

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

RE: 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

State: FL

City: Columbia Cty

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

10/5/21 10/5/2

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	10/5/2
2 3 4 5 6 7	T25552142 T25552143	CJ03 CJ05	10/5/21 10/5/21	24 25	T25552164 T25552165	T14G T15	10/5/2 10/5/2
4	T25552144	EJ01	10/5/21	26	T25552166	T15G	10/5/2
5	T25552145	HJ08	10/5/21	27	T25552167	T16	10/5/2
6	T25552146	PB01	10/5/21	28	T25552168	T17	10/5/2
8	T25552147 T25552148	PB01G T01	10/5/21 10/5/21	29 30	T25552169 T25552170	T17G T18	10/5/2° 10/5/2°
8	T25552149	T01G	10/5/21	31	T25552171	T18G	10/5/2
10	T25552150	T02	10/5/21		, 2000	1. 1 Formores	10/0/2
11	T25552151	T03	10/5/21				
12 13	T25552152 T25552153	T04 T05	10/5/21 10/5/21				
14	T25552154	T06	10/5/21				
15 16	T25552155	T06G	10/5/21				
16	T25552156	T07	10/5/21				
17 18	T25552157 T25552158	T07G T08	10/5/21 10/5/21				
19	T25552159	T09	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.

10/5/21 10/5/21

10/5/21

Truss Design Engineer's Name: ORegan, Philip

T10

T25552160

T25552162

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.



October 5,2021

Job Truss Truss Type Qty GIEBEIG - LOT 43 CW T25552141 2951573 CJ01 2 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:43:57 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:zqaFL3lHcqBYQ?xLR?HG4?yWtpx-fwoXn45sZ0CxW1hXakP4_k4kyDWc1TSt7w0DSyWhom 1-0-0 Scale = 1:10.5 8.00 12 2 0-4-12 3x4 =

-			1-00											
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	0.00	7	>999	240	MT20	244/190		
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	7	>999	180				
BCLL	0.0	* Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a				
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-MP			-			Weight; 6 lb	FT = 20%		

LUMBER-

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

TOP CHORD BOT CHORD 1-0-0

Structural wood sheathing directly applied or 1-0-0 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=52(LC 12)

Max Uplift 3=-5(LC 1), 2=-69(LC 12), 4=-20(LC 1) Max Grav 3=7(LC 8), 2=179(LC 1), 4=21(LC 16)

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) 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 5 lb uplift at joint 3, 69 lb uplift at joint 2 and 20 lb uplift at joint 4.



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

October 5,2021

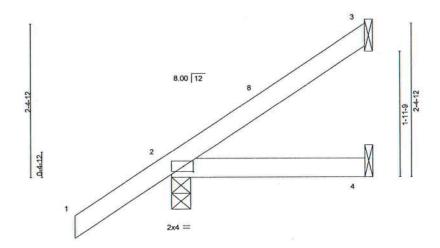
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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



Scale = 1:17.3



3-0-0 3-0-0

> BRACING-TOP CHORD

BOT CHORD

Plate Off	sets (X,Y)- [2:0-1-13,0-1-0]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	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		
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	100					Weight: 13 lb	FT = 20%

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

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

NOTES

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



Structural wood sheathing directly applied or 3-0-0 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



Job Truss Truss Type Qty Ply GIEBEIG - LOT 43 CW T25552143 2951573 CJ05 Jack-Open 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 19:43:59 2021 Page 1 ID:zqaFL3lHcqBYQ?xLR?HG4?yWtpx-clwlBm665eSfmLrwi9RY3PpOjmsy4xylLRP7HKyWhok Scale: 1/2"=1" 8.00 12 0-4-12 Philip J. O'Regan PE No.58126 3x4 = MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 5-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL I/defl L/d **PLATES** GRIP 20.0 TCLL Plate Grip DOL 1.25 TC 0.28 Vert(LL) 0.03 4-7 >999 240 MT20 244/190 1 25 BC TCDL 7.0 Lumber DOI 0.24 Vert(CT) -0.06 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-MP Weight: 19 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins. **BOT CHORD** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

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

Max Horz 2=143(LC 12)

Max Uplift 3=-81(LC 12), 2=-49(LC 12), 4=-1(LC 12)

Max Grav 3=120(LC 19), 2=276(LC 1), 4=89(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 4-11-4 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 81 lb uplift at joint 3, 49 lb uplift at joint 2 and 1 lb uplift at joint 4.

October 5,2021





GIEBEIG - LOT 43 CW Truss Type Qty Job Truss T25552144 EJ01 Jack-Partial 10 2951573 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:00 2021 Page 1 Lake City, FL - 32055, Builders FirstSource (Lake City,FL), ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-4VUgP57ksxaWNUQ6FtznbcMXtAAwpOCuZ59hqnyWhoj 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 LOADING (psf) SPACING-2-0-0 CSI. DEFL. **V**defl L/d PLATES GRIP 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.39 Vert(LL) 0.05 4-7 >999 240 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.33 Vert(CT) -0.09 4-7 >724 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MP Weight: 22 lb FT = 20%BRACING-LUMBER-Structural wood sheathing directly applied or 5-8-0 oc purlins. TOP CHORD TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **BOT CHORD** 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.

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 5-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 3, 50 lb uplift at joint 2 and 1 lb uplift at joint 4.



Job GIEBEIG - LOT 43 CW Truss Truss Type Qty Ply T25552145 2951573 HJ08 Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:01 2021 Page 1 ID:zqaFL3iHcqBYQ?xLR?HG4?yWtpx-Yh22cR8MdFiM?e?JpaU08qujBaV6Ypi2oluEMDyWhoi 7-11-7 3-8-0 Scale = 1:25.3 5.66 12 3x4 = 12 0-4-12 15 16 6 7 2x4 || 7-10-11 LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) Vdefl. L/d **PLATES** GRIP 20.0 Plate Grip DOL TCLL 1.25 TC 0.35 Vert(LL) -0.02 6-7 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.39 Vert(CT) -0.056-7 >999 180 BCLL 0.0 Rep Stress Incr NO WB 0.17 Horz(CT) 0.00 5 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

BCDL

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

10.0

2x4 SP No.3

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

Code FBC2020/TPI2014

Max Horz 2=157(LC 8)

Max Uplift 4=-141(LC 8), 2=-159(LC 8), 5=-87(LC 8) Max Grav 4=182(LC 1), 2=441(LC 1), 5=278(LC 3)

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

TOP CHORD

2-3=-475/131

2-7=-201/389, 6-7=-201/389 **BOT CHORD**

WEBS

3-6=-428/221

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

Matrix-MS

- 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 141 lb uplift at joint 4, 159 lb uplift at joint 2 and 87 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 62 lb down and 73 lb up at 1-6-1, 62 lb down and 73 lb up at 1-6-1, 80 lb down and 46 lb up at 4-4-0, 80 lb down and 46 lb up at 4-4-0, and 101 lb down and 90 lb up at 7-1-15, and 101 lb down and 90 lb up at 7-1-15 on top chord, and 21 lb down and 45 lb up at 1-6-1, 21 lb down and 45 lb up at 1-6-1, 25 lb down at 4-4-0, 25 lb down at 4-4-0, and 49 lb down and 16 lb up at 7-1-15, and 49 lb down and 16 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 5-8=-20

Concentrated Loads (lb)

Vert: 13=-110(F=-55, B=-55) 15=-4(F=-2, B=-2) 16=-72(F=-36, B=-36)



Weight: 37 lb

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

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

FT = 20%

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

October 5,2021

MARNING - 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 ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



GIEBEIG - LOT 43 CW Qty Ply Job Truss Truss Type T25552146 10 PB01 Piggyback 2951573 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:02 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-0tcQqn8_OZqDdoaVNI?Fh1Rz1zwNHIiB1PenufyWhoh Scale = 1:8.7 3x6 = 3 8.00 12 2 0-4-7 0-4-7 0-1-10 0-1-10 2x4 = 2x4 = [3:0-3-0,Edge] Plate Offsets (X,Y)-SPACING-2-0-0 CSI. DEFL (loc) I/defi **PLATES** GRIP LOADING (psf) Plate Grip DOL 1.25 TC 0.02 Vert(LL) 0.00 120 MT20 244/190 20.0 n/r TCLL 1.25 0.07 Vert(CT) 0.00 120 Lumber DOL BC n/r TCDL 7.0 WB 0.00 Horz(CT) 0.00 n/a n/a 0.0 Rep Stress Incr YES BCLL FT = 20%10.0 Code FBC2020/TPI2014 Matrix-P Weight: 11 lb BCDL BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

(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-

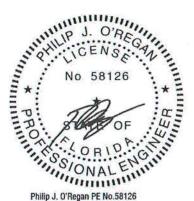
1) Unbalanced roof live loads have been considered for this design.

