

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

2951573 - GIEBEIG - LOT 43 CW

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: Giebeig Const. Project Name: Spec Hse Model: 1677

Subdivision: Crosswinds

Lot/Block: 43

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 Roof Load: 37.0 psf

Wind Speed: 130 mph Floor Load: N/A psf

This package includes 31 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	T25552141	CJ01	10/5/21	23	T25552163	T14	10/5/21
2 3 4 5 6 7	T25552142	CJ03	10/5/21	24	T25552164	T14G	10/5/21
3	T25552143	CJ05	10/5/21	25	T25552165	T15	10/5/21
4	T25552144	EJ01	10/5/21	26	T25552166	T15G	10/5/21
6	T25552145 T25552146	HJ08 PB01	10/5/21 10/5/21	27 28	T25552167 T25552168	T16 T17	10/5/21 10/5/21
7	T25552147	PB01G	10/5/21	29	T25552169	T17G	10/5/21
á	T25552148	T01	10/5/21	30	T25552170	T18	10/5/21
8	T25552149	T01G	10/5/21	31	T25552171	T18G	10/5/21
10	T25552150	T02	10/5/21				
11	T25552151	T03	10/5/21				
12	T25552152	T04	10/5/21				
13	T25552153 T25552154	T05 T06	10/5/21				
14 15	T25552154	T06G	10/5/21 10/5/21				
16	T25552156	T07	10/5/21				
17	T25552157	T07G	10/5/21		-		
18	T25552158	T08	10/5/21		5-32		
19	T25552159	T09	10/5/21				
20	T25552160	T10	10/5/21				
21	T25552161	T11	10/5/21				
22	T25552162	T13G	10/5/21				

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

October 5,2021

GIEBEIG - LOT 43 CW lob Truss Truss Type Qty Ply T25552142 2951573 CJ03 Jack-Open 1 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MITek Industries, Inc. Mon Oct 4 19:43:58 2021 Page 1 ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-86Mv_Q5UKKKo8BGk8SwJWBGFtMYLLUib6ngaluyWhol Scale = 1:17.3 8.00 12 0-4-12

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	-0.01	4-7	>999	180	III IMOLAWOOD	
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP						Weight: 13 lb	FT = 20%

LUMBER-

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

TOP CHORD BOT CHORD

3-0-0

Structural wood sheathing directly applied or 3-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

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

Max Horz 2=97(LC 12)

Max Uplift 3=-44(LC 12), 2=-49(LC 12)

Max Grav 3=65(LC 19), 2=210(LC 1), 4=51(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 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 44 lb uplift at joint 3 and 49 lb uplift at joint 2.



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October 5,2021

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 property 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

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



GIEBEIG - LOT 43 CW Llob Truss Truss Type Qty PIV T25552144 2951573 EJ01 Jack-Partial 10 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:00 2021 Page 1 ID:zqaFL3IHcqBYQ?xLR?HG4?yWlpx-4VUgP57ksxaWNUQ6FtznbcMXtAAwpOCuZ59hqnyWhoj Lake City, FL - 32055, Builders FirstSource (Lake City,FL), No 58126 1-6-0 Scale = 1:26.0 8.00 12 0-4-12 Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date: 5-8-0 5-8-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. **Vdefl** L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.25 TC 0.39 0.05 >999 MT20 244/190 TCLL Vert(LL) 4-7 240 7.0 Lumber DOL 1.25 BC 0.33 -0.09 >724 180 TCDL Vert(CT) 0.0 Rep Stress Incr YES WB 0.00 BCLL Horz(CT) 0.00 n/a 3 n/a BCDL Code FBC2020/TPI2014 Matrix-MP Weight: 22 lb FT = 20% 10.0

LUMBER-

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

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

REACTIONS.

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

Max Horz 2=158(LC 12)

Max Uplift 3=-93(LC 12), 2=-50(LC 12), 4=-1(LC 12) Max Grav 3=138(LC 19), 2=299(LC 1), 4=102(LC 3)

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

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 5-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 93 lb uplift at joint 3, 50 lb uplift at joint 2 and 1 lb uplift at joint 4.

