced roof live loads have been considered for this design.
- 5) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 6) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 7) Provide adequate drainage to prevent water ponding.
- 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) Ceiling dead load (5.0 psf) on member(s). 2-3, 6-7, 3-14, 14-15, 6-15; Wall dead load (5.0psf) on member(s). 2-12, 7-10
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
- 12) WARNING: Required bearing size at joint(s) 13 greater than input bearing size.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=1430, 9=1188.
- 14) 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:

April 11, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKEY RES.	T27386236
3112322	T03	ATTIC GIRDER	1	3	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:01:58 2022 Page 2
ID:WAwkW2WKQ8asokypuHB6CYzSsON-o54IFyKFbNdAxZVESwNbnq4M1qUdfMEti3KF9NAzSpON

NOTES-

- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1111 lb down and 647 lb up at 17-9-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 4-16=-54, 4-5=-54, 5-6=-54, 6-7=-64, 7-8=-54, 12-13=-270(F=-250), 10-12=-290(F=-250), 9-10=-20, 3-6=-10

Drag: 2-12=-10, 7-10=-10

Concentrated Loads (lb)

Vert: 10=-1111(F) 18=-1900(F)

Trapezoidal Loads (plf)

Vert: 1=-186-to-2=-114, 2=-124-to-3=-118, 3=-108-to-16=-104

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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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKEY RES.	T27386237
3112322	T04	Attic	1	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:01:58 2022 Page 1

ID:WAwkW2WKQ8asokypuHB6CYzSsON-o54IFyKfBndAxZVESwNbnq4M8QUgAML9i3KF9NAzSpON

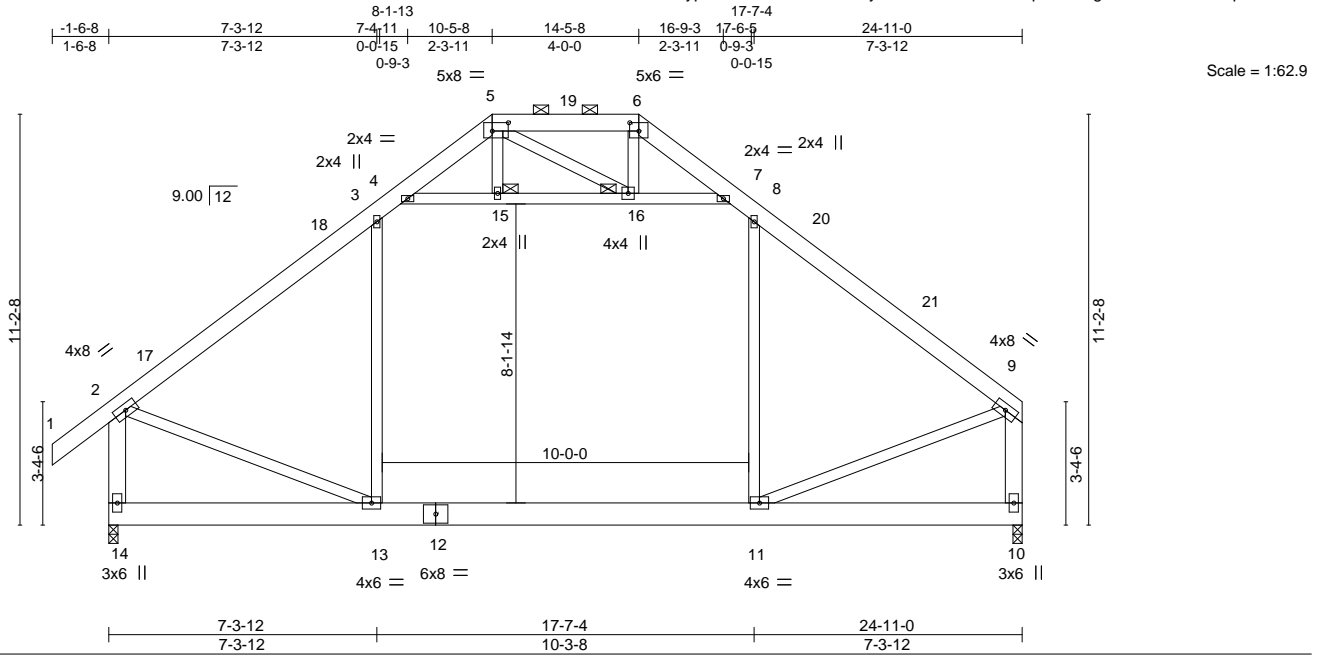


Plate Offsets (X,Y)-- [5:0-5-4,0-2-12], [6:0-3-0,0-2-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.29	Vert(LL) -0.12	11-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.33	Vert(CT) -0.19	11-13	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.45	Horz(CT) 0.01	10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Attic -0.10	11-13	1239	360	Weight: 234 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x8 SP 2400F 2.0E
 WEBS 2x4 SP No.3 *Except*
 2-14,9-10: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 15, 16

REACTIONS.

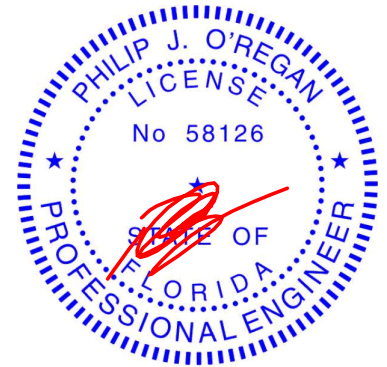
(size) 14=0-3-0, 10=0-3-0
 Max Horz 14=-258(LC 10)
 Max Uplift 14=-40(LC 12), 10=-6(LC 13)
 Max Grav 14=1409(LC 2), 10=1326(LC 2)

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

TOP CHORD 2-3=-1389/36, 3-4=-976/98, 4-5=-335/78, 6-7=-322/75, 7-8=-978/94, 8-9=-1392/24,
 2-14=-1424/47, 9-10=-1342/16
 BOT CHORD 13-14=-266/293, 11-13=0/1058
 WEBS 3-13=-42/436, 4-15=-945/111, 15-16=-941/112, 7-16=-963/105, 8-11=-60/426,
 2-13=0/1139, 9-11=0/1126

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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 10-5-8, Exterior(2E) 10-5-8 to 14-5-8, Exterior(2R) 14-5-8 to 18-8-7, Interior(1) 18-8-7 to 24-8-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-15, 15-16, 7-16; Wall dead load (5.0psf) on member(s).3-13, 8-11
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied into room. 11-13
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 10.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



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 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

April 11,2022

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

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



6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKEY RES.	T27386238
3112322	T05	Attic Girder	1	2	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:02:00 2022 Page 2

ID:WAwkW2WKQ8asokypuHB6CYzSsON-IUBVfeLW7_tuAtfdaLP3vVSNyIHrq96?XekFS3zSpOL

NOTES-

- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 253 lb down and 192 lb up at 8-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 17) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54, 2-3=-54, 3-4=-64, 4-5=-195(B=-141), 5-6=-195(B=-141), 6-7=-195(B=-141), 7-8=-205(B=-141), 8-9=-195(B=-141), 13-14=-20, 13-19=-40, 11-19=-165(B=-125), 10-11=-145(B=-125), 4-7=-10

Drag: 3-13=-10, 8-11=-10

Concentrated Loads (lb)

Vert: 18=-247(B)

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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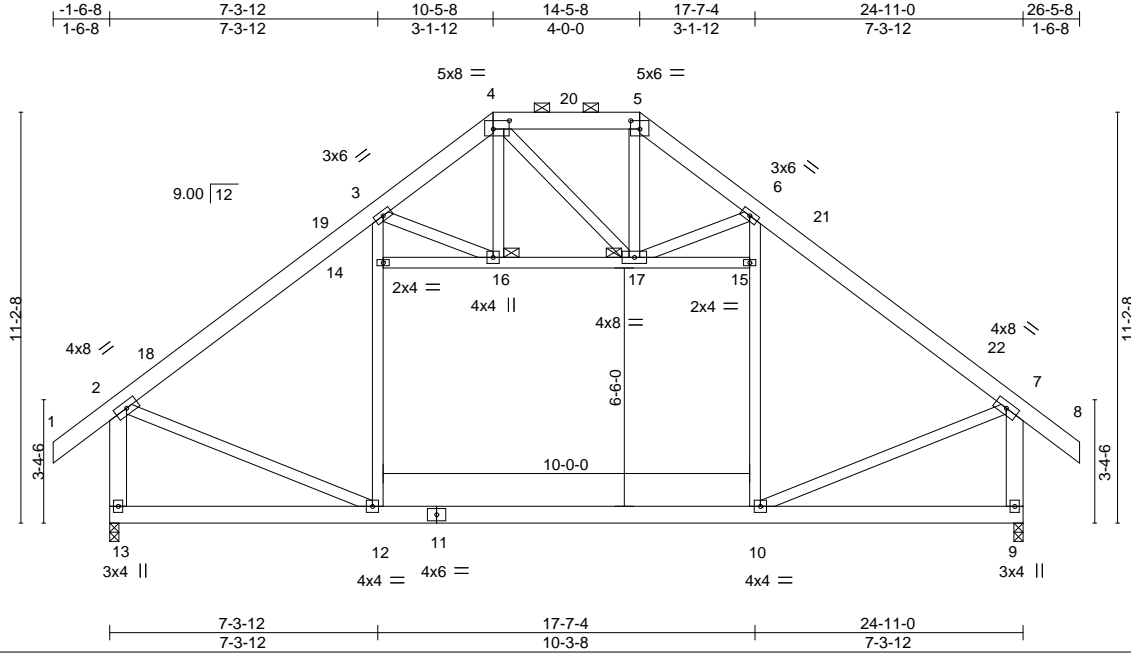
6904 Parke East Blvd.
Tampa, FL 36610

Job 3112322	Truss T06	Truss Type ATTIC	Qty 9	Ply 1	IC CONST. - WILKEY RES. Job Reference (optional)	T27386239
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:02:01 2022 Page 1

ID:WAwkW2WKQ8asokypuHB6CYzSsON-Dglut_M8tl?lo1Ep82wlRj_gVhfPZhh9lITp_VzSpOK



Scale = 1:62.9

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.23	Vert(LL) -0.24	10-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.48	Vert(CT) -0.35	10-12	>842	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.46	Horz(CT) 0.01	9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Attic -0.22	10-12	568	360		
							Weight: 239 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP M 26
 WEBS 2x4 SP No.3 *Except*
 2-13,7-9: 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.): 4-5.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 16, 17

REACTIONS.