- 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.

5) 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.
- 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.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer



Structural wood sheathing directly applied or 4-0-0 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

October 5,2021

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. WARNING - Verily design parameters and READ NOTES ON THIS AND INCLUDED MITER REPERENCE - PAGE MINT-3 FeW. 5198/LOG BEFORE OSC.

Design valid for use only with MITCR® 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 its 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

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



Job Truss Type GIEBEIG - LOT 43 CW Truss Qty T25552147 2951573 PB01G **PIGGYBACK** 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 19:44:03 2021 Page 1 ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-U49o179d9sy4Ey8hx?WUDF_8sNGN0lyKG3NLR5yWnog 3x6 = Scale = 1:6.9 3 8.00 12 2 0-1-10 0-1-10

2x4 =

2x4 =

BRACING-

TOP CHORD

BOT CHORD

						2-11-6							
Plate Off	sets (X,Y)	[3:0-3-0,Edge]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.02	Vert(LL)	-0.00	4	n/r	120	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	-0.00	4	n/r	120	0.000.0000.000	1000 00000	
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		227020		37.00.000	137,775	Weight: 7 lb	FT = 20%	

2-11-6

LUMBER-

REACTIONS.

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

(size) 2=1-5-2, 4=1-5-2

Max Horz 2=18(LC 11) Max Uplift 2=-22(LC 12), 4=-22(LC 13)

Max Grav 2=79(LC 1), 4=79(LC 1)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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 22 lb uplift at joint 2 and 22 lb uplift at
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Structural wood sheathing directly applied or 2-11-6 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

MARNING - 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 MTEk® 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 bucking 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 benage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPH 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

Truss Type Qty GIEBEIG - LOT 43 CW .lob Truss Ply T25552148 T01 2951573 Common Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:04 2021 Page 1
ID:zqaFL3lHcqBYQ?xLR?HG4?yWtpx-yGjBFTAFwA5xs6jtUi1jmSWCunNsl3wUUj7uzYyWhof Builders FirstSource (Lake City,FL), Lake City, FL - 32055 1-6-0 1-6-0 11-8-0 5-0-3 6-7-13 Scale = 1:49.3 4x6 || 8.00 12 5x6 / 5x6 < 9 17 10 8

[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] Plate Offsets (X,Y)-GRIP SPACING-2-0-0 DEFL I/defl L/d **PLATES** LOADING (psf) CSI 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.38 Vert(LL) -0.23 8-10 >999 240 MT20 TCDL Lumber DOL 1.25 BC 0.97 Vert(CT) -0.43 8-10 >654 180 7.0 0.0 Rep Stress Incr NO WB 0.59 Horz(CT) 0.03 6 BCLL n/a n/a FT = 20%BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 141 lb

16-8-3

BRACING-

TOP CHORD

BOT CHORD

4x6 =

4x4 =

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS.

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

3x6 =

Max Horz 2=193(LC 11)

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.

6-7-13

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
- 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, 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

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



3x6 =

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

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

4x4 =

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.

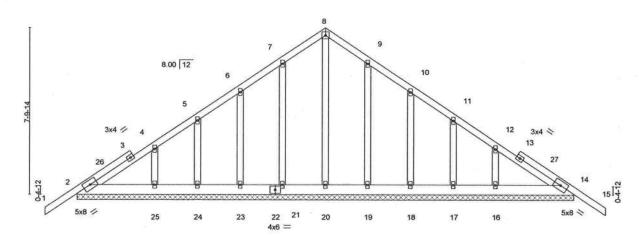
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses systems, see. 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



Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 43 CW		
2951573	T01G	Common Supported Gable	1	1	processor consistent account account of	T2	5552149
		45.0			Job Reference (optional)		
Builders FirstSour	rce (Lake City,FL),	Lake City, FL - 32055,		8.430 s Aug	16 2021 MiTek Industries, Inc.	Mon Oct 4 19:44:05 2021 Pa	age 1
		a marine a Marine A	ID:zqaFL3lHcqBYQ	?xLR?HG4?	PyWtpx-QSHZSpBthUDoUGI42Q	Yylg3RbByZUeWdjNsRV yW	V hoe
	1 -1-6-0	11-8-0			23-4-0	24-10-0	
	1-6-0	11-8-0			11-8-0	1-6-0	

4x4 =

Scale = 1:52 1



	23-4-0											
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	-0.00	15	n/r	120	MT20	244/190	
TCDL 7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.01	15	n/r	120		12011010000	
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	14	n/a	n/a			
BCDL 10.0	Code FBC2020/TPI	2014	Matri	x-S						Weight: 164 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 OTHERS 2x4 SP No.3 BRACING-

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

REACTIONS. All bearings 23-4-0.

(lb) - Max Horz 2=-186(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 23, 24, 25, 19, 18, 17, 16

Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 23, 24, 25, 19, 18, 17, 16

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

NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 11-8-0, Corner(3R) 11-8-0 to 14-8-0, Exterior(2N) 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
- 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) 2, 14, 21, 23, 24, 25, 19, 18, 17, 16.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 14.



Phillip 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 property incorporate his 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 truss systems, see

ANSITPH Quality Criteria, DSB-99 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



GIEBEIG - LOT 43 CW Truss Type Qty Ply Truss Job T25552150 T02 Common 2951573 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:06 2021 Page 1 Lake City, FL - 32055, Builders FirstSource (Lake City.FL). ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-vfrxg9CVSnLf5PtGc73BrtbZPb39Dz6ny1c?1QyWhod 16-8-3 23-4-0 6-7-13 Scale = 1:48.5 4x6 || 8.00 12 5x6 / 2x4 || 8 16 9 7 3x6 > 3x6 / 4x6 = 4x4 = Plate Offsets (X,Y)- [3:0-3-0,0-3-0] GRIP DEFL PLATES LOADING (psf) SPACING-2-0-0 CSI in (loc) I/defl 1/d 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.38 Vert(LL) -0.22 7-9 >999 240 MT20 TCDL Lumber DOL 1.25 BC 0.98 Vert(CT) -0.437-9 >657 180 7.0 0.03 BCLL 0.0 Rep Stress Incr NO WB 0.61 Horz(CT) 6 n/a n/a FT = 20% Weight: 138 lb Code FBC2020/TPI2014 Matrix-MS BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

...

REACTIONS.

A4 01 140.0

(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
- 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, 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

 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

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.

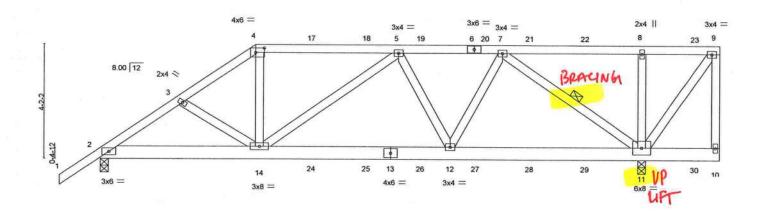
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 fruss 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 Truss Truss Type Qty Ply GIEBEIG - LOT 43 CW T25552151 2951573 T03 Half Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:07 2021 Page 1 Builders FirstSource (Lake City,FL). Lake City, FL - 32055, ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-NrPJtVC7D5TWjZSSArbQO58gm_XyyT1wBhLYatyWhoc 10-10-15 19-9-12 5-1-3

Scale = 1:40.5



-	5-8-0 5-8-0		12-9-12 7-1-12		1		-9-12		22-7-8
Plate Offsets (X,Y)			7-1-12				-0-0	0-1-12	2-8-0
TCLL 20.0 TCDL 7.0 BCLL 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 NO	CSI. TC 0.60 BC 0.49 WB 0.44	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.06 12-14 -0.12 12-14 0.03 11	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code FBC2020/T	PI2014	Matrix-MS					Weight: 147 lb	b FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 11=0-3-8

Max Horz 2=160(LC 8)

Max Uplift 2=-475(LC 8), 11=-824(LC 5) Max Grav 2=1293(LC 1), 11=1890(LC 1)