October 5,2021



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GIEBEIG - LOT 43 CW Job Truss Truss Type Qty Ply T25552146 PB01 10 2951573 Piggyback Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:02 2021 Page 1 ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-0tcQqn8_OZqDdoaVNI?Fh1Rz1zwNHliB1PenufyWhoh 4-0-0 Scale = 1:8.7 3 8.00 12 0-1-10 2x4 = 2x4 =

		F				4-0-0						
Plate Offs	ets (X,Y)	[3:0-3-0,Edge]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.02	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	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/T	PI2014	Matri	x-P						Weight: 11 lb	FT = 20%

LUMBER-

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

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

REACTIONS.

(size) 2=2-5-12, 4=2-5-12

Max Horz 2=25(LC 11)

Max Uplift 2=-29(LC 12), 4=-29(LC 13) Max Grav 2=118(LC 1), 4=118(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 2 and 29 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:

October 5,2021

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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Qty Ply GIEBEIG - LOT 43 CW Truss Truss Type T25552148 Common 2951573 T01 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:04 2021 Page 1 ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-yGjBFTAFwA5xs6jtUi1jmSWCunNst3wUUj7uzYyWhof 23-4-0 6-7-13 5-0-3 Scale = 1:49.3 4x6 || 8.00 12 5x6 / 9 17 10 3x6 = 4x6 = 3x6 = 4x4 = 4x4 = 6-7-13 6-7-13 6-7-13 10-0-6 Plate Offsets (X,Y)-[2:0-3-5,0-1-8], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-3-5,0-1-8] LOADING (psf) SPACING-DEFL. PLATES 2-0-0 CSI. in (loc) I/defl L/d GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.38 Vert(LL) -0.23 8-10 244/190 >999 240 MT20

-0.43

0.03

8-10

6

>654

n/a

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

180

n/a

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

Structural wood sheathing directly applied or 3-10-4 oc purlins.

LUMBER-

TCDL

BCLL

BCDL

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

7.0

10.0

0.0

WEBS 2x4 SP No.3

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

Max Horz 2=193(LC 11)

Lumber DOL

Rep Stress Incr

Code FBC2020/TPI2014

Max Uplift 2=-285(LC 12), 6=-285(LC 13) Max Grav 2=1369(LC 19), 6=1370(LC 20)

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

TOP CHORD 2-3=-2089/398, 3-4=-2121/556, 4-5=-2122/556, 5-6=-2089/398

BOT CHORD 2-10=-339/1793, 8-10=-136/1087, 6-8=-242/1685

WEBS 4-8=-370/1295, 5-8=-328/246, 4-10=-370/1295, 3-10=-328/246

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-8-0, Exterior(2R) 11-8-0 to 14-8-0, Interior(1) 14-8-0 to 24-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

BC

WB

Matrix-MS

0.97

0.59

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

1.25

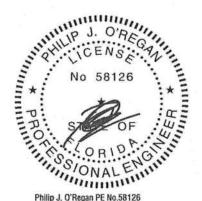
NO

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 285 lb uplift at joint 2 and 285 lb uplift at joint 6
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-7=-54, 2-10=-20, 8-10=-80(F=-60), 6-8=-20