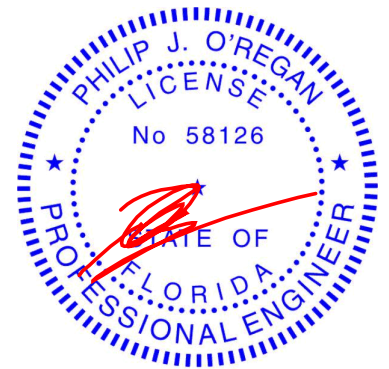
(size) 13=0-3-0, 9=0-3-0
 Max Horz 13=-305(LC 10)
 Max Uplift 13=-58(LC 12), 9=-58(LC 13)
 Max Grav 13=1392(LC 2), 9=1392(LC 2)

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

TOP CHORD 2-3=-1358/41, 3-4=-696/93, 4-5=-511/99, 5-6=-695/95, 6-7=-1358/41, 2-13=-1416/65, 7-9=-1416/76
 BOT CHORD 12-13=-319/333, 10-12=0/1084
 WEBS 12-14=-5/493, 3-14=0/505, 16-17=-546/82, 10-15=-5/493, 6-15=0/505, 2-12=0/1171, 7-10=0/1172, 4-16=-7/280, 5-17=-44/318, 3-16=-595/76, 6-17=-596/76

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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 10-5-8, Exterior(2E) 10-5-8 to 14-5-8, Exterior(2R) 14-5-8 to 18-8-7, Interior(1) 18-8-7 to 26-5-8 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 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). 14-16, 16-17, 15-17; Wall dead load (5.0psf) on member(s).12-14, 10-15
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



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 Date:

April 11,2022

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

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



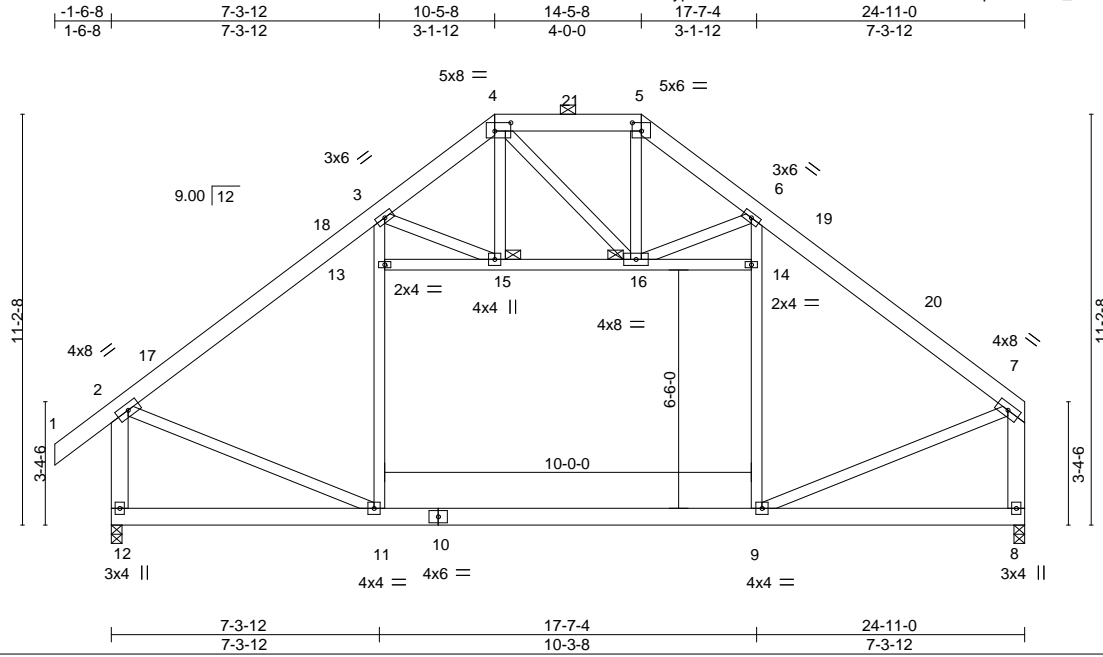
6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKEY RES.	T27386241
3112322	T07	PIGGYBACK ATTIC	3	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:02:04 2022 Page 1

ID:WAwkW2WKQ8asokypuHB6CYzSsON-dFR0V?O0ADNKfUzOpAU?3LcA_vh6m2QbRGIbqzSpOH



Scale = 1:62.9

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.28	Vert(LL) -0.24	9-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.48	Vert(CT) -0.35	9-11	>842	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.46	Horz(CT) 0.01	8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Attic -0.22	9-11	568	360	Weight: 234 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP M 26
 WEBS 2x4 SP No.3 *Except*
 2-12,7-8: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 15, 16

REACTIONS.

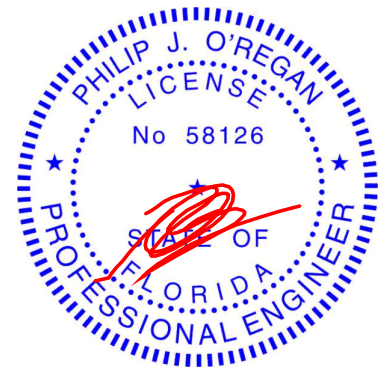
(size) 12=0-3-8, 8=0-3-8
 Max Horz 12=-259(LC 10)
 Max Uplift 12=-54(LC 12), 8=-20(LC 13)
 Max Grav 12=1395(LC 2), 8=1312(LC 2)

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

TOP CHORD 2-3=-1362/42, 3-4=-696/92, 5-6=-697/95, 6-7=-1365/29, 4-5=-510/95, 2-12=-1421/55, 7-8=-1333/18
 BOT CHORD 11-12=-276/286, 9-11=0/1057
 WEBS 11-13=-5/494, 3-13=0/506, 9-14=-18/490, 6-14=0/503, 15-16=-550/86, 2-11=0/1173, 4-15=-6/282, 5-16=-47/320, 7-9=0/1152, 3-15=-600/73, 6-16=-607/85

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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 10-5-8, Exterior(2E) 10-5-8 to 14-5-8, Exterior(2R) 14-5-8 to 18-8-7, Interior(1) 18-8-7 to 24-8-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 13-15, 15-16, 14-16; Wall dead load (5.0psf) on member(s).11-13, 9-14
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-11
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



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April 11, 2022

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



6904 Parke East Blvd.
 Tampa, FL 33610

Job 3112322	Truss T08	Truss Type Attic Girder	Qty 1	Ply 2	IC CONST. - WILKEY RES. Job Reference (optional)	T27386242
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:02:05 2022 Page 1

ID:WAwkW2WkQ8asokypuHB6CYzSsON-5R?OJLPfxXBHeYbNu?EcZ9HeJw_VOpkgwR07GzSpOG

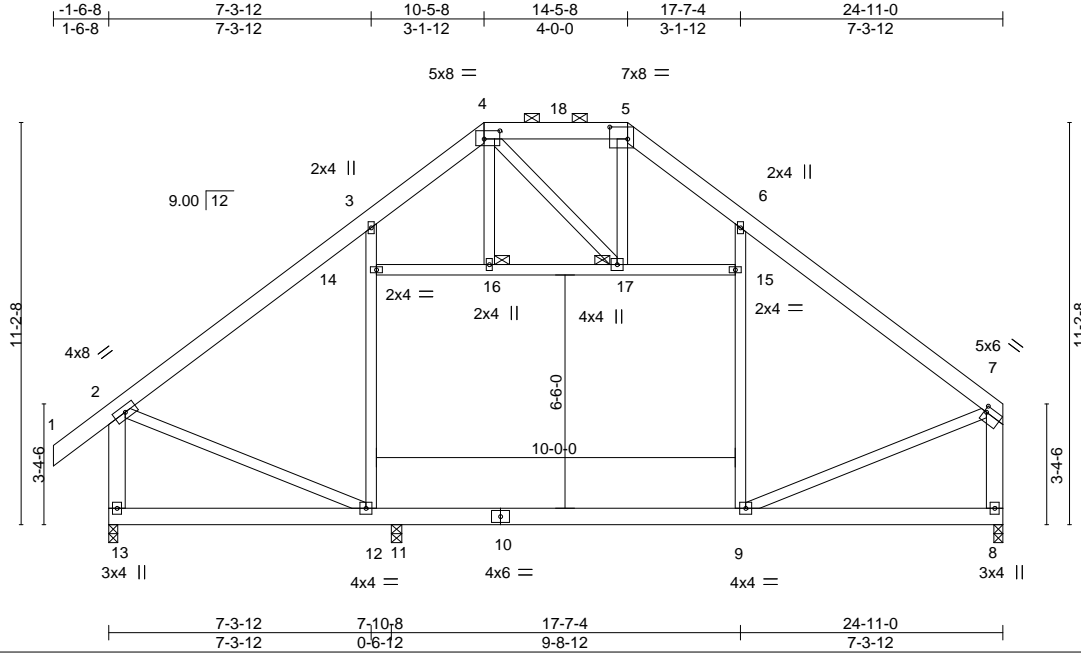


Plate Offsets (X,Y)-- [4:0-5-4,0-2-12], [5:0-6-0,0-4-0], [7:0-0-12,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.54	Vert(LL) -0.29	9-11	>693	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.96	Vert(CT) -0.47	9-11	>424	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.90	Horz(CT) 0.01	8	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS	Attic 0.04	11-12	425	360		
							Weight: 450 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
5-7: 2x6 SP M 26
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
3-12,6-9: 2x4 SP No.2, 2-13,7-8: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.
JOINTS 1 Brace at Jt(s): 16, 17

REACTIONS.