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

TOP CHORD 2-3=-1961/742, 3-4=-1850/727, 4-5=-1545/644, 5-7=-1554/612

BOT CHORD 2-14=-700/1595, 12-14=-728/1714, 11-12=-515/1241

4-14=-179/693, 5-12=-357/258, 7-12=-232/700, 7-11=-1686/722, 8-11=-469/306

WEBS NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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 (it=lb)
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 109 lb down and 100 lb up at 5-8-0, 109 lb down and 97 lb up at 7-8-12, 109 lb down and 97 lb up at 9-8-12, 109 lb down and 97 lb up at 11-8-12, 109 lb down and 92 lb up at 13-8-12, 109 lb down and 97 lb up at 15-8-12, 109 lb down and 97 lb up at 17-8-12, 109 lb down and 97 lb up at 19-8-12, and 105 lb down and 97 lb up at 21-8-12, and 103 lb down and 96 lb up at 21-11-4 on top chord, and 284 lb down and 134 lb up at 5-8-0, 62 lb down and 19 lb up at 7-8-12, 62 lb down and 19 lb up at 11-8-12, 62 lb down and 19 lb up at 13-8-12, 62 lb down and 19 lb up at 15-8-12, 62 lb down and 19 lb up at 17-8-12, and 67 lb down and 19 lb up at 21-8-12, and 71 lb down and 17 lb up at 21-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-9=-54, 2-10=-20

No 58126

No 58126

No 58126

O'Regan PE No.58

G'Ert 66 RYLLICENSE TO

Structural wood sheathing directly applied or 3-10-5 oc purlins,

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

except end verticals.

1 Row at midpt

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

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 20501



Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 43 CW	T25552151
2951573	Т03	Half Hip Girder	1	1	Job Reference (optional)	125552151

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:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-NrPJtVC7D5TWjZSSArbQO58gm_XyyT1wBhLYatyWhoc

LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 4=-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) 26=-47(B) 27=-47(B) 28=-47(B) 29=-47(B) 30=-101(B)



Job Truss Truss Type GIEBEIG - LOT 43 CW Qty Ply T25552152 2951573 T04 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:08 2021 Page 1 ID:zqaFL3lHcqBYQ?xLR?HG4?yWtpx-r1zh4rDI_PbNLj1fjY6fwlhpUQqJhou3PL566JyWhob 7-6-9 Scale = 1:40.2 4x8 = 4x4 = 3x4 = 3 16 4 17 9 8.00 12 4 ₩ 7 18 9 10 6 3x6 = 3x4 = 3x6 = 2x4 || 3x4 = 2x4 || 11-11-6 19-11-8 Plate Offsets (X,Y)-[3:0-5-12,0-2-0] LOADING (psf) SPACING-CSI. 2-0-0 DEFL (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.73 Vert(LL) -0.15 10-13 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.68 Vert(CT) -0.27 10-13 >872 180 BCLL 0.0 Rep Stress Incr WB YES 0.85 Horz(CT) 0.02 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-MS Weight: 124 lb FT = 20% LUMBER-

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

TOP CHORD

Structural wood sheathing directly applied or 3-10-14 oc purlins,

except end verticals.

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

REACTIONS.

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

Max Horz 2=206(LC 12)

Max Uplift 2=-199(LC 12), 7=-246(LC 9) Max Grav 2=859(LC 2), 7=1016(LC 2)

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

TOP CHORD

2-3=-1000/207, 3-4=-695/171

BOT CHORD

2-10=-239/761, 8-10=-239/769, 7-8=-152/532

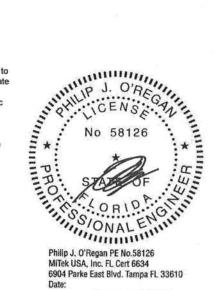
WEBS

3-10=-1/302, 4-8=-37/356, 4-7=-865/278

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 7-8-0, Exterior(2R) 7-8-0 to 11-10-15, Interior(1) 11-10-15 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.
- * 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=199, 7=246.



6904 Parke East Blvd. Tampa FL 33610

October 5,2021

MARNING - 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 MTE&9 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, crection 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



GIEBEIG - LOT 43 CW Job Truss Truss Type Qty Ply T25552153 2951573 T05 Half Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:09 2021 Page 1 Builders FirstSource (Lake City,FL). Lake City, FL - 32055. ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-JDX4IAENlijEytcrHGduTWD2xo8UQDHDe?qfelyWhoa 16-0-0 6-4-0 22-7-8 6-7-8 Scale = 1:44.1 4x4 = 3x8 = 4x4 = 6 5 17 18 2x4 🖎 8 10 19 7 11 9 3x6 = 2x4 || 3x8 = 2x4 || 3x4 = 16-0-0 19-11-8 3-11-8 Plate Offsets (X,Y)-[2:0-8-0,0-1-0], [4:0-2-4,0-2-0] PLATES DEFL L/d GRIP LOADING (psf) SPACING-2-0-0 CSI in (loc) **Vdefl** 244/190 240 Vert(LL) -0.18 11-14 >999 MT20 TCLL 20.0 Plate Grip DOL 1.25 TC 0.49 -0.38 11-14 180 TCDL 7.0 Lumber DOL 1.25 BC 0.74 Vert(CT) >632 WB BCLL 0.0 Rep Stress Incr YES 0.97 Horz(CT) 0.02 n/a n/a FT = 20% Weight: 143 lb Code FBC2020/TPI2014 BCDL 10.0 Matrix-MS BRACING-LUMBER-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-1-5 oc purlins, BOT CHORD 2x4 SP No.2 except end verticals **BOT CHORD** Rigid ceiling directly applied or 9-11-5 oc bracing. 2x4 SP No 3 WEBS REACTIONS. (size) 2=0-3-8, 8=0-3-8

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

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-8-0, 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.

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 Blvd. Tampa FL 33610 Date:

October 5,2021

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



Job Truss Truss Type GIEBEIG - LOT 43 CW Qty Ply T25552154 2951573 T06 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:10 2021 Page 1 ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-nQ4SVWF0W0r5a1B1rz87?jmBOCWq9qXMtfaCAByWhoZ 15-0-0 7-6-6 30-0-0 7-5-10 4x6 = Scale = 1:62.3 8.00 12 5x8 / 5x8 > 0-4-12 9 7 2x4 || 3x6 = 5x8 = 2x4 || 3x6 = 30-0-0 7-5-10 [2:0-4-0,0-3-0], [4:0-4-0,0-3-0], [5:0-2-3,Edge], [8:0-4-0,0-3-0] Plate Offsets (X,Y)-LOADING (psf) SPACING-CSL 2-0-0 DEFI in (loc) I/defi L/d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.25 0.64 TC Vert(LL) 0.09 9-12 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.61 Vert(CT) -0.18 9-12 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.33 Horz(CT) 0.06 5 n/a n/a BCDL Code FBC2020/TPI2014 10.0 Matrix-MS Weight: 156 lb FT = 20% LUMBER-BRACING-

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

TOP CHORD **BOT CHORD** WEBS

Structural wood sheathing directly applied or 3-10-5 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 4-8, 2-8

REACTIONS.

(size) 1=Mechanical, 5=0-3-8

Max Horz 1=-235(LC 10)

Max Uplift 1=-219(LC 12), 5=-252(LC 13) Max Grav 1=1108(LC 1), 5=1193(LC 1)

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

TOP CHORD

1-2=-1665/321, 2-3=-1140/298, 3-4=-1139/297, 4-5=-1656/315

1-9=-307/1327, 8-9=-307/1326, 7-8=-156/1300, 5-7=-156/1301

BOT CHORD

WEBS

3-8=-170/765, 4-8=-586/281, 4-7=0/315, 2-8=-596/287, 2-9=0/317

NOTES-

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

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

Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=219, 5=252.