FT = 20%

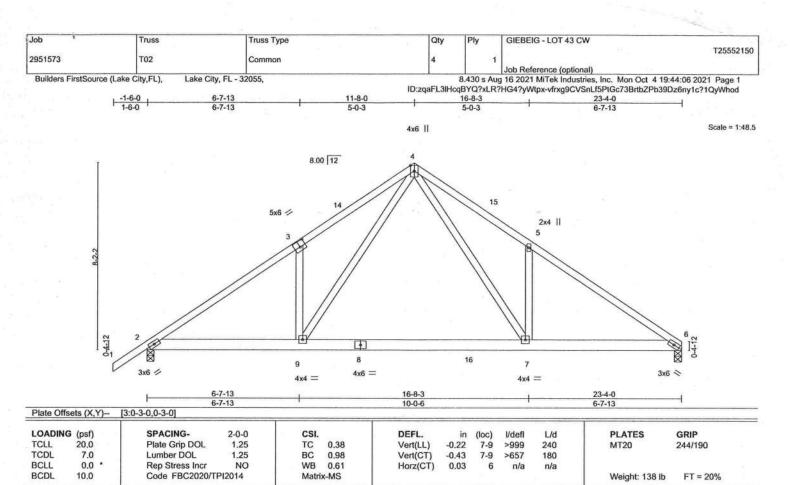
Weight: 141 lb

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

October 5,2021

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-7473 (ev. 5/19/2020 REFORE 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 manage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Ansurpt1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.3 (size) 6=0-3-8, 2=0-3-8

Max Horz 2=186(LC 9) Max Uplift 6=-252(LC 13), 2=-286(LC 12) Max Grav 6=1293(LC 20), 2=1371(LC 19)

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

TOP CHORD 2-3=-2090/399, 3-4=-2123/557, 4-5=-2139/569, 5-6=-2101/407

BOT CHORD 2-9=-355/1783, 7-9=-152/1078, 6-7=-259/1679

WEBS 4-7=-382/1314, 5-7=-333/250, 4-9=-369/1294, 3-9=-328/246

NOTES-

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-8-0, Exterior(2R) 11-8-0 to 14-8-0, Interior(1) 14-8-0 to 23-4-0 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.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=252, 2=286.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-6=-54, 2-9=-20, 7-9=-80(F=-60), 6-7=-20



Structural wood sheathing directly applied or 3-9-11 oc purlins.

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

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

October 5,2021



6904 Parke East Blvd. Tampa, FL 36610

Job *	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 43 CW	W05550454
2951573	Т03	Half Hip Girder	1		1	T25552151
	I CARCE	Control of the state of the sta			Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:07 2021 Page 2 ID:zqaFL3lHcqBYQ?xLR?HG4?yWtpx-NrPJtVC7D5TWjZSSArbQO58gm_XyyT1wBhLYatyWhoc

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 42-76(B) 62-76(B) 14=-280(B) 8*-76(B) 17=-76(B) 18=-76(B) 19=-76(B) 21=-76(B) 22=-76(B) 23=-170(B) 24=-47(B) 25=-47(B) 2



GIEBEIG - LOT 43 CW Job Truss Type Qty Plv Truss T25552153 T05 Half Hip 2951573 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:09 2021 Page 1 ID:zqaFL3IHcqBYQ?xLR?HG4?yWlpx-JDX4IAENlijEytcrHGduTWD2xo8UQDHDe?qfelyWhoa Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 4-11-12 Scale = 1:44.1 4x4 = 3x8 = 4x4 = 6 17 18 9 8.00 12 2x4 < ⊠ 8 10 19 7 9 11 3x6 = 2x4 || 2x4 || 3x8 = 3x8 = 3x4 = 19-11-8 6-4-0 3-11-8 Plate Offsets (X,Y)-[2:0-8-0,0-1-0], [4:0-2-4,0-2-0] DEFL. PLATES GRIP LOADING (psf) SPACING-2-0-0 CSI. (loc) l/defl L/d in -0.18 11-14 240 244/190 Vert(LL) >999 MT20 20.0 Plate Grip DOL 1.25 TC 0.49 TCLL BC 0.74 1.25 -0.38 11-14 >632 180 TCDL 7.0 Lumber DOL Vert(CT) WB 0.97 0.02 BCLL 0.0 Ren Stress Incr Horz(CT) n/a n/a YES Code FBC2020/TPI2014 Matrix-MS Weight: 143 lb FT = 20% BCDL 10.0 **BRACING-**LUMBER-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-1-5 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 9-11-5 oc bracing.

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

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

Max Horz 2=252(LC 12)

Max Uplift 2=-188(LC 12), 8=-241(LC 9) Max Grav 2=869(LC 19), 8=1033(LC 2)

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

2-3=-1013/231, 3-4=-816/183, 4-5=-624/194 TOP CHORD **BOT CHORD** 2-11=-348/874, 9-11=-109/388, 8-9=-109/388 WEBS 3-11=-328/183, 5-11=-125/387, 5-8=-879/230

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-8-0, Exterior(2R) 9-8-0 to 13-10-15, Interior(1) 13-10-15 to 22-5-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=188, 8=241.