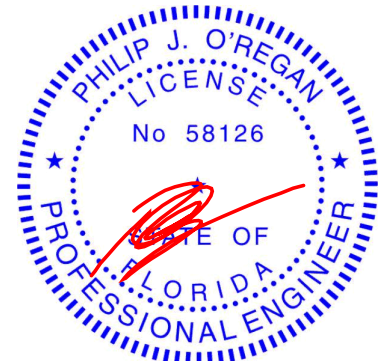
(size) 13=0-3-0, 8=0-3-0, 11=0-3-8
Max Horz 13=-488(LC 4)
Max Uplift 13=-223(LC 9), 8=-67(LC 9), 11=-246(LC 12)
Max Grav 13=2893(LC 17), 8=4005(LC 17), 11=417(LC 4)

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

TOP CHORD 2-3=-3078/278, 3-4=-2496/300, 4-5=-2313/394, 5-6=-2620/314, 6-7=-3611/138,
2-13=-3031/257, 7-8=-3858/39
BOT CHORD 12-13=-411/484, 11-12=0/2208, 9-11=0/2208, 8-9=-102/436
WEBS 12-14=-365/222, 3-14=-309/224, 9-15=-394/108, 6-15=-392/136, 14-16=-554/143,
16-17=-552/143, 2-12=-257/2637, 7-9=0/1958, 4-17=-116/516

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.
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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Ceiling dead load (5.0 psf) on member(s). 14-16, 16-17, 15-17; Wall dead load (5.0psf) on member(s).12-14, 9-15
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-12, 9-11
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 13=223, 11=246.
- Girder carries tie-in span(s): 8-0-0 from 7-3-12 to 24-11-0
- 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:

April 11, 2022

Continued on page 2

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ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKEY RES.	T27386242
3112322	T08	Attic Girder	1	2	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:02:05 2022 Page 2
 ID:WAwkW2WKQ8asokypuHB6CYzSsON-5R?OjLPfxXVBHeYbNu?EcZ9HeJw_VOpkgwR07GzSpOG

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54, 2-3=-54, 3-4=-195(F=-141), 4-5=-195(F=-141), 5-7=-195(F=-141), 12-13=-20, 9-12=-40, 8-9=-20, 14-15=-10

Drag: 12-14=-10, 9-15=-10

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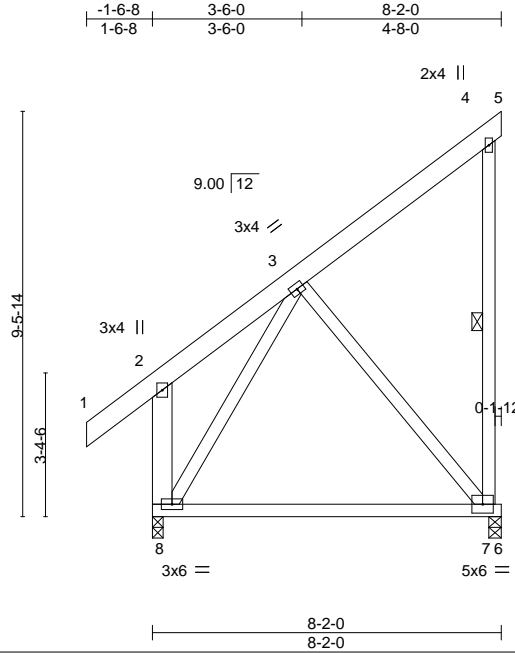
Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKEY RES.	T27386243
3112322	T09	Monopitch	3	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL),

Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:02:06 2022 Page 1

ID:WAwkW2WKQ8asokypuHB6CYzSsON-ZeYnwhQHiqd2uo7nwbWT8mhTriL8E0SuvaBafizSpOF



Scale = 1:53.9

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0 Plate Grip DOL 1.25	TC 0.39	Vert(LL) -0.12	7-8	>780	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.51	Vert(CT) -0.23	7-8	>391	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.24	Horz(CT) -0.00	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 79 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-7

REACTIONS.

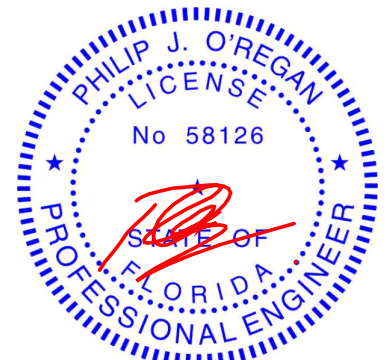
(size) 7=0-3-8, 8=0-3-0
 Max Horz 8=212(LC 12)
 Max Uplift 7=-252(LC 12)
 Max Grav 7=341(LC 19), 8=389(LC 1)

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

WEBS 3-7=-256/344, 3-8=-287/164

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 8-2-0 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=252.



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

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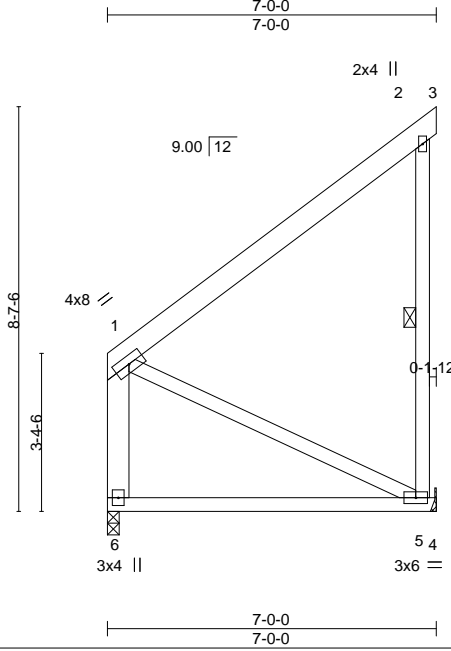
6904 Parke East Blvd.
 Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKEY RES.	T27386244
3112322	T10	Monopitch	4	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:02:06 2022 Page 1

ID:WAwkW2WKQ8asokypuHB6CYzSsON-ZeYnwhQHqId2uo7nwbWT8mhVkiOUE05uvaBafizSpOF



Scale = 1:49.0

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	Vert(LL)	-0.06	5-6	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.36	Vert(CT)	-0.12	5-6	>637		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.20	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS					Weight: 60 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 1-6: 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.
 WEBS 1 Row at midpt 2-5

REACTIONS.

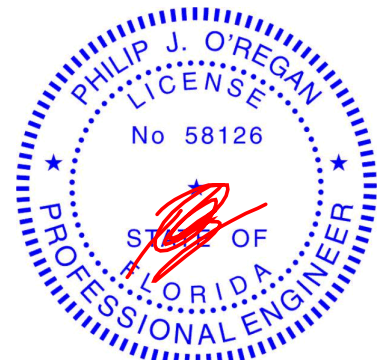
(size) 6=0-3-0, 5=Mechanical
 Max Horz 6=178(LC 12)
 Max Uplift 5=-228(LC 12)
 Max Grav 6=240(LC 1), 5=291(LC 19)

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

BOT CHORD 5-6=-292/195
 WEBS 1-5=-206/319

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 7-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=228.



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 Date:

April 11,2022

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

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

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

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



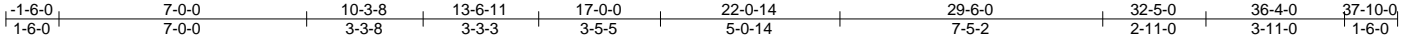
6904 Parke East Blvd.
 Tampa, FL 36610

Job 3112322	Truss T11	Truss Type Roof Special	Qty 5	Ply 1	IC CONST. - WILKEY RES. Job Reference (optional)	T27386245
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:02:07 2022 Page 1

ID:WAwkW2WkQ8asokypuHB6CYzSsON-1q6971RvT8lVWyizUJ1ih_Ebj6dAzNq18Dw7B9zSpOE



Scale = 1:65.1

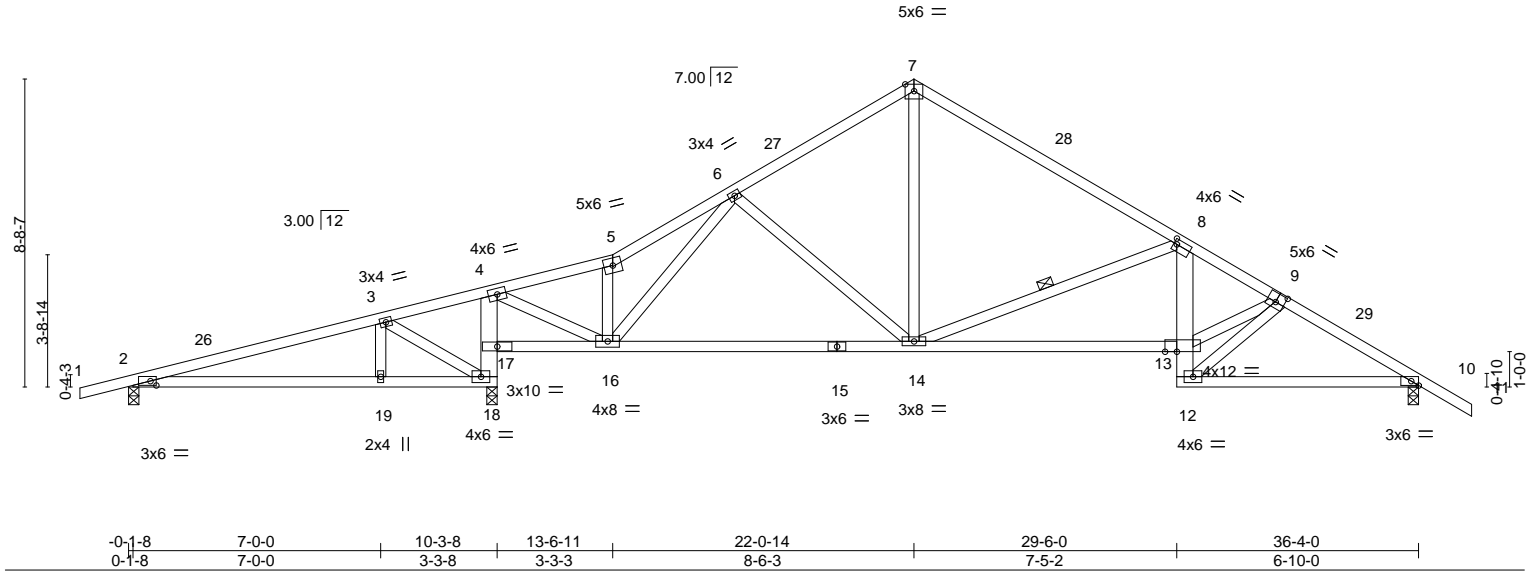


Plate Offsets (X,Y)-- [2:0-2-0,0-1-7], [8:0-1-0,0-1-12], [9:0-3-0,0-3-0], [10:0-2-8,Edge], [13:0-4-0,0-0-0]