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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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	Truss	Truss Type	C	lty Ply		GIEBEIG -	LOT 43 CW		T2555215
2951573	T06G	Common Supported Ga	ble 1		1	lah Dafasa	ence (optional)		12555215
Builders FirstSource (I	Lake City,FL), Lake City, F	L - 32055,		8.430	s Aug	16 2021 M	Tek Industries	, Inc. Mon Oct 4 19:4	14:12:2021 Page 1
		15-0-0	ID:zqaFL3ll	lcqBYQ?xLI	R?HG4	?yWtpx-jo(30-0-0	CCwCGG1d5p _l	pKKQyOAb58rer?Lwc 31-6-0 1-6-0	doTfKy3JF4yWhoX 0,
		15-0-0				15-0-0		1-6-0	D 1
			4x4 =						Scale: 3/16"=
	ī	8.00 12	9						154
			8	10					
			A I	11					
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		6			//	12 13			
or,		5 32 8			P		14		
10-0-9		4/8	R R	- 11		1 Pal			
	3 /				Ш		15	3x4 💸	
			BRACIA	167	Ш	- 11	18	16 3x4 >	
						- 1		17	
	2/8/			- 11			- 11	18/	
	1			- 11	- 11		11	18	8
	1		8 161 8 8	9	8	g	9	18	19[4
	3x6 /		***************************************			22		4x8	1914
			28 27 26 25 3x6 =	24	23	22			19][4
	3x6 /		28 27 26 25			22		4x8	4-12 1-2 1-2 1-2 1-2 1-2 1-2 1-2 1-2 1-2
	3x6 /		28 27 26 25 3x6 =			22		4x8	0 4 161
Plate Offsets (X,Y)	3x6 /		28 27 26 25 3x6 =			22		4x8	1914-
	3x6 = 33 32 [18:0-3-8,Edge]	31 30 29	28 27 26 25 3x6 = 30-0-0 30-0-0	24	23	555.0	21	4x8	1914 0
LOADING (psf) TCLL 20.0	3x6 33 32 [18:0-3-8,Edge] SPACING- Plate Grip DOL	2-0-0 CSI. 1.25 TC 0	28 27 26 25 3x6 = 30-0-0 30-0-0 DEFL. 0.13 Vert(LL)	in -0.01	(loc) 19	l/defl n/r	21 L/d 120	4x8 II	
LOADING (psf)	3x6 33 32 [18:0-3-8,Edge] SPACING-	2-0-0 CSI. 1.25 TC 0 1.25 BC 0	28 27 26 25 3x6 = 30-0-0 30-0-0	in -0.01 -0.01	23 (loc)	l/defl n/r	21 L/d	20 4x8 II	GRIP

LUMBER-

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

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

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

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

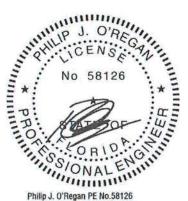
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

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

- 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.
- 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.
- 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



GIEBEIG - LOT 43 CW Job Truss Truss Type Qty Ply T25552156 2951573 T07 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055. 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:13 2021 Page 1 ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-B?ma8YHuoxDgRUvcW5hqdMOgXPYvM8opZcotnWyWhoW 22-7-8 7-7-8 5x8 = Scale = 1:61.6 8.00 12 5x8 / 5x6 < 5 1 9 16 10 3x6 = 3x4 = 2x4 || 3x4 = 2x4 || 3x6 = 4-11-8 Plate Offsets (X,Y)-[3:0-4-0,0-3-0], [5:0-3-0,0-1-8] LOADING (psf) SPACING-DEFL. 2-0-0 CSI. in (loc) l/defl 1/d **PLATES** GRIP 20.0 Plate Grip DOL TCLL 1.25 TC 0.71 -0.09 10-13 244/190 Vert(LL) >999 240 MT20 7.0 TCDL Lumber DOL -0.17 10-13 1.25 BC 0.59 Vert(CT) >999 180 BCLL 0.0 Rep Stress Incr WB 0.55 YES Horz(CT) 0.02 n/a n/a BCDI 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 143 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-1-6 oc purlins, 2x4 SP No.2 **BOT CHORD** except end verticals 2x4 SP No.3 WEBS **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 3-8 4-7

REACTIONS.

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

Max Horz 2=276(LC 12)

Max Uplift 2=-172(LC 12), 7=-198(LC 12)

Max Grav 2=903(LC 19), 7=1077(LC 19)

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

TOP CHORD 2-3=-1067/172, 3-4=-486/145

BOT CHORD 2-10=-295/938, 8-10=-295/936, 7-8=-63/349 WEBS 3-10=0/329, 3-8=-708/280, 4-8=-111/644, 4-7=-898/186

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 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.

- * 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=172, 7=198.



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

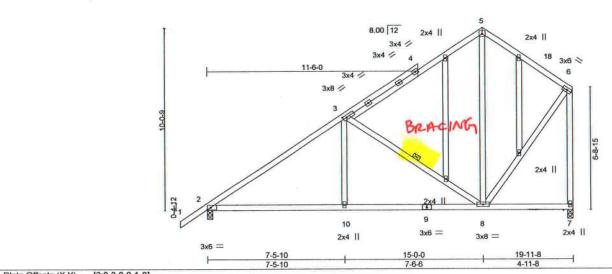
October 5,2021

MARNING - 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 MITEMS 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 slability 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/TPH 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.

GIEBEIG - LOT 43 CW Job Truss Truss Type Qty T25552157 2951573 TO7G GABLE Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:14 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-gBKzLuiWZFLW3eUo4pD3AZxs5pvo5gmyoGYQJzyWhoV 15-0-0 7-5-10 7-5-10 7-6-6 4-11-8 Scale = 1:60.9 4x4 =



LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	0.07	10-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.54	Vert(CT)	-0.14	10-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	ix-MS	III 22 M					Weight: 149 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.3 WEBS

2x4 SP No.3 **OTHERS**

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

2-10=-313/786, 8-10=-313/786 **BOT CHORD**

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.



Structural wood sheathing directly applied or 5-0-1 oc purlins,

3-8

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

except end verticals.

1 Row at midpt

Philip J. O'Regan PE No.58126 MiTek 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 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

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



Job Truss Truss Type GIEBEIG - LOT 43 CW Qty Ply T25552158 2951573 T08 Common Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:14 2021 Page 1 ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-gBKzLuIWZFLW3eUo4pD3AZxrVpvW5gqyoGYQJzyWnoV Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 15-0-0 7-6-6 22-7-8 7-7-8 Scale = 1:61.6 4x6 = 8.00 12 5x8 / 4x4 > 5 BRACINU 8 9 7 3x6 = 2x4 || 2x4 || 3x8 = 3x6 = 7-5-10 7-5-10 15-0-0 7-6-6 Plate Offsets (X,Y)-[3:0-4-0,0-3-0], [5:0-1-0,0-1-8] LOADING (psf) SPACING-CSI. DEFL. l/defl in 1/d PLATES GRIP (loc) TCLL 20.0 Plate Grip DOL 1.25 TC 0.76 Vert(LL) -0.08 >999 6-7 240 244/190 MT20 TCDL 1.25 7.0 Lumber DOL BC 0.56 -0.17 Vert(CT) >999 180 6-7 BCLL 0.0 Rep Stress Incr YES WB 0.25 0.02 Horz(CT) 6 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 132 lb FT = 20% LUMBER-BRACING-Structural wood sheathing directly applied or 3-7-9 oc purlins, TOP CHORD 2x4 SP No.2 TOP CHORD except end verticals.

BOT CHORD

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

REACTIONS.

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=276(LC 12)

Max Uplift 2=-195(LC 12), 6=-176(LC 12) Max Grav 2=915(LC 1), 6=829(LC 1)

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

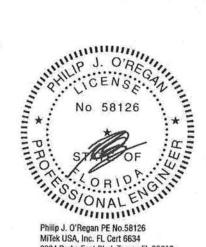
TOP CHORD 2-3=-1163/213, 3-4=-646/181, 4-5=-632/188, 5-6=-761/193

BOT CHORD 2-9=-329/918, 7-9=-329/917

WERS 3-9=0/311, 3-7=-586/281, 4-7=-42/335, 5-7=-109/497

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 22-5-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL =1 60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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=195, 6=176.



Rigid ceiling directly applied or 9-11-10 oc bracing.

1 Row at midpt

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

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 2951573 T09 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:16 2021 Page 1 Lake City, FL - 32055, ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-caSjmaJn5sbElyeBBEFXF_0BmdVYZZGFFa1XOryWhoT 17-4-0 22-7-8 5-3-8 Scale = 1:71.0 4x4 = 8.00 12 3x6 > 20 5x8 / 3x6 <> 5-3-12 10 0-0-11 12 7x10 / 2x4 || 3x8 = 98 4x4 = 3x6 = 2x4 || 2x4 || 2x4 11 5x12 = [2:0-5-0,0-4-0], [3:0-3-0,Edge] Plate Offsets (X,Y)-DEFL PLATES GRIP LOADING (psf) SPACING-2-0-0 CSI in (loc) I/defl 1/d 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.71 Vert(LL) 0.15 2-12 >999 240 MT20 TCDL 7.0 Lumber DOL 1 25 BC 0.85 Vert(CT) -0.26 2-12 >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% Weight: 177 lb BCDL 10.0 Matrix-MS BRACING-LUMBER-TOP CHORD 2x4 SP No.2 *Except* TOP CHORD Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.