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

October 5,2021

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Qty Ply GIEBEIG - LOT 43 CW Job Truss Truss Type T25552155 2951573 T06G Common Supported Gable Job Reference (optional) Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:12 2021 Page 1 Builders FirstSource (Lake City,FL), ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-joCCwCGG1d5ppKKQyOAb58rer?LwdoTfKy3JF4yWhoX Scale: 3/16"=1"

4x4 =

8.00 12 10 11 3x6 / 12 3x6 N 13 6 5 15 3x4 > 16 3x4 <

30-0-0 Plate Offsets (X,Y)-[18:0-3-8,Edge] LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. L/d in (loc) I/defl TCIL 20.0 Plate Grip DOL 1 25 TC 0.13 Vert(LL) -0.01 19 120 MT20 244/190 n/r TCDL 7.0 Lumber DOL 1.25 BC 0.06 Vert(CT) -0.0119 n/r 120 WB BCLL 0.0 Rep Stress Incr YES 0.11 Horz(CT) 0.01 18 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-S Weight: 205 lb FT = 20%

27 26

3x6 =

28

LUMBER-

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

BRACING-TOP CHORD 24

25

23

22

21

BOT CHORD WEBS

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

20

4x8 ||

Rigid ceiling directly applied or 10-0-0 oc bracing. 9-26, 8-28, 10-25 1 Row at midpt

REACTIONS. All bearings 30-0-0

(lb) - Max Horz 1=-228(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18

Max Grav All reactions 250 lb or less at joint(s) 1, 26, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18

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

NOTES-

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

3x6 /

33

32

31

30

29

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-4-15 to 3-4-15, Exterior(2N) 3-4-15 to 15-0-0, Corner(3R) 15-0-0 to 18-0-0, Exterior(2N) 18-0-0 to 31-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18.



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

October 5,2021

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Job GIEBEIG - LOT 43 CW Truss Truss Type Qty Ply T25552157 2951573 T07G GABLE Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:14 2021 Page 1 Lake City, FL - 32055, Builders FirstSource (Lake City,FL), ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-gBKzLuIWZFLW3eUo4pD3AZxs5pvo5gmyoGYQJzyWhoV 19-11-8 4-11-8 4x4 = Scale = 1:60,9 8.00 12 2x4 || 2x4 || 3x4 / 3x4 / 3x6 > 11-6-0 3x8 / 2x4 || 2x4 || 9 10 8 3x6 = 2x4 || 2x4 || 3x8 = 3x6 = 7-5-10 7-5-10 15-0-0 19-11-8 H Plate Offsets (X,Y)-[3:0-2-8,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.07 10-17 244/190 0.66 Vert(LL) >999 240 TCDL 7.0 Lumber DOL 1.25 BC 0.54 Vert(CT) -0.14 10-17 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.25 Horz(CT) 0.02 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS FT = 20% Weight: 149 lb LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-0-1 oc purlins, BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt

OTHERS 2x4 SP No.3

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

Max Horz 2=299(LC 12) Max Uplift 2=-167(LC 12), 7=-190(LC 12) Max Grav 2=817(LC 1), 7=730(LC 1)

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

TOP CHORD

2-3=-997/164, 3-5=-460/120, 5-6=-413/140, 6-7=-693/198

BOT CHORD

2-10=-313/786, 8-10=-313/786

WEBS

3-10=0/325, 3-8=-596/279, 6-8=-133/484

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 15-0-0, Exterior(2R) 15-0-0 to 18-0-0, Interior(1) 18-0-0 to 19-9-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

5) Gable 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 100 lb uplift at joint(s) except (jt=lb) 2=167, 7=190.