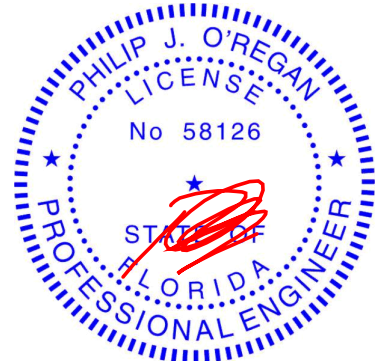
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.64	Vert(LL) -0.12	14-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.78	Vert(CT) -0.27	14-16	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.61	Horz(CT) 0.06	10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 197 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-7 oc purlins.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 8-14

REACTIONS. (size) 2=0-3-8, 10=0-3-8, 18=0-3-8
 Max Horz 2=211(LC 11)
 Max Uplift 2=183(LC 8), 10=253(LC 13), 18=357(LC 12)
 Max Grav 2=365(LC 23), 10=1010(LC 1), 18=1500(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=263/238, 3-4=135/491, 4-5=827/261, 5-6=958/353, 6-7=994/366,
 7-8=1043/348, 8-9=1684/474, 9-10=1514/431
 BOT CHORD 17-18=-1168/307, 4-17=-1143/300, 16-17=-681/225, 14-16=-169/921, 13-14=-379/1645,
 12-13=-141/828, 8-13=-35/417, 10-12=-294/1263
 WEBS 3-19=0/273, 3-18=-707/219, 4-16=-367/1608, 5-16=-412/180, 7-14=-171/615,
 8-14=-910/366, 9-13=-189/1140, 9-12=-1136/233

- 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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-1-10, Interior(1) 2-1-10 to 22-0-14, Exterior(2R) 22-0-14 to 25-8-7, Interior(1) 25-8-7 to 37-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=183, 10=253, 18=357.



Philip J. O'Regan PE No.58126
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

April 11, 2022

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

6904 Parke East Blvd.
 Tampa, FL 33610

Job 3112322	Truss T12	Truss Type Piggyback Base	Qty 6	Ply 1	IC CONST. - WILKEY RES.	T27386246
					Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055, Mitek

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Apr 11 10:29:42 2022 Page 1
ID:WAwkW2WkQ8asokypuHB6CYzSsON-vQobeTiKkNwmtql1An8GHZsNL9JErddcePwF5zRpIN

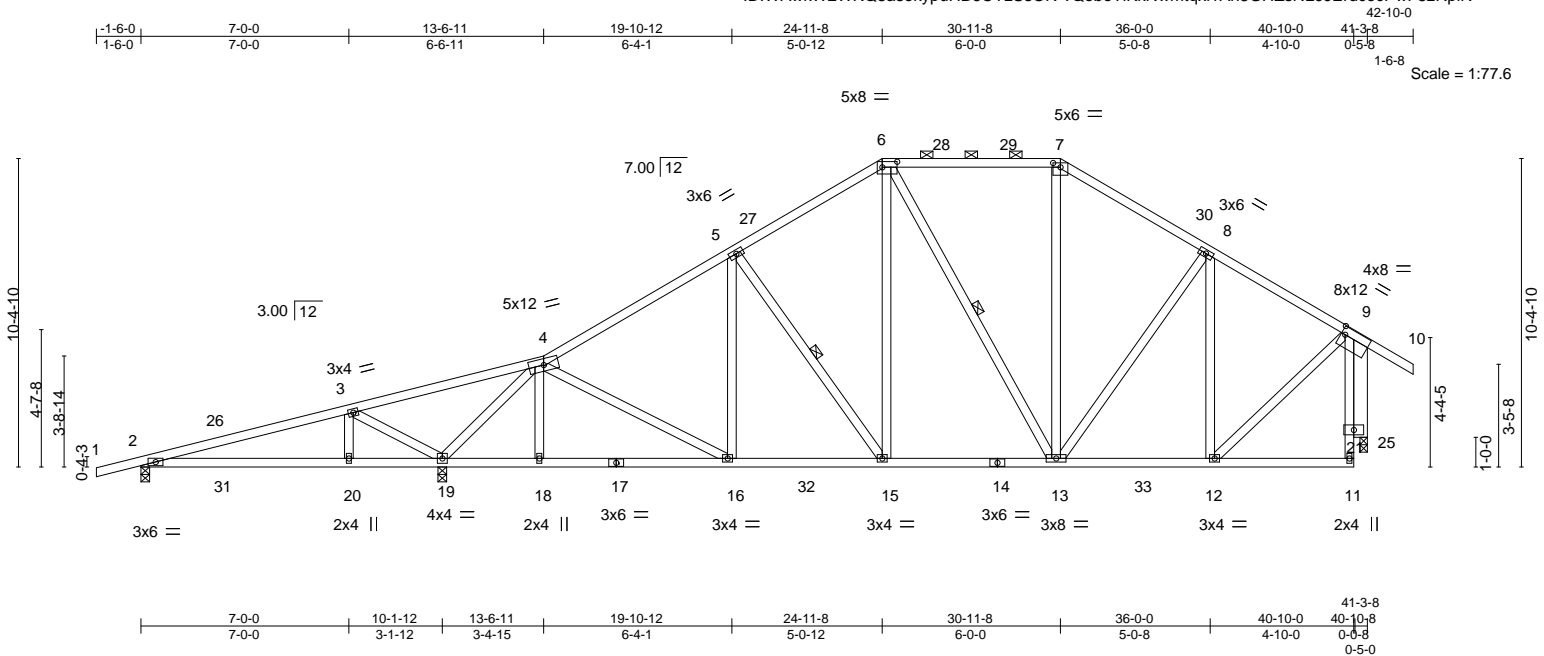


Plate Offsets (X,Y)-- [6:0-6-0,0-2-4], [7:0-3-0,0-1-12], [9:0-1-9,0-3-3]

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	20-24	>917	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.45	Vert(CT)	-0.14	20-24	>884		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.91	Horz(CT)	0.05	25	n/a		
BCDL 10.0	Code	FBC2020/TP12014	Matrix-MS					Weight: 277 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-7-4 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-12 max.): 6-7.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS 2x4 SP No.3	6-0-0 oc bracing: 2-20,19-20.
OTHERS 2x6 SP No.2	WEBS 1 Row at midpt 5-15, 6-13

REACTIONS. (lb/size) 2=297/0-3-8, 19=1734/0-3-8, 25=1177/0-3-0
 Max Horz 2=233(LC 9)
 Max Uplift 2=233(LC 8), 19=429(LC 12), 25=233(LC 13)
 Max Grav 2=304(LC 23), 19=1921(LC 2), 25=1295(LC 2)

TOP CHORD UNDER PIGGYBACKS TO BE Laterally BRACED BY PURLINS AT 2-0-0 OC. MAX. (TYPICAL)

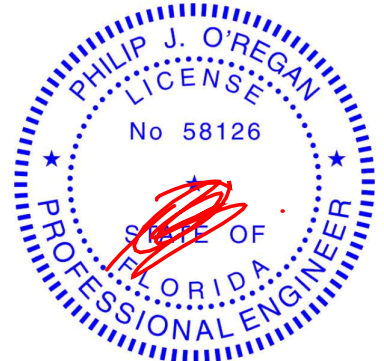
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-26=87/283, 3-26=76/298, 3-4=420/802, 4-5=1313/333, 5-27=1131/380, 6-27=1110/399, 6-28=847/375, 28-29=847/375, 7-29=847/375, 7-30=978/383, 8-30=1036/364, 8-9=934/298

BOT CHORD 2-31=300/48, 20-31=300/48, 19-20=300/48, 18-19=168/805, 17-18=170/797, 16-17=170/797, 16-32=209/1162, 15-32=209/1162, 14-15=138/953, 13-14=138/953, 13-33=145/763, 12-33=145/763

WEBS 3-20=330/254, 3-19=826/787, 4-19=2057/621, 4-16=175/442, 5-15=367/175, 6-15=109/529, 7-13=46/297, 9-12=170/843, 8-12=408/150, 9-25=1306/400

- 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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-7-9, Interior(1) 2-7-9 to 24-11-8, Exterior(2R) 24-11-8 to 29-1-1, Interior(1) 29-1-1 to 30-11-8, Exterior(2R) 30-11-8 to 35-1-1, Interior(1) 35-1-1 to 42-10-0 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.
 - Bearing at joint(s) 25 considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 2, 429 lb uplift at joint 19 and 233 lb uplift at joint 25.
 - 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:

April 11, 2022

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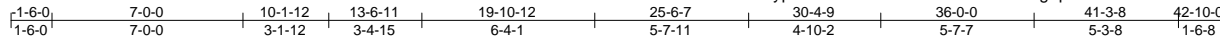
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

6904 Parke East Blvd.
 Tampa, FL 33610

Job 3112322	Truss T12G	Truss Type GABLE	Qty 1	Ply 1	IC CONST. - WILKEY RES.	T27386247
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Builders FirstSource, Lake City, FL 32055, Mitek

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Apr 11 10:31:12 2022 Page 1
ID:WAwwW2WKQ8asokypuHB6CYzSsON-GkEcXeonY1G?gfg2J4OFvFHFwDvtKZCsLdChPuzRpgz