BOT CHORD

WEBS

1-3: 2x6 SP M 26

BOT CHORD 2x4 SP No 2 *Except*

2-13,2-10: 2x6 SP No.2, 5-8: 2x4 SP No.3

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

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.

- * 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 (it=lb) 1=157, 7=171.



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

10-0-0 oc bracing: 8-10

1 Row at midpt

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 T25552160 2951573 T10 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:17 2021 Page 1 ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-4m05zvKPsAj5w6DNlxmmoCZMR0w?lxxOUEm4wlyWhoS 1-6-0 0-11-9 Scale = 1:77.9 8.00 12 3x6 > 5 25 5x6 > 6 8x10 / 04-12 14 13 14-0-8 3x8 = 11 10 9 3x4 II 3x6 = 2x4 || 4x4 = 3x6 = 2x4 || 5x8 = 2x4 || Plate Offsets (X,Y)-[2:0-1-3,0-4-4], [3:0-3-0,Edge], [6:0-3-0,0-3-0], [7:0-2-3,Edge], [12:0-6-0,0-2-12] LOADING (psf) SPACING-2-0-0 CSI DEFL in I/defl L/d **PLATES** GRIP 20.0 Plate Grip DOL TCLL 1.25 TC 0.72 Vert(LL) -0.18 2-14 >999 240 MT20 244/190 TCDL 7.0 1 25 BC Lumber DOL 0.58 Vert(CT) -0.332-14 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.61 Horz(CT) 0.22 n/a n/a BCDL Code FBC2020/TPI2014 10.0 Matrix-MS Weight: 204 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 *Except* TOP CHORD Structural wood sheathing directly applied or 3-8-2 oc purlins. 1-3: 2x6 SP M 26 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. Except: **BOT CHORD** 2x4 SP No.2 *Except* 10-0-0 oc bracing: 10-12 2-15: 2x6 SP No.2, 2-12: 2x6 SP M 26, 5-10: 2x4 SP No.3 WEBS 1 Row at midpt 3-13 2x4 SP No.3 **WEBS** REACTIONS. (size) 1=0-3-8, 7=0-3-8 Max Horz 1=-235(LC 10) Max Uplift 1=-213(LC 12), 7=-247(LC 13)

Max Grav 1=1118(LC 1), 7=1201(LC 1)

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

TOP CHORD 2-20=-764/246, 2-3=-2042/414, 3-4=-1271/289, 4-5=-1153/309, 5-6=-1440/310,

BOT CHORD 2-15=-62/257, 2-14=-399/1739, 13-14=-401/1758, 12-13=-96/1113, 5-12=-121/486,

7-9=-146/1297

WEBS 3-14=-12/431, 3-13=-921/369, 4-13=-222/982, 5-13=-538/208, 9-12=-145/1211,

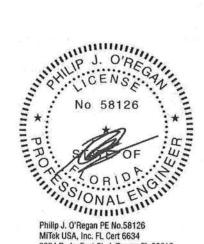
6-12=-287/211

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 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.

- 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=213, 7=247.

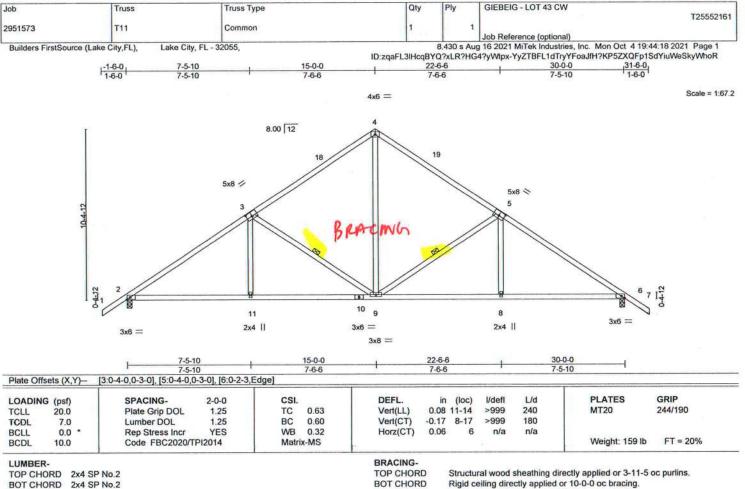


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WEBS

1 Row at midpt

5-9.3-9

WEBS

REACTIONS.

2x4 SP No.3

(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)

TOP CHORD

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1653/314, 3-4=-1136/295, 4-5=-1136/295, 5-6=-1653/314

BOT CHORD WEBS

2-11=-300/1315, 9-11=-300/1314, 8-9=-154/1297, 6-8=-154/1298 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.

- 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=252, 6=252.



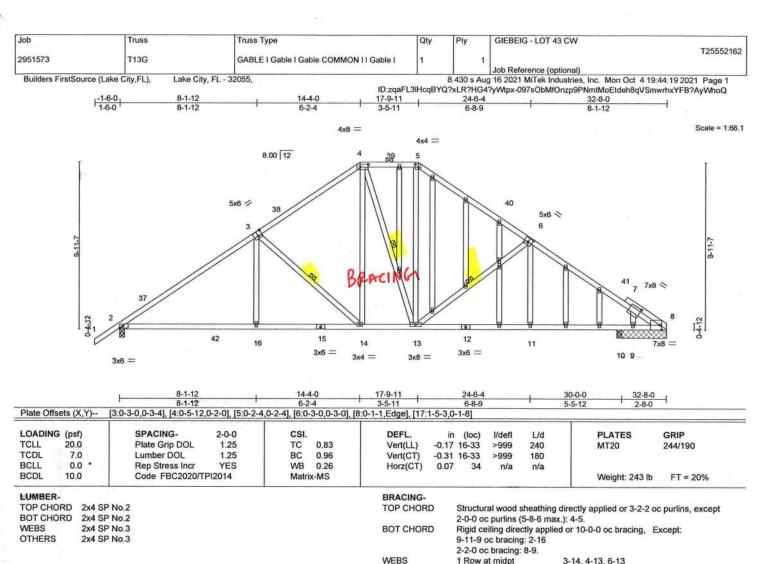
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd, Tampa FL 33610

October 5,2021

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REACTIONS. All bearings 2-11-8 except (jt=length) 2=0-3-8, 10=0-3-8.

(lb) - Max Horz 2=226(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 8, 10 except 2=-271(LC 12), 9=-345(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 10 except 2=1385(LC 19), 8=740(LC 2), 9=650(LC 20), 8=670(LC 1)

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

TOP CHORD 2-3=-1875/339, 3-4=-1336/311, 4-5=-1043/301, 5-6=-1340/304, 6-8=-1772/316

BOT CHORD 2-16=-316/1622, 14-16=-316/1621, 13-14=-119/1093, 11-13=-165/1413, 10-11=-165/1416,

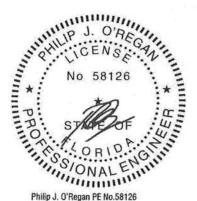
9-10=-165/1416, 8-9=-165/1416

9-10=-165/1416, 8-9=-165/1416

WEBS 3-16=0/378, 3-14=-713/265, 4-14=-139/571, 5-13=-107/526, 6-13=-565/235

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 17-9-11, Exterior(2R) 17-9-11 to 22-5-2, Interior(1) 22-5-2 to 32-8-0 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) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 10, 8 except (jt=lb) 2=271, 9=345.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

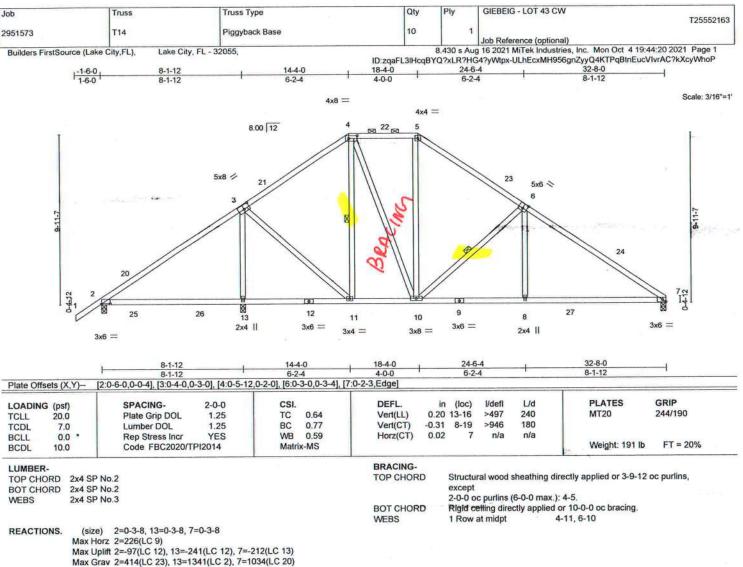
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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD

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

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

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
- 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) 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.