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October 5,2021

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



GIEBEIG - LOT 43 CW Job Truss Truss Type Qty Ply T25552159 T09 3 2951573 Roof Special Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:16 2021 Page 1 ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-caSjmaJn5sbElyeBBEFXF_0BmdVYZZGFFa1XOryWhoT Builders FirstSource (Lake City,FL), Lake City, FL - 32055. 1-6-0 2-3-8 Scale = 1:71.0 4x4 = 8.00 12 3x6 > 5 20 5x8 / 3x6 <> 0-4-12 10-0-10 12 11 1 3x8 = 92x4 || 13 8 4x4 = 2x4 II 2x4 || 3x6 =2x4 || 5x12 = Plate Offsets (X,Y)--[2:0-5-0,0-4-0], [3:0-3-0,Edge] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 l/defl L/d (loc) 244/190 20.0 Plate Grin DOI 1 25 TC. 0.71 Vert(LL) 0.15 2-12 >999 240 MT20 TCII TCDL 7.0 Lumber DOL 1.25 BC 0.85 Vert(CT) -0.262-12 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.31 Horz(CT) 0.17 n/a n/a Code FBC2020/TPI2014 FT = 20% BCDL 10.0 Matrix-MS Weight: 177 lb LUMBER-BRACING-TOP CHORD 2x4 SP No.2 *Except* TOP CHORD Structural wood sheathing directly applied or 5-9-4 oc purlins, 1-3: 2x6 SP M 26 except end verticals. 2x4 SP No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. Except: BOT CHORD 10-0-0 oc bracing: 8-10 2-13,2-10: 2x6 SP No.2, 5-8: 2x4 SP No.3 WEBS 1 Row at midpt 3-11 WEBS 2x4 SP No.3 REACTIONS. (size) 1=0-3-8, 7=0-3-8 Max Horz 1=247(LC 12) Max Uplift 1=-157(LC 12), 7=-171(LC 12) Max Grav 1=837(LC 1), 7=844(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 2-18=-557/57, 2-3=-1408/321, 3-4=-711/186, 4-5=-609/216, 5-6=-626/166,

6-7=-793/187

BOT CHORD 2-12=-441/1220, 11-12=-443/1233, 10-11=-96/460, 5-10=-275/84 WEBS

3-12=-7/377, 3-11=-844/379, 4-11=-128/428, 6-10=-122/579

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-0-0, Exterior(2R) 15-0-0 to 18-0-0, Interior(1) 18-0-0 to 22-5-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=157, 7=171.



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

October 5,2021

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Job Truss Truss Type Qty GIEBEIG - LOT 43 CW T25552161 2951573 T11 Common Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:18 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-YyZTBFL1dTryYFoaJfH?KP5ZXQFp1SdYiuWeSkyWhoR 15-0-0 7-6-6 22-6-6 7-6-6 30-0-0 7-5-10 4x6 = Scale = 1:67.2 8.00 12 5x8 / 5x8 > 10 9 11 8 3x6 = 2x4 || 3x6 = 2x4 || 3x6 = 3x8 = 22-6-6 7-6-6 15-0-0 30-0-0 7-5-10 Plate Offsets (X,Y)-[3:0-4-0,0-3-0], [5:0-4-0,0-3-0], [6:0-2-3,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defi L/d **PLATES** GRIP (loc) TCLL 20.0 Plate Grip DOL 1.25 TC 0.63 Vert(LL) 0.08 11-14 >999 240 MT20 244/190 BC TCDL 7.0 Lumber DOL 1.25 0.60 Vert(CT) -0.17 8-17 >999 180 0.0 . BCLL Rep Stress Incr YES WB 0.32 Horz(CT) 0.06 n/a n/a 6 Code FBC2020/TPI2014 BCDL 10.0 Matrix-MS Weight: 159 lb FT = 20%BRACING-LUMBER-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 3-11-5 oc purlins. **BOT CHORD** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 WEBS WERS 1 Row at midpt 5-9.3-9 REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=242(LC 11)

Max Uplift 2=-252(LC 12), 6=-252(LC 13)

Max Grav 2=1191(LC 1), 6=1191(LC 1)

FORCES. (ib) - Max. Comp./Max. Ten. - All forces 250 (ib) or less except when shown. TOP CHORD 2-3=-1653/314, 3-4=-1136/295, 4-5=-1136/295, 5-6=-1653/314 BOT CHORD 2-11=-300/1315, 9-11=-300/1314, 8-9=-154/1297, 6-8=-154/1298

WEBS

4-9=-165/760, 5-9=-586/281, 5-8=0/315, 3-9=-585/280, 3-11=0/315

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1.6-0 to 1-6-0, Interior(1) 1.6-0 to 15-0-0, Exterior(2R) 15-0-0 to 18-0-0, Interior(1) 18-0-0 to 31-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=252, 6=252.