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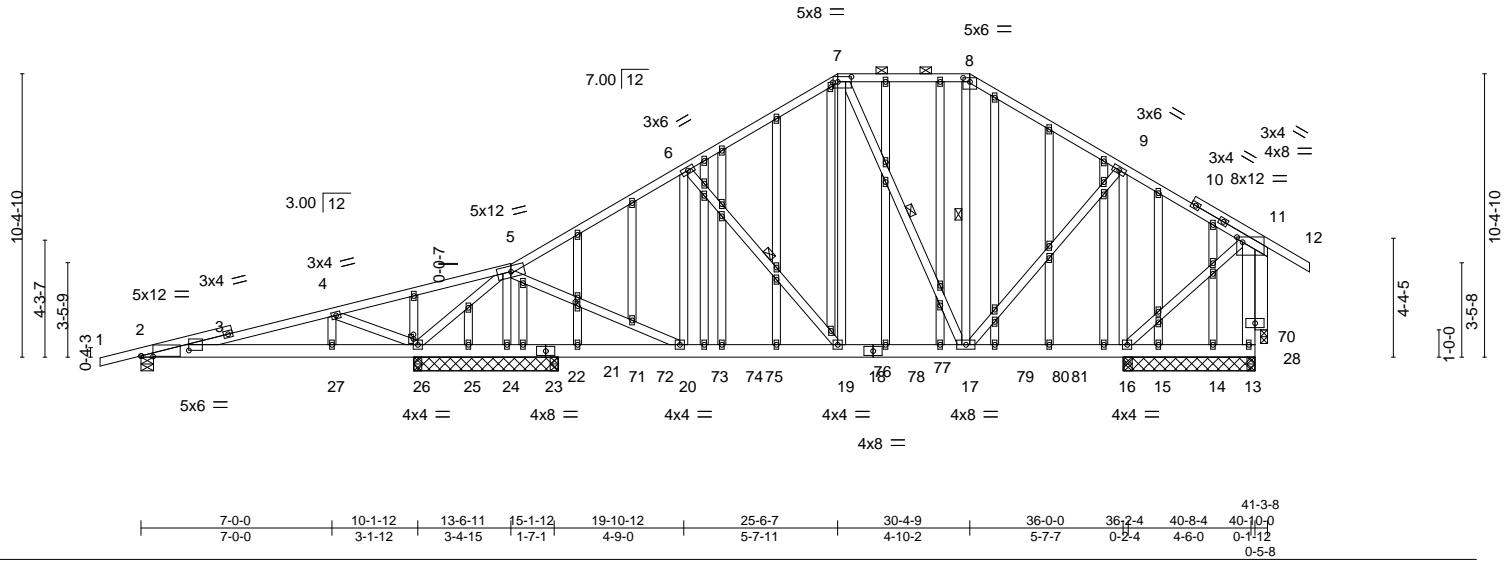


Plate Offsets (X,Y)-- [2:0-5-4,0-0-3], [2:1-9-0,0-2-7], [7:0-6-0,0-2-4], [8:0-3-0,0-1-12], [11:0-2-8,0-2-4], [26:0-2-0,0-0-1], [52:0-2-0,0-0-12], [62:0-1-13,0-1-0]

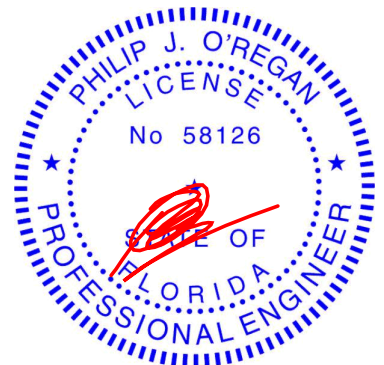
LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.29	Vert(LL) -0.04 19-20 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.89	Vert(CT) -0.07 19-20 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) -0.01 70 n/a n/a		
	Code FBC2020/TPI2014			Weight: 460 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 11-13: 2x6 SP No.2	WEBS 1 Row at midpt 6-19, 7-17, 8-17
OTHERS 2x4 SP No.3 *Except* 11-28: 2x6 SP No.2	

REACTIONS. All bearings 4-10-0 except (jt=length) 2=0-5-8, 24=5-3-8, 25=5-3-8, 23=5-3-8, 26=0-3-8, 26=0-3-8, 21=0-3-8, 70=0-3-0.
 (lb) - Max Horz 2=298(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 13, 14, 25, 21 except 2=-221(LC 4), 24=-411(LC 8), 16=-409(LC 9), 15=-148(LC 2), 23=-267(LC 2), 26=-363(LC 4)
 Max Grav All reactions 250 lb or less at joint(s) 14, 15, 25, 23 except 2=356(LC 19), 13=306(LC 20), 13=278(LC 1), 24=1142(LC 2), 16=1416(LC 2), 16=1296(LC 1), 26=722(LC 21), 26=683(LC 1), 21=327(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-252/189, 4-5=-269/627, 5-6=-862/239, 6-7=-771/277, 7-8=-467/221, 8-9=-608/231, 13-28=-274/46, 11-28=-283/52
 BOT CHORD 25-26=-278/199, 24-25=-278/199, 20-73=-236/691, 73-74=-236/691, 74-75=-236/691, 75-76=-236/691, 19-76=-236/691, 19-77=-207/609, 18-77=-207/609, 18-78=-207/609, 17-78=-207/609
 WEBS 4-26=-862/455, 5-26=-411/220, 5-24=-976/383, 5-20=-259/1022, 7-19=-170/450, 7-17=-362/140, 9-17=-177/699, 9-16=-1046/327

- 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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical right exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable 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, with BCDL = 10.0psf.



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 Date:

April 11, 2022

Continued on page 2

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6904 Parke East Blvd.
 Tampa, FL 33610

Job 3112322	Truss T12G	Truss Type GABLE	Qty 1	Ply 1	IC CONST. - WILKEY RES. Job Reference (optional)	T27386247
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Builders FirstSource, Lake City, FL 32055, Mitek

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Apr 11 10:31:12 2022 Page 2
ID:WAwkW2WKQ8asokypuHB6CYzSsON-GkEcXEonY1G?gfg2J4OFvFHFVdvtKZCsLdChPuzRpgz

NOTES-

- 10) Bearing at joint(s) 70 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 14, 25, 21 except (jt=lb) 2=221, 24=411, 16=409, 15=148, 23=267, 26=363.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 45 lb down and 36 lb up at 17-0-12, 45 lb down and 36 lb up at 19-0-12, 45 lb down and 36 lb up at 21-0-12, 45 lb down and 36 lb up at 23-0-12, 45 lb down and 36 lb up at 25-0-12, 45 lb down and 36 lb up at 26-3-4, 45 lb down and 36 lb up at 28-3-4, 45 lb down and 36 lb up at 30-3-4, and 45 lb down and 36 lb up at 32-3-4, and 45 lb down and 36 lb up at 34-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-54, 5-7=-54, 7-8=-54, 8-11=-54, 11-12=-54, 13-67=-20
Concentrated Loads (lb)
Vert: 17=-45(B) 71=-45(B) 72=-45(B) 73=-45(B) 75=-45(B) 76=-45(B) 77=-45(B) 78=-45(B) 79=-45(B) 81=-45(B)

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6904 Parke East Blvd.
Tampa, FL 36610

Job 3112322	Truss T13D	Truss Type PIGGYBACK BASE	Qty 4	Ply 1	IC CONST. - WILKEY RES.	T27386249
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:02:18 2022 Page 1

ID:WAwkW2WkQ8asokypuHB6CYzSsON-DxHJRozotW8LKe14d7kHdlBRxYOv2Gpffr5C40zSpO3



Scale = 1:75.4

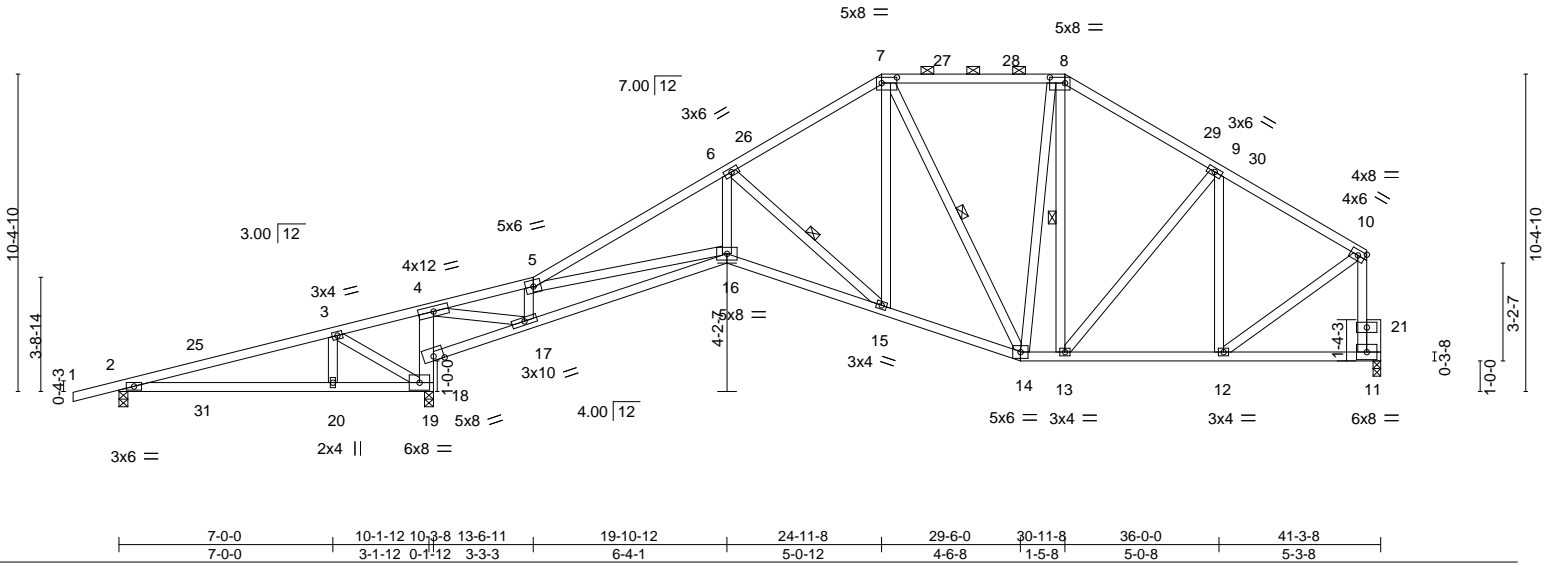


Plate Offsets (X,Y)--	[7:0-6-0,0-2-4], [8:0-6-0,0-2-4]
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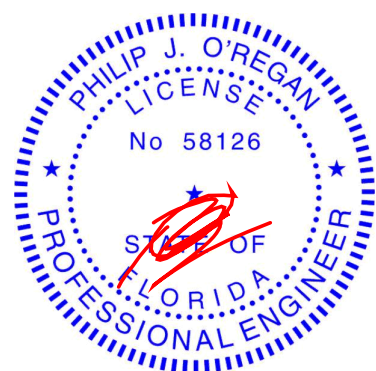
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.83	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.80	Vert(LL) 0.13 20-24 >911 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.92	Vert(CT) -0.30 16-17 >999 180		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS	Horz(CT) 0.15 11 n/a n/a		
				Weight: 261 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-7-8 max.); 7-8.
BOT CHORD 2x4 SP No.2 *Except* 4-19: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 4-0-1 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-15, 7-14, 8-13
OTHERS 2x6 SP No.2	