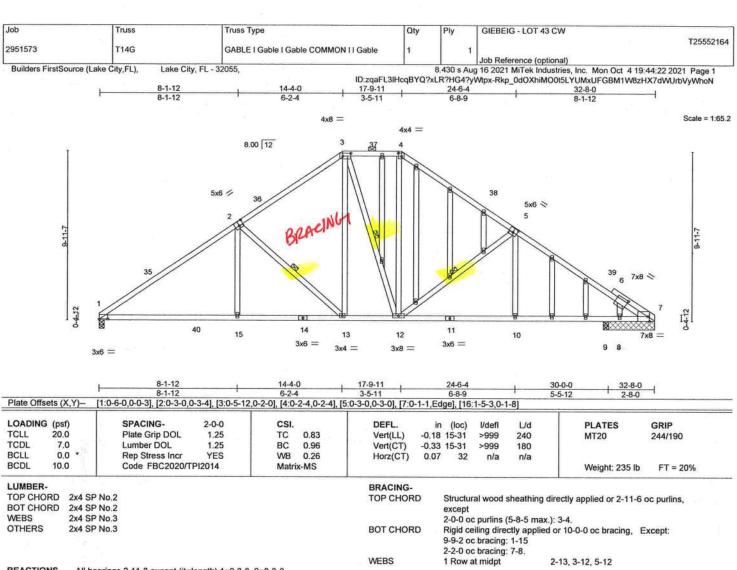
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

October 5,2021

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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





REACTIONS. All bearings 2-11-8 except (jt=length) 1=0-3-8, 9=0-3-8.

Max Horz 1=211(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 7, 9 except 1=-238(LC 12),

8=-345(LC 13)

All reactions 250 lb or less at joint(s) 9 except 1=1309(LC 19), 7=741(LC Max Grav

2), 8=650(LC 20), 7=671(LC 1)

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

TOP CHORD 1-2=-1882/346, 2-3=-1340/314, 3-4=-1046/302, 4-5=-1343/306, 5-7=-1775/317 1-15=-323/1633, 13-15=-323/1632, 12-13=-121/1096, 10-12=-167/1415, 9-10=-166/1418,

BOT CHORD 8-9=-166/1418, 7-8=-166/1418

WEBS 2-15=0/380, 2-13=-724/272, 3-13=-141/575, 4-12=-108/527, 5-12=-565/235

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B: Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-3-3, Interior(1) 3-3-3 to 14-4-0, Exterior(2E) 14-4-0 to 17-9-11, Exterior(2R) 17-9-11 to 22-5-2, Interior(1) 22-5-2 to 32-8-0 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) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.

7) Gable studs spaced at 2-0-0 oc.

- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 9, 7 except
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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October 5,2021

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Qty GIEBEIG - LOT 43 CW Truss Type Job Truss 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 Lake City, FL - 32055, Builders FirstSource (Lake City.FL). ID:zqaFL3IHcqBYQ?xLR?HG4?yWlpx-vwNMEzPAS0UFe1gX6CtA1TpSbR?5inAHsADO8xyWhoM 14-2-0 1-6-0 Scale = 1:30.6 4x4 = 3 8.00 12 0-4-12 14 6 2x4 || 3x6 = 3x6 = 12-8-0 Plate Offsets (X,Y)-[4:0-2-3,Edge] LOADING (psf) SPACING-2-0-0 DEFL I/defl PLATES GRIP (loc) 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 Lumber DOL 1.25 BC 0.40 Vert(CT) -0.08 6-9 >999 180 7.0 BCLL 0.0 Rep Stress Incr YES WB 0.11 Horz(CT) 0.00 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 53 lb FT = 20%LUMBER-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.

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

WEBS

REACTIONS.

2x4 SP No.3

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

TOP CHORD

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

3-6=0/291 WEBS

NOTES-

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

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

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

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



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ANSITPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job Truss Truss Type Qty GIEBEIG - LOT 43 CW Ply T25552166 2951573 T15G Common Supported Gable Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:24 2021 Page 1 ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-N6xIRJPoDJc6GAFjfvOPagLhOrR2RFcQ5qzygOyWhoL 14-2-0 Scale = 1:29.2 4x4 = 2x4 || 7 2x4 || 8.00 12 3x10 || 9 3x10 || 0-4-12 1412 15 16 13 12 4x8 | 4x8 || 2x4 || 2x4 || 2x4 || 2x4 || 2x4 || 12-8-0 Plate Offsets (X,Y)-[2:0-3-8,Edge], [10:0-3-8,Edge]

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

20.0

7.0

0.0

10.0

BRACING-

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

in

-0.01

-0.01

0.00

(loc)

11

11

10

l/defl

n/r

n/r

n/a

L/d

120

120

n/a

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.

PLATES

Weight: 71 lb

MT20

REACTIONS. All bearings 12-8-0.

(lb) - Max Horz 2=107(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12

Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

1.25

1.25

YES

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.

SPACING-

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 6-4-0, Corner(3R) 6-4-0 to 9-4-0, Exterior(2N) 9-4-0 to 14-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

BC

WB 0.03

Matrix-S

0.16

0.04

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 16, 13, 12.



GRIP

244/190

FT = 20%

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



GIEBEIG - LOT 43 CW Truss Type Qty Ply Job Truss T25552167 Common Girder 2951573 T16 2 Job Reference (optional)
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:25 2021 Page 1 Lake City, FL - 32055 Builders FirstSource (Lake City,FL), ID:zqaFL3iHcqBYQ?xLR?HG4?yWtpx-rlU7ffQQzdkztKqwDdve6uurSFkLAXTaJUiVCqyWhoK 9-2-5 12-8-0 2-10-5 Scale = 1:27.8 4x6 || 3 8.00 12 3x6 / 3x6 <> 14 15 16 13 6 8 7 3x8 II 7x8 = 3x8 || 4x8 = 4x8 3-5-11 [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] Plate Offsets (X,Y)-PLATES GRIP SPACING-2-0-0 CSI DEFL I/defi 1/d LOADING (psf) MT20 244/190 Plate Grip DOL 1.25 TC 0.20 Vert(LL) -0.05 >999 240 TCLL 20.0 Lumber DOL 1.25 BC 0.23 Vert(CT) -0.08 6-7 >999 180 TCDL 7.0 Rep Stress Incr NO WB 0.76 Horz(CT) 0.02 5 n/a n/a BCLL 0.0 Weight: 165 lb FT = 20% Code FBC2020/TPI2014 Matrix-MS BCDL 10.0 BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins. TOP CHORD 2x4 SP No.2 Rigid ceiling directly applied or 10-0-0 oc bracing. **BOT CHORD** 2x8 SP 2400F 2.0E BOT CHORD 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. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

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

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

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

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

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

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

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

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) 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



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October 5,2021

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



Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 43 CW	
2951573	T16	Common Girder	1	2	Job Reference (optional)	T25552167
Builders FirstSour	rce (Lake City,FL), Lake	City, FL - 32055,	ID:zqaFL3IHc	8.430 s Ai	ug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:4 PHG4?yWtpx-rIU7ffQQzdkztKqwDdve6uurSFkLA	

LOAD CASE(S) Standard

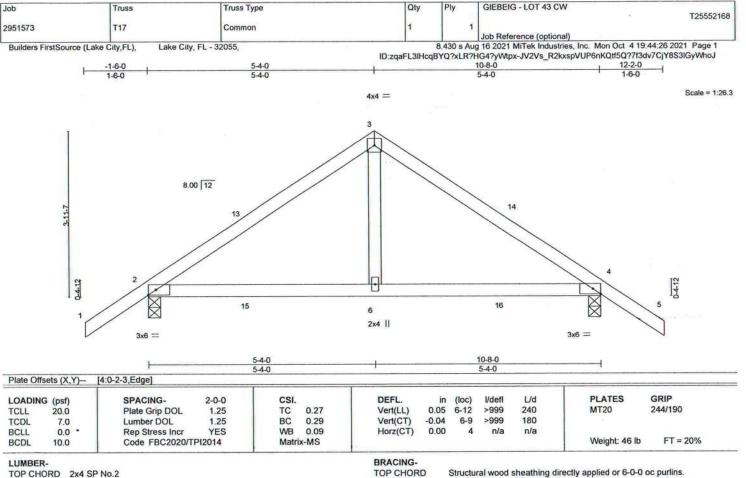
Uniform Loads (plf)

Vert: 1-3=-54, 3-5=-54, 1-5=-20

Concentrated Loads (lb)

Vert: 7=-1088(F) 12=-1089(F) 13=-1088(F) 14=-1088(F) 15=-1088(F) 16=-1088(F)





BOT CHORD

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

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

BOT CHORD 2x4 SP No.3 WEBS

REACTIONS.