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October 5,2021

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Qty GIEBEIG - LOT 43 CW Job Truss Type Ply Truss T25552163 10 2951573 T14 Piggyback Base Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:20 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-ULhEcxMH956gnZyyQ4KTPqBtnEucVlvrAC?kXcyWhoP 14-4-0 6-2-4 18-4-0 4-0-0 32-8-0 24-6-4 Scale: 3/16"=1" 4x8 = 4x4 = 8.00 12 pa 22 pa 5x8 / 5x6 > 6 9-11-7 0412V 12 9 27 11 10 3x6 = 2x4 || 3x6 = 3x6 = 2x4 || 3x4 = 3x8 3x6 = 14-4-0 6-2-4 32-8-0 18-4-0 24-6-4 4-0-0 8-1-12 Plate Offsets (X,Y)-[2:0-6-0,0-0-4], [3:0-4-0,0-3-0], [4:0-5-12,0-2-0], [6:0-3-0,0-3-4], [7:0-2-3,Edge] I/defl L/d PLATES GRIP SPACING-2-0-0 (loc) LOADING (psf) 244/190 Plate Grip DOL 1.25 TC Vert(LL) 0.20 13-16 >497 240 MT20 TCLL 20.0 0.64 1.25 BC 0.77 Vert(CT) -0.31 8-19 >946 180 TCDL 7.0 Lumber DOL 0.0 * WB 0.59 Horz(CT) 0.02 n/a n/a BCLL Rep Stress Incr YES Code FBC2020/TPI2014 Matrix-MS Weight: 191 lb FT = 20%BCDL 10.0 LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 2-0-0 oc purlins (6-0-0 max.): 4-5. WEBS Rigid ceiling directly applied or 10-0-0 oc bracing, **BOT CHORD** WEBS 1 Row at midpt 4-11, 6-10

REACTIONS.

(size) 2=0-3-8, 13=0-3-8, 7=0-3-8

Max Horz 2=226(LC 9)

Max Uplift 2=-97(LC 12), 13=-241(LC 12), 7=-212(LC 13) Max Grav 2=414(LC 23), 13=1341(LC 2), 7=1034(LC 20)

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

TOP CHORD

3-4=-670/244, 4-5=-615/268, 5-6=-824/267, 6-7=-1375/299

BOT CHORD

10-11=-67/503, 8-10=-142/1071, 7-8=-142/1073

WEBS

3-13=-1025/260, 3-11=-6/544, 4-10=-117/418, 6-10=-726/272, 6-8=0/378

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-9-3, Interior(1) 1-9-3 to 14-4-0, Exterior(2E) 14-4-0 to 18-4-0, Exterior(2R) 18-4-0 to 22-11-7, Interior(1) 22-11-7 to 32-8-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

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

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 13=241, 7=212.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

October 5,2021



Job Truss Truss Type GIEBEIG - LOT 43 CW Qty Ply T25552165 2951573 T15 Common Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:23 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-vwNMEzPAS0UFe1gX6CtA1TpSbR?5inAHsADO8xyWhoM 12-8-0 6-4-0 14-2-0 1-6-0 4x4 = Scale = 1:30 6 8.00 12 14 0-4-12 6 2x4 II 3x6 = 3x6 =12-8-0 Plate Offsets (X,Y)-[4:0-2-3,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. **PLATES** GRIP (loc) I/defl L/d TCLL 20.0 Plate Grip DOL 1.25 TC 0.42 Vert(LL) 0.05 6-9 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.40 Vert(CT) -0.08 6-9 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.11 Horz(CT) 0.00 4 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 53 lb FT = 20%

LUMBER-

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

BRACING-TOP CHORD **BOT CHORD**

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

REACTIONS.