REACTIONS. (size) 2=0-3-8, 19=0-3-8, 11=0-3-0
 Max Horz 2=281(LC 9)
 Max Uplift 2=-284(LC 8), 19=-460(LC 12), 11=-185(LC 13)
 Max Grav 2=207(LC 23), 19=1864(LC 1), 11=1042(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-191/722, 3-4=-520/1098, 4-5=-861/167, 5-6=-2455/743, 6-7=-1215/447,
 7-8=-784/396, 8-9=-958/401, 9-10=-898/319, 10-11=-1002/322
 BOT CHORD 2-20=-583/54, 19-20=-583/54, 18-19=-1541/479, 4-18=-974/292, 17-18=-1661/577,
 16-17=-253/996, 15-16=-712/2181, 14-15=-302/1066, 13-14=-214/765, 12-13=-236/727
 WEBS 3-20=-351/294, 3-19=-732/768, 4-17=-733/2404, 5-17=-1115/418, 5-16=-446/1133,
 6-16=-319/1238, 6-15=-1439/524, 7-15=-189/716, 7-14=-512/151, 9-12=-352/167,
 10-12=-227/793

- 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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-7-9, Interior(1) 2-7-9 to 24-11-8, Exterior(2R) 24-11-8 to 29-1-1, Interior(1) 29-1-1 to 30-11-8, Exterior(2R) 30-11-8 to 35-1-1, Interior(1) 35-1-1 to 40-8-4 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=284, 19=460, 11=185.
 - 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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April 11, 2022

Job 3112322	Truss T14	Truss Type Monopitch	Qty 15	Ply 1	IC CONST. - WILKEY RES. Job Reference (optional)	T27386251
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:02:21 2022 Page 1

ID:WAwkW2WKQ8asokypuHB6CYzSsON-dWyS4pbhARWvC6mfJFH_Fxp?XIRNFIM5MPJthLzSpO0



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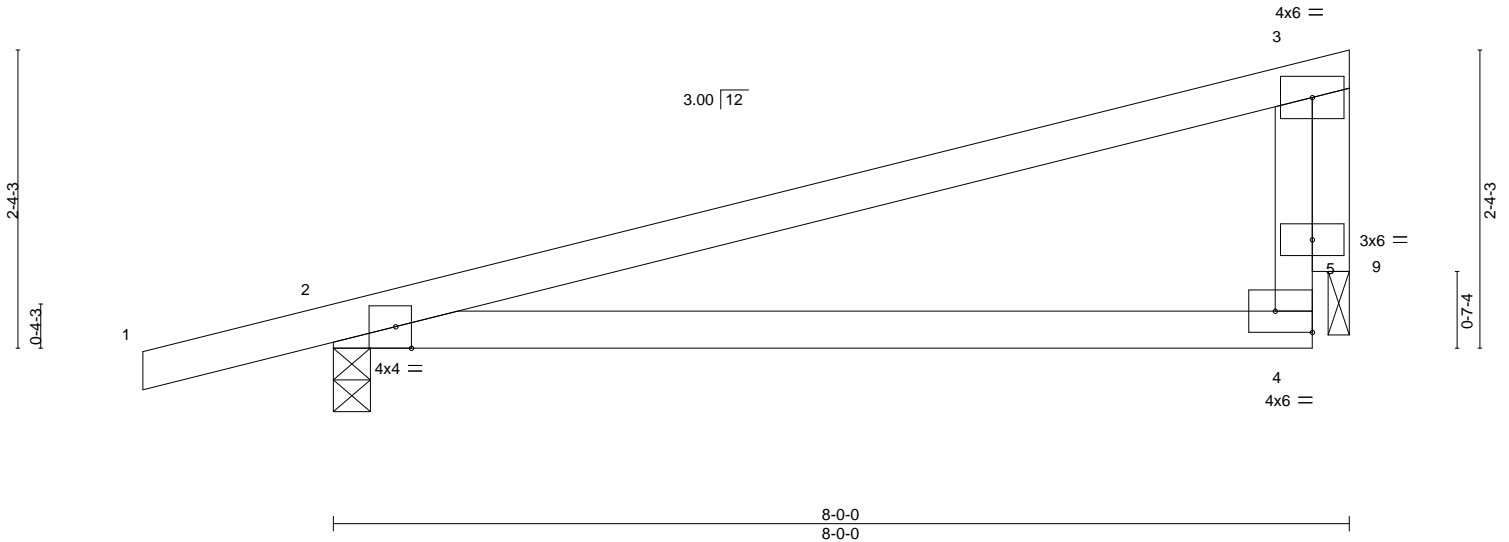


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [4:Edge,0-2-0]

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 0.61	Vert(LL)	0.30	4-8	>320	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.66	Vert(CT)	0.25	4-8	>373		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.42	Horz(CT)	-0.01	2	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MR					Weight: 31 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 7-3-4 oc bracing.

REACTIONS.

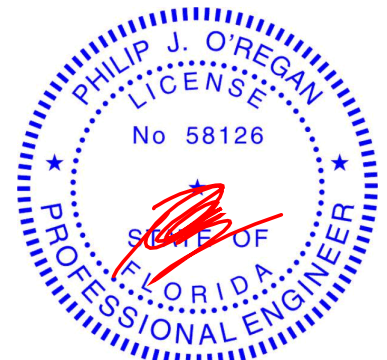
(size) 2=0-3-8, 9=0-2-0
 Max Horz 2=85(LC 8)
 Max Uplift 2=-205(LC 8), 9=-139(LC 8)
 Max Grav 2=381(LC 1), 9=260(LC 1)

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

TOP CHORD 2-3=-222/260, 4-5=-262/151, 3-5=-262/151
 BOT CHORD 2-4=-308/188
 WEBS 3-9=-279/450

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 7-6-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 2 and 139 lb uplift at joint 9.



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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



6904 Parke East Blvd.
 Tampa, FL 36610

Job 3112322	Truss T14G	Truss Type Monopitch Supported Gable	Qty 2	Ply 1	IC CONST. - WILKEY RES. Job Reference (optional)	T27386252
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:02:22 2022 Page 1

ID:WAwkW2WKQ8asokypuHB6CYzSsON-5jWqH9cJxlempGLssyoDo8MDW9tn_HEEa33QDnzSpO?



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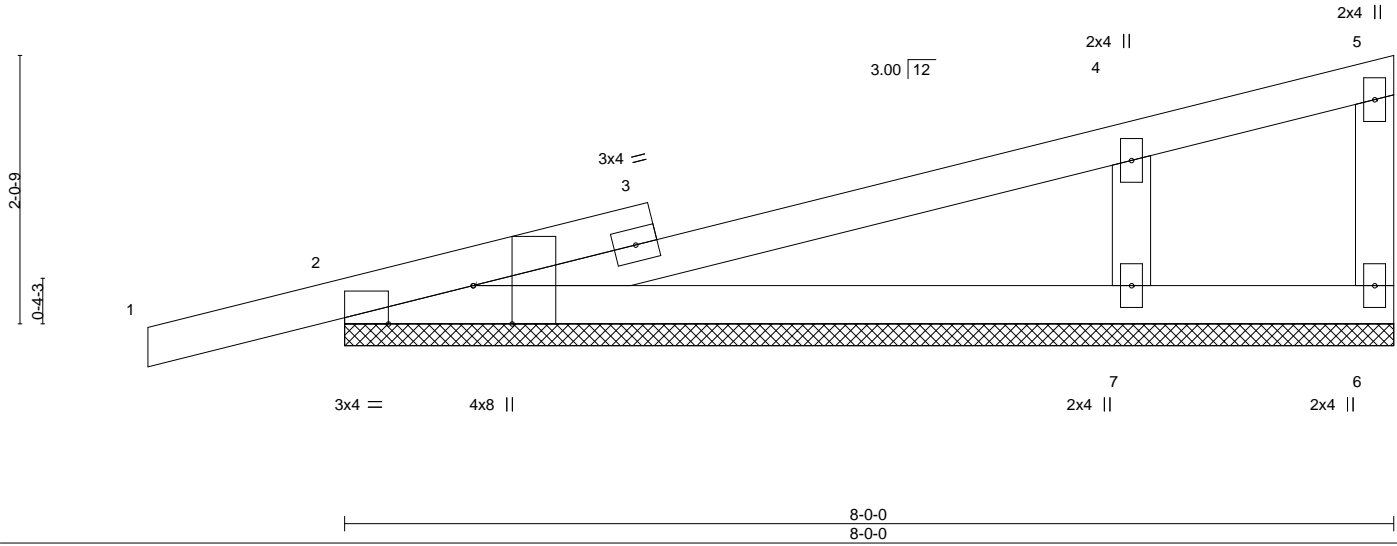


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-7-12,Edge]

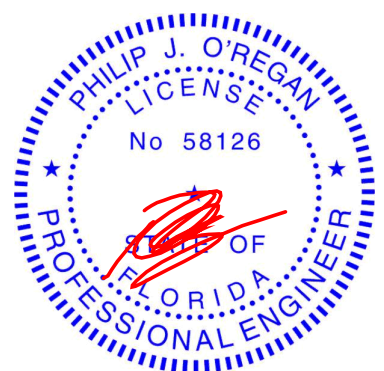
LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.34	Vert(LL) -0.00	1	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.26	Vert(CT) 0.01	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) -0.00	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S					Weight: 32 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 8-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=8-0-0, 6=8-0-0, 7=8-0-0
 Max Horz 2=76(LC 8)
 Max Uplift 2=-110(LC 8), 6=-71(LC 1), 7=-135(LC 12)
 Max Grav 2=270(LC 1), 6=18(LC 12), 7=463(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 4-7=-321/404

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; 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 7-10-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 2, 71 lb uplift at joint 6 and 135 lb uplift at joint 7.