(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)

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

TOP CHORD 2-3=-455/455, 3-4=-455/455 2-6=-264/318, 4-6=-264/318 **BOT CHORD**

3-6=-325/242 WEBS

NOTES-

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

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

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

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



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October 5,2021

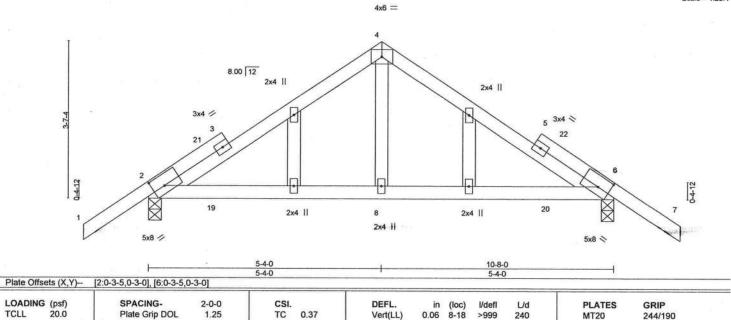
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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply GIEBEIG - LOT 43 CW T25552169 2951573 T17G GABLE Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:27 2021 Page 1 ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-nhct4KSgVE_g7e_IL2y6BJz9I2PqeaVsnoBcHiyWhoI 10-8-0 5-4-0 12-2-0

Scale = 1:25.4



Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.05 8-18

-0.01

>999

2 n/a 180

n/a

Rigid ceiling directly applied or 9-4-10 oc bracing.

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

LUMBER-

TCLL

TCDI

BCLL

BCDL

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

7.0

00

10.0

REACTIONS.

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=-93(LC 10)

Max Uplift 2=-114(LC 12), 6=-114(LC 13) Max Grav 2=473(LC 1), 6=473(LC 1)

Lumber DOL

Rep Stress Incr

Code FBC2020/TPI2014

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

TOP CHORD 2-4=-439/559, 4-6=-439/559 **BOT CHORD** 2-8=-349/332, 6-8=-349/332

WEBS 4-8=-377/234

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 5-4-0, Corner(3R) 5-4-0 to 8-4-0, Exterior(2N) 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

BC

WB

Matrix-MS

0.29

0.09

- 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.

1.25

YES

- * 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=114, 6=114.



Weight: 55 lb

FT = 20%

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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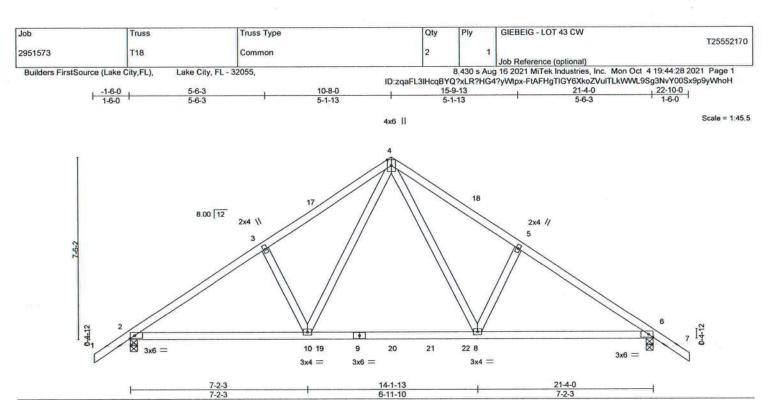


Plate Offsets (X,Y)-[6:0-2-3,Edge] L/d PLATES GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL (loc) I/defl 8-16 MT20 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.30 Vert(LL) 0.10 >999 240 BC. >999 180 TCDL 7.0 Lumber DOL 1.25 0.54 Vert(CT) -0.138-10 BCLL 0.0 Rep Stress Incr YES WB 0.61 Horz(CT) 0.03 6 n/a n/a Weight: 110 lb FT = 20% Code FBC2020/TPI2014 BCDL 10.0 Matrix-MS

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

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.

- 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 (it=lb) 2=189, 6=189.



Structural wood sheathing directly applied or 5-1-6 oc purlins.

Rigid ceiling directly applied or 7-1-0 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

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

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



Job Truss Truss Type Qty Ply GIEBEIG - LOT 43 CW T25552171 2951573 T18G GABLE Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Oct 4 19:44:30 2021 Page 1 ID:zqaFL3IHcqBYQ?xLR?HG4?yWtpx-CGI0iMUZo9MF_5jt0AVppxbf1GPYroUJTmQGu1yWnoF 10-8-0 21-4-0 5-6-3 1-6-0 15-9-13 5-1-13 4x6 || Scale: 1/4"=1" 5 41 8.00 12 3x4 / 3x4 / 42 43 10 3x4 = 17 5x8 > 16 15 14 13 12 5x8 / 3x6 = 10-11-8 3-9-5 Plate Offsets (X,Y)-[2:0-3-5,0-3-0], [5:0-2-0,0-0-0], [8:0-3-5,0-3-0] LOADING (psf) SPACING-CSI DEFI 2-0-0 l/defl L/d **PLATES** GRIP (loc) 20.0 TCLL Plate Grip DOL 0.40 1.25 TC Vert(LL) 0.09 10-39 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1 25 BC. 0.35 Vert(CT) -0.11 10-39 >999 180

LUMBER-

BCLL

BCDL

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

0.0

10.0

BRACING-

Horz(CT)

0.00

8

n/a

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

Weight: 164 lb

FT = 20%

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

n/a

REACTIONS. All bearings 10-11-8 except (jt=length) 8=0-3-8, 11=0-3-8, 11=0-3-8.

Code FBC2020/TPI2014

Rep Stress Incr

Max Horz 2=-171(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 17, 11 except 8=-148(LC 13), 14=-246(LC 12)

YES

Max Grav All reactions 250 lb or less at joint(s) 2, 13, 15, 16, 17, 11, 11, 2 except 8=563(LC 2), 14=741(LC

WB 0.65

Matrix-MS

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

TOP CHORD

5-6=-477/409, 6-8=-547/363

BOT CHORD

8-10=-254/453

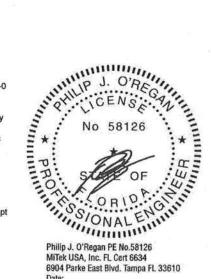
WEBS

5-10=-455/488, 6-10=-311/198, 5-14=-568/329, 4-14=-272/192

NOTES-

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

- 2) Wind: ASCE 7-16; Vuit=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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 17, 11, 2 except (it=lb) 8=148, 14=246.



6904 Parke East Blvd. Tampa FL 33610

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 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

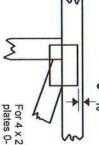


Symbols

PLATE LOCATION AND ORIENTATION



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



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

00

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

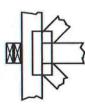
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

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



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:

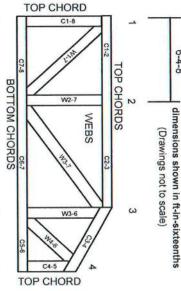
National Design Specification for Metal Plate Connected Wood Truss Construction

Design Standard for Bracing.