(size) 2=0-3-8, 4=0-3-8 Max Horz 2=-115(LC 10)

Max Uplift 2=-126(LC 12), 4=-126(LC 13) Max Grav 2=550(LC 1), 4=550(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten, - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-553/156, 3-4=-553/156

2-6=-30/388, 4-6=-30/388 **BOT CHORD**

WEBS 3-6=0/291

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-4-0, Exterior(2R) 6-4-0 to 9-4-0, Interior(1) 9-4-0 to 14-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=126, 4=126.



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

October 5,2021

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Job Truss Truss Type Qty Ply GIEBEIG - LOT 43 CW T25552167 2951573 T16 Common Girder 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:25 2021 Page 1 ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-rIU7ffQQzdkztKqwDdve6uurSFkLAXTaJUiVCqyWhoK 6-4-0 2-10-5 12-8-0 4x6 || Scale = 1:27.8 8.00 12 3x6 / 3x6 < 0-4-12 13 14 15 16 8 7 6 3x8 || 4x8 = 7x8 = 3x8 || 4x8 = 6-4-0 12-8-0 9-2-5 3-5-11 Plate Offsets (X,Y)-[1:0-4-0,0-1-9], [5:0-4-0,0-1-9], [6:0-5-8,0-1-8], [7:0-4-0,0-4-8], [8:0-5-8,0-1-8] LOADING (psf) SPACING-2-0-0 CSL DEFL I/defl L/d PLATES GRIP (loc) 20.0 TCLL Plate Grip DOL 1.25 TC BC 0.20 Vert(LL) -0.05>999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 0.23 Vert(CT) -0.08 6-7 >999 180 BCLL 0.0 Rep Stress Incr WB NO 0.76 Horz(CT) 0.02 5 n/a n/a BCDL Code FBC2020/TPI2014 10.0 Matrix-MS Weight: 165 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WEBS

REACTIONS. (size) 1=0-3-8, 5=0-3-8 Max Horz 1=-93(LC 23)

Max Uplift 1=-695(LC 8), 5=-840(LC 9)

Max Grav 1=3382(LC 1), 5=4084(LC 1)

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

TOP CHORD

1-2=-5142/1061, 2-3=-3817/816, 3-4=-3817/817, 4-5=-5446/1121

1-8=-894/4256, 7-8=-894/4256, 6-7=-891/4511, 5-6=-891/4511 **BOT CHORD**

WEBS

3-7=-836/4009, 4-7=-1725/423, 4-6=-360/1825, 2-7=-1401/356, 2-8=-285/1462

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.

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

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

Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=695, 5=840,
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1088 lb down and 239 lb up at 2-0-12, 1088 lb down and 239 lb up at 4-0-12, 1088 lb down and 239 lb up at 6-0-12, 1088 lb down and 239 lb up at 8-0-12, and 1088 lb down and 239 lb up at 9-8-12, and 1089 lb down and 238 lb up at 11-8-12 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

No 58126

No 58126

No 58126

Philip J. O'REGO

O'REGO

No 58126

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

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

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October 5,2021

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Job Truss Truss Type Qty Ply GIEBEIG - LOT 43 CW T25552168 2951573 T17 Common 1 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:26 2021 Page 1 ID:zqaFL3lHcqBYQ?xLR?HG4?yWtpx-JV2Vs_R2kxspVUP6nKQtf5Q?7f3dv7CjY8S3lGyWhoJ -1-6-0 12-2-0 1-6-0 10-8-0 4x4 = Scale = 1:26.3 3 8.00 12 14 0-4-12 0-4-12 15 6 2x4 || 3x6 = 3x6 = 10-8-0 Plate Offsets (X,Y)- [4:0-2-3,Edge] LOADING (psf) SPACING-2-0-0 CSI DEFL I/defi L/d **PLATES** GRIP 20.0 TCLL Plate Grip DOL 1.25 TC 0.27 Vert(LL) 0.05 6-12 >999 240 MT20 244/190 BC TCDL 7.0 Lumber DOL 1.25 0.29 Vert(CT) -0.04 6-9 >999 180

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

4

n/a

n/a

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

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

LUMBER-

REACTIONS.