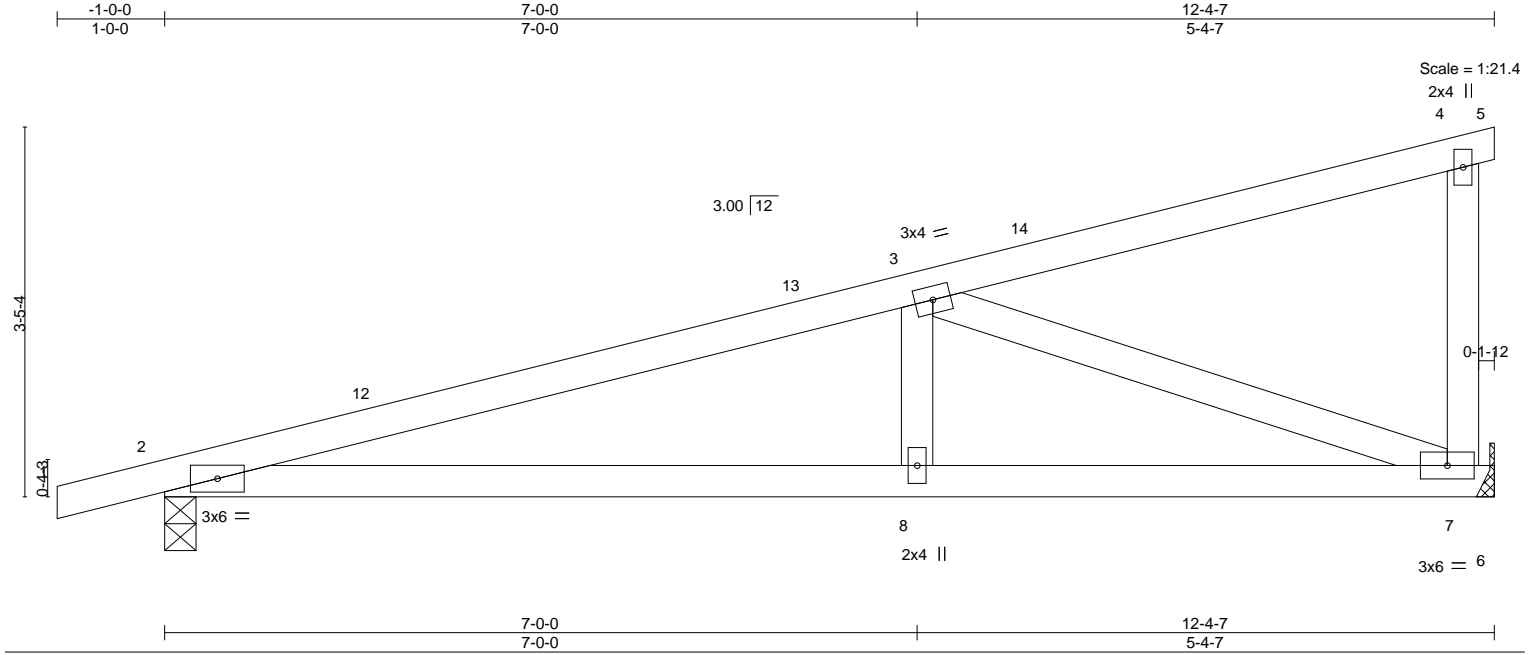
Philip J. O'Regan PE No.58126
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 Date:

April 11,2022

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKEY RES.	T27386253
3112322	T15	Jack-Closed	4	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:02:22 2022 Page 1
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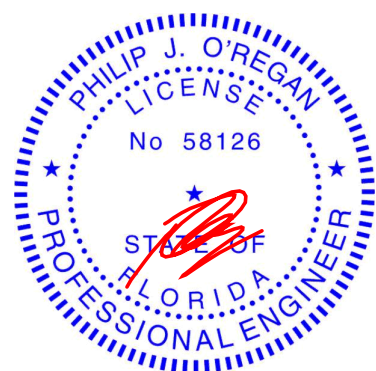
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.51	Vert(LL) -0.07 8-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.51	Vert(CT) -0.15 8-11 >948 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 7 n/a n/a	Weight: 53 lb	FT = 20%
	Code FBC2020/TPI2014				

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-5-4 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-8-1 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 7=Mechanical
 Max Horz 2=121(LC 8)
 Max Uplift 2=-153(LC 8), 7=-144(LC 8)
 Max Grav 2=503(LC 1), 7=455(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-936/270
 BOT CHORD 2-8=-357/885, 7-8=-357/885
 WEBS 3-8=0/271, 3-7=-918/362

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; 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 12-4-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 2 and 144 lb uplift at joint 7.



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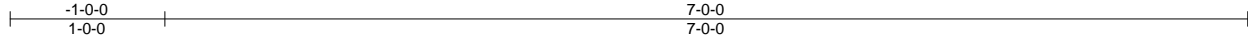
April 11, 2022

Job 3112322	Truss T15G	Truss Type GABLE	Qty 2	Ply 1	IC CONST. - WILKEY RES. Job Reference (optional)	T27386254
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:02:23 2022 Page 1

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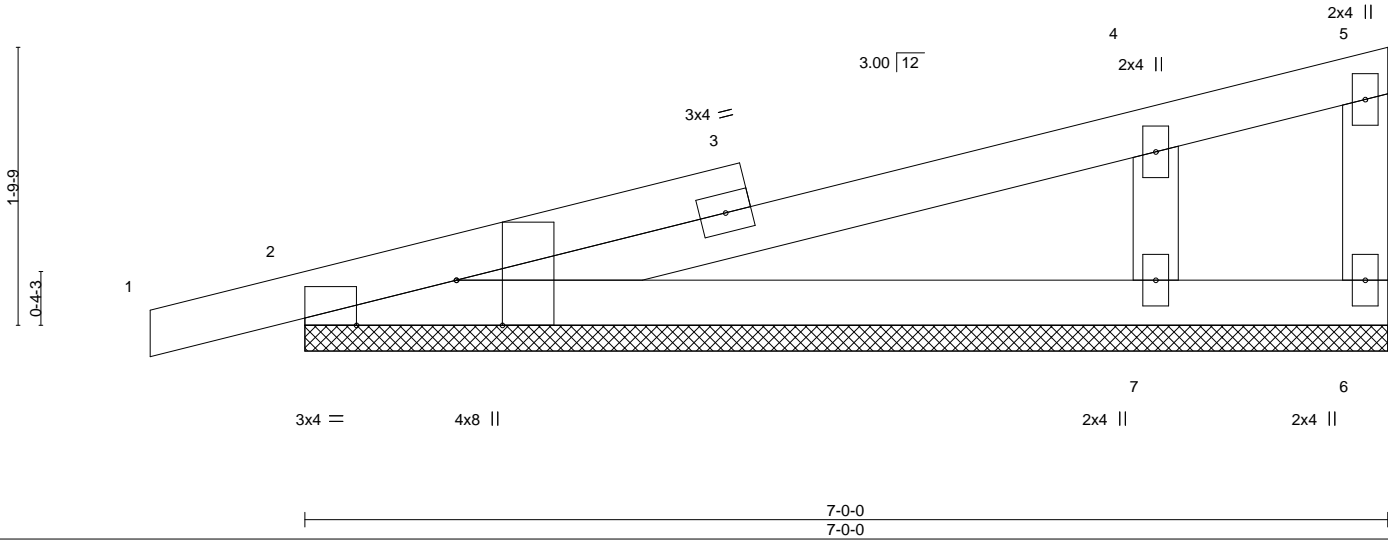


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-7-12,Edge]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.32	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.22	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT)	-0.00	6	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S					Weight: 29 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 6-0-0 oc bracing.

REACTIONS.

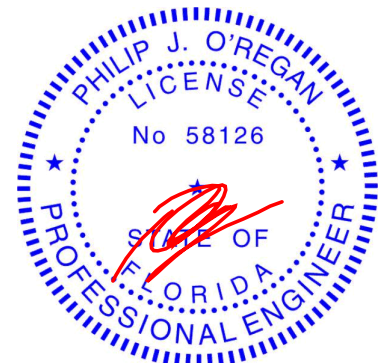
(size) 2=7-0-0, 6=7-0-0, 7=7-0-0
 Max Horz 2=61(LC 8)
 Max Uplift 2=-84(LC 8), 6=-108(LC 1), 7=-128(LC 12)
 Max Grav 2=223(LC 1), 6=27(LC 12), 7=446(LC 1)

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

WEBS 4-7=308/414

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 6-10-4 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 2, 108 lb uplift at joint 6 and 128 lb uplift at joint 7.



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April 11, 2022

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

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

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



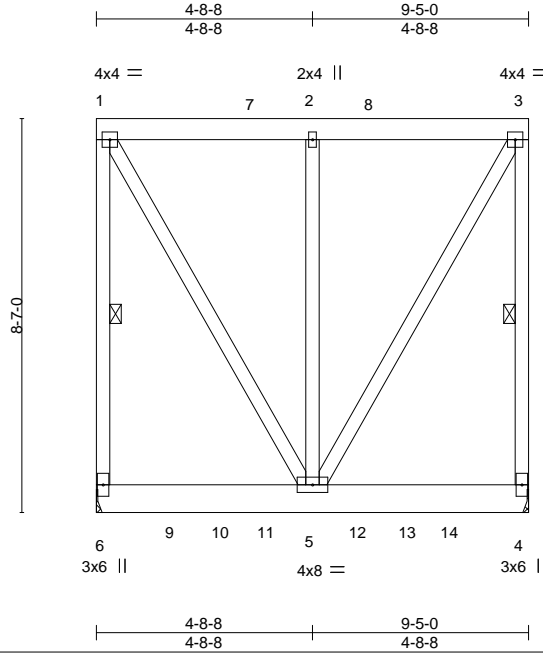
6904 Parke East Blvd.
 Tampa, FL 36610

Job 3112322	Truss TG01	Truss Type FLAT GIRDER	Qty 1	Ply 2	IC CONST. - WILKEY RES. Job Reference (optional)	T27386255
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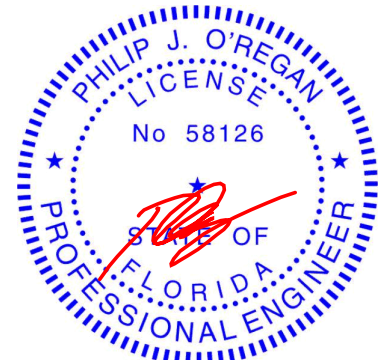
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:02:24 2022 Page 1

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Scale = 1:50.2



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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0 Plate Grip DOL 1.25	TC 0.13	Vert(LL) -0.01	5	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.04	Vert(CT) -0.01	5	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.18	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 221 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 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 1-6, 3-4

REACTIONS.