BCII

BCDL

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

0.0

10.0

2x4 SP No.3

(size) 2=0-3-8, 4=0-3-8 Max Horz 2=-100(LC 10)

Max Uplift 2=-112(LC 12), 4=-112(LC 13) Max Grav 2=476(LC 1), 4=476(LC 1)

Rep Stress Incr

Code FBC2020/TPI2014

FORCES. (lb) - Max, Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-455/455, 3-4=-455/455

TOP CHORD **BOT CHORD** 2-6=-264/318, 4-6=-264/318

WEBS 3-6=-325/242

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 5-4-0, Exterior(2R) 5-4-0 to 8-4-0, Interior(1) 8-4-0 to 12-2-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB 0.09

Matrix-MS

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

YES

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=112, 4=112,



Weight: 46 lb

FT = 20%

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Job Truss Truss Type Qty GIEBEIG - LOT 43 CW T25552170 2951573 T18 2 Common 1 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:28 2021 Page 1 ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-FtAFHgTIGY6XkoZVulTLkWWL9Sg3NvY00Sx9p9yWhoH -1-6-0 10-8-0 1-6-0 15-9-13 21-4-0 4x6 || Scale = 1:45.5 8.00 12 2x4 \\

10 19 9 22 8 3x6 = 20 3x6 = 3x4 = 3x6 = 3x4 =

14-1-13 21-4-0 Plate Offsets (X,Y)-[6:0-2-3,Edge]

LOADING (psf) SPACING-2-0-0 CSI. DEFL (loc) **Vdefl** L/d **PLATES** GRIP Plate Grip DOL TCLL 20.0 1.25 TC 0.30 Vert(LL) 0.10 8-16 >999 240 MT20 244/190 TCDI 7.0 Lumber DOL 1.25 BC 0.54 Vert(CT) -0.13 8-10 >999 180 0.0 BCLL Rep Stress Incr YES WB 0.61 Horz(CT) 0.03 6 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-MS Weight: 110 lb FT = 20%

LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 5-1-6 oc purlins.

Rigid ceiling directly applied or 7-1-0 oc bracing.

REACTIONS.

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

Max Horz 2=-179(LC 10)

Max Uplift 2=-189(LC 12), 6=-189(LC 13) Max Grav 2=930(LC 2), 6=930(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1202/838, 3-4=-1123/889, 4-5=-1124/889, 5-6=-1202/838 BOT CHORD 2-10=-616/969, 8-10=-335/647, 6-8=-627/970

WEBS

4-8=-500/545, 5-8=-286/200, 4-10=-500/543, 3-10=-286/200

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-8-0, Exterior(2R) 10-8-0 to 13-8-0, Interior(1) 13-8-0 to 22-10-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=189, 6=189.



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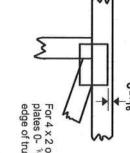


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 × 4

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

LATERAL BRACING LOCATION



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

BEARING



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

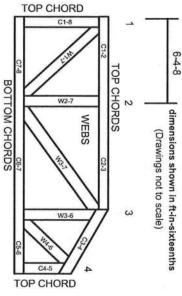
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.

BCSI: DSB-89:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

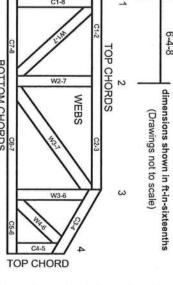
truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

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

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



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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

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- Cut members to bear tightly against each other
- Place plates on each face of truss at each locations are regulated by ANSI/TPI 1. joint and embed fully. Knots and wane at joint
- Design assumes trusses will be sultably protected from the environment in accord with ANSI/TPI 1.

7.

- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the

responsibility of truss fabricator. General practice is to

- Plate type, size, orientation and location dimensions camber for dead load deflection.
- indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone
- 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.