(size) 6=Mechanical, 4=Mechanical
Max Uplift 6=-636(LC 4), 4=-627(LC 4)
Max Grav 6=1210(LC 32), 4=1202(LC 31)

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

TOP CHORD 1-6=-925/477, 1-2=-404/226, 2-3=-404/226, 3-4=-925/477
WEBS 1-5=-454/810, 2-5=-688/239, 3-5=-455/810

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.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=22ft; 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, 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 636 lb uplift at joint 6 and 627 lb uplift at joint 4.
- Girder carries tie-in span(s): 6-0-0 from 0-0-0 to 9-5-0
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 247 lb down and 248 lb up at 1-8-0, 247 lb down and 248 lb up at 3-8-0, and 247 lb down and 248 lb up at 5-8-0, and 247 lb down and 248 lb up at 7-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-128(B=-74), 4-6=-20

April 11, 2022

Continued on page 2

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

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKEY RES.	T27386255
3112322	TG01	FLAT GIRDER	1	2	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:02:24 2022 Page 2
 ID:WAwkV2WKQ8asokypuHB6CYzSsON-25eaireZTMuU3ZVE_NrhtZRdMzdkSAnX2NYXHgzSpNz

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 9=-230(F) 11=-230(F) 12=-230(F) 14=-230(F)

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

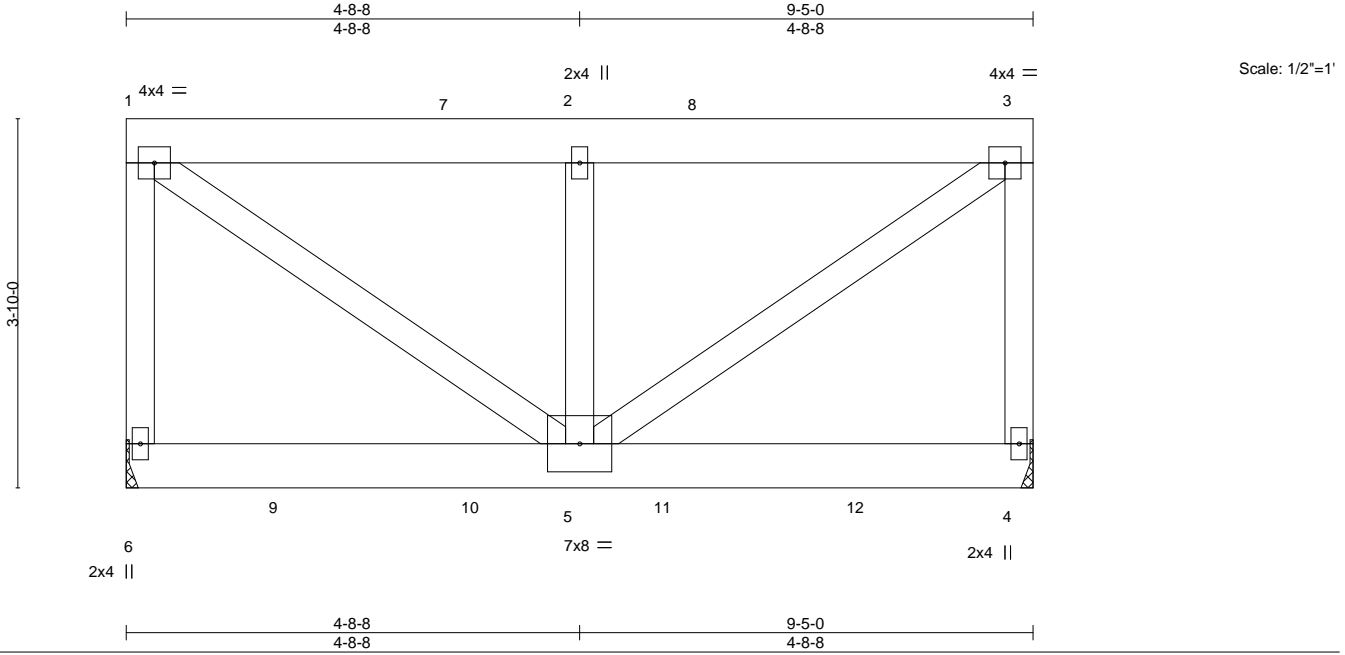
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKEY RES.	T27386256
3112322	TG02	FLAT GIRDER	1	2	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:02:25 2022 Page 1
 ID:WAwkW2WKQ8asokypuHB6CYzSsON-WICyvBfBEg0LgJ4RY5MwQn_mZMInBa6hG1H4p6zSpNy



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.23	Vert(LL) -0.02	5-6	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.33	Vert(CT) -0.04	5-6	>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: 145 lb	FT = 20%

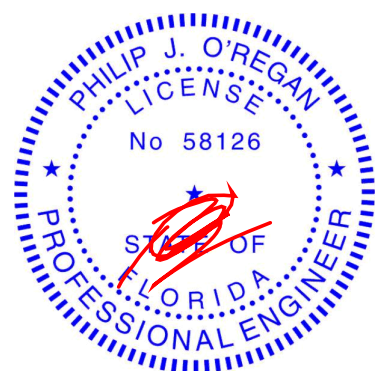
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 6=Mechanical, 4=Mechanical
 Max Uplift 6=-583(LC 4), 4=-575(LC 4)
 Max Grav 6=1894(LC 1), 4=1870(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-6=-1413/442, 1-2=-1600/496, 2-3=-1600/496, 3-4=-1414/442
 WEBS 1-5=-598/1930, 2-5=-637/239, 3-5=-598/1931

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; 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 583 lb uplift at joint 6 and 575 lb uplift at joint 4.
 - Girder carries tie-in span(s): 6-0-0 from 0-0-0 to 9-5-0; 6-0-0 from 0-0-0 to 9-5-0
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 435 lb down and 164 lb up at 1-7-12, 435 lb down and 164 lb up at 3-7-12, and 435 lb down and 164 lb up at 5-7-12, and 435 lb down and 164 lb up at 7-7-12 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: 1-3=-128(B=-74), 4-6=-94(B=-74)



Philip J. O'Regan PE No.58126
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

April 11, 2022

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKEY RES.	T27386256
3112322	TG02	FLAT GIRDER	1	2	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:02:25 2022 Page 2
 ID:WAwkW2WKQ8asokypuHB6CYzSsON-WICyvBfBEg0Lgj4RY5MwQn_mZMitNBa6hG1H4p6zSpNy

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 9=-435(F) 10=-435(F) 11=-435(F) 12=-435(F)

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



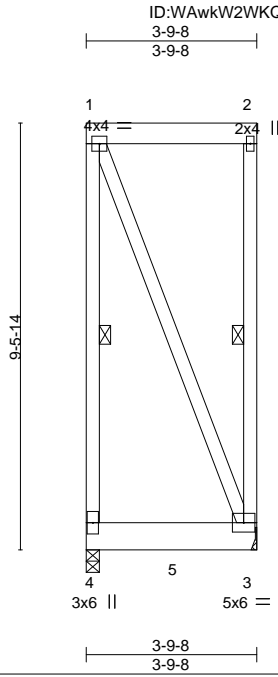
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - WILKEY RES.	T27386257
3112322	TG03	Flat Girder	1	1	Job Reference (optional)	

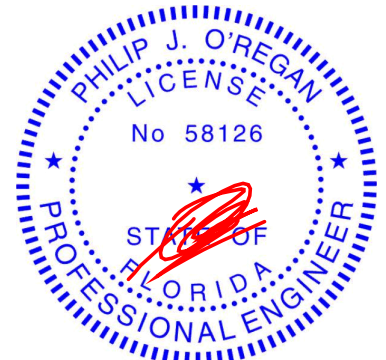
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 8 10:02:25 2022 Page 1

ID:WAwkW2WKQ8asokypuHB6CYzSsON-WICyvBfBEg0LgJ4RY5MwQn_ojMxOBfrhG1H4p6zSpNy



Scale = 1:51.2



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6904 Parke East Blvd. Tampa FL 33610
Date:

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0 Plate Grip DOL 1.25	TC 0.09	Vert(LL) 0.00	3-4	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.08	Vert(CT) -0.01	3-4	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP					Weight: 59 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-4, 2-3

REACTIONS.

(size) 4=0-3-8, 3=Mechanical
Max Uplift 4=-159(LC 4), 3=-172(LC 4)
Max Grav 4=257(LC 2), 3=273(LC 2)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 4 and 172 lb uplift at joint 3.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 354 lb down and 272 lb up at 1-11-14 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: 1-2=-54, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-262

April 11, 2022

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

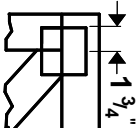
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



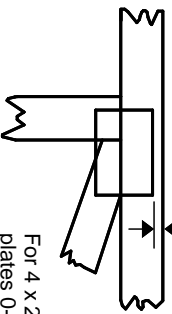
6904 Parke East Blvd.
Tampa, FL 36610

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

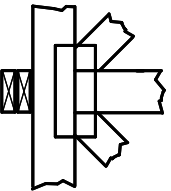
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



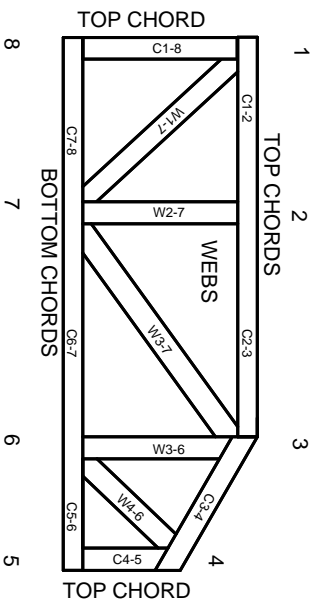
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, 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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability/bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T or 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.



MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020