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

DSB-89: BCSI:

Numbering System



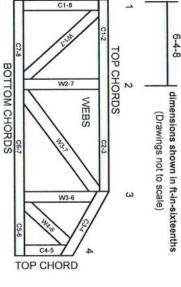
JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

ICC-ES Reports:

section 6.3 These truss designs rely on lumber values



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



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

PRODUCT CODE APPROVALS

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

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

established by others. Lumber design values are in accordance with ANSI/TPI 1

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General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- 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
- ω Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- 4 designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building
- Cut members to bear tightly against each other

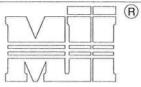
CT

- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication
- use with fire retardant, preservative treated, or green lumber. Unless expressly noted, this design is not applicable for
- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 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
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. 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.

T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

MII-T-BRACE 2

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc.

Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

1	Nailing Pattern	
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.

Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)

// /	Nails
	SPACING
WEB \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	+ -
WED /	
	T-BRACE
Nails Section Detail	
T-Brace	
Web	

Nails	
Web	I-Brace
Nails	

		Brace Size for One-Ply Truss					
	Specified Rows of La	Continuous iteral Bracing					
Web Size	1	2					
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace					
2x6	2x6 T-Brace	2x6 I-Brace					
2x8	2x8 T-Brace	2x8 I-Brace					

	Brace Size for Two-Ply Truss				
	Specified Rows of La	Continuous iteral Bracing			
Web Size	1	2			
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace			
2x6	2x6 T-Brace	2x6 I-Brace			
2x8	2x8 T-Brace	2x8 I-Brace			

T-Brace / I-Brace must be same species and grade (or better) as web member.



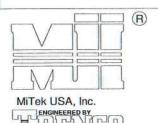
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

SCAB-BRACE DETAIL

MII-SCAB-BRACE

MiTek USA, Inc.

Page 1 of 1

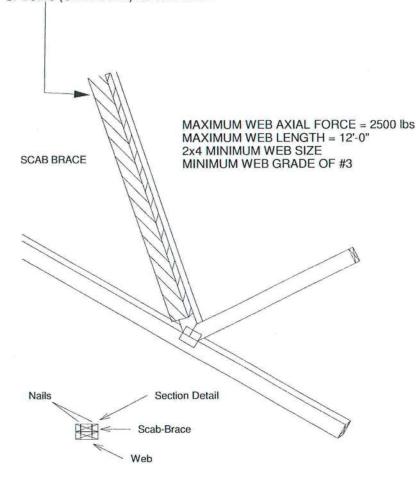


Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.

Scab must cover full length of web +/- 6".

*** THIS DETAIL IS NOT APLICABLE WHEN BRACING IS *** REQUIRED AT 1/3 POINTS OR I-BRACE IS SPECIFIED.

APPLY 2x___ SCAB TO ONE FACE OF WEB WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. SCAB MUST BE THE SAME GRADE, SIZE AND SPECIES (OR BETTER) AS THE WEB.



Scab-Brace must be same species grade (or better) as web member.

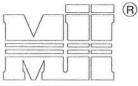


Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

STANDARD REPAIR TO REMOVE END **VERTICAL (RIBBON NOTCH VERTICAL)**

MII-REP05

MiTek USA, Inc. Page 1 of 1

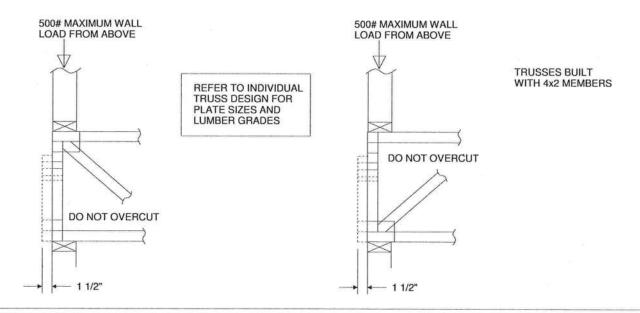


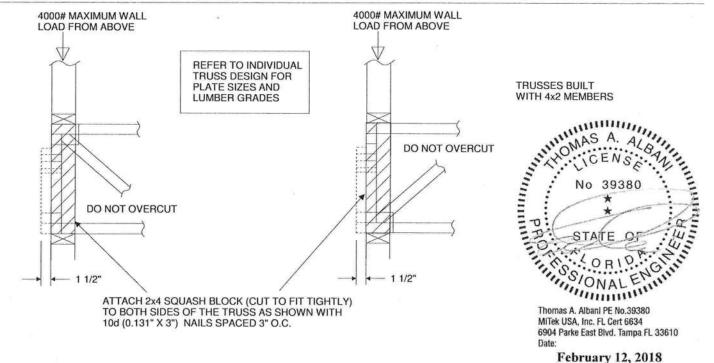
MiTek USA, Inc.

ENGINEERED BY

- 1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
- 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

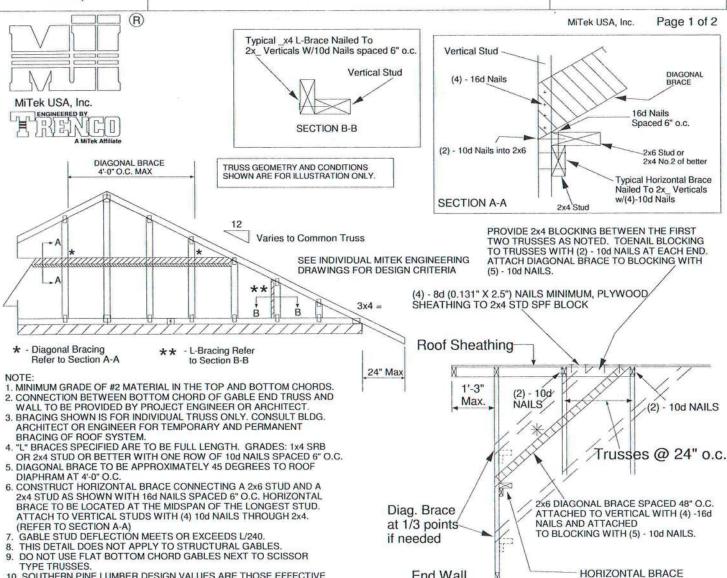
 3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
- 4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.
 5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X_ORIENTATION ONLY.
 6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.





Standard Gable End Detail

MII-GE130-D-SP



End Wall

Minimum Stud Size	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
Species and Grade			Maximu	m Stud Le	ngth	
2x4 SP No. 3 / Stud	12" O.C.	3-9-13	4-1-1	5-9-6	7-1-3	11-5-7
2x4 SP No. 3 / Stud	16" O.C.	3-5-4	3-6-8	5-0-2	6-10-8	10-3-13
2x4 SP No. 3 / Stud	24" O.C.	2-9-11	2-10-11	4-1-1	5-7-6	8-5-1

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE

NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE D ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH ASCE 7-10 160 MPH **DURATION OF LOAD INCREASE: 1.60**

06-01-13 BY SPIB/ALSC.

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



(SEE SECTION A-A)

Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610



Standard Gable End Detail

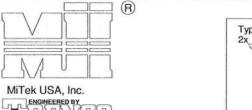
MII-GE130-SP

Page 1 of 2

10d NAILS

@ 24" o.c.

MiTek USA, Inc.



Typical _x4 L-Brace Nailed To Verticals W/10d Nails spaced 6" o.c. Vertical Stud SECTION B-B

DIAGONAL BRACE 4'-0" O.C. MAX TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA ** 3x4 =Diagonal Bracing - L-Bracing Refer Refer to Section A-A to Section B-B

Vertical Stud DIAGONAL (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x_Verticals w/(4)-10d Nails SECTION A-A

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS

(4) - 8d (0.131" X2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND

WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.

3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY, CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT

BRACING OF ROOF SYSTEM.

4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB
OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.

5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

DIAPHRAM AT 4'-0" O.C.

6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)

GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES

DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
 11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND

NAILS DESIGNATED 16d ARE (0.131" X 3.5")

24" Max	M M
1'-3 Ma:	V (2) - 100 X
- Ivia	NAILS (2) - 10d NAILS
	/*
	Trusses @ 24" o.d
,	
/	
Diag. Brace	2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d
at 1/3 points	NAILS AND ATTACHED TO BLOCKING WITH (5) - 10d NAILS.
if needed	TO DESCRIBE WITH (5) - TO WALES.
End Wall	HORIZONTAL BRACE
z.id Waii	(SEE SECTION A-A)
	1

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS			
and Grade			Maximum Stud Length						
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6			
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1			
2x4 SP No. 3 / Stud	24" O.C.	3-0-10	3-1-12	4-5-6	6-1-5	9-1-15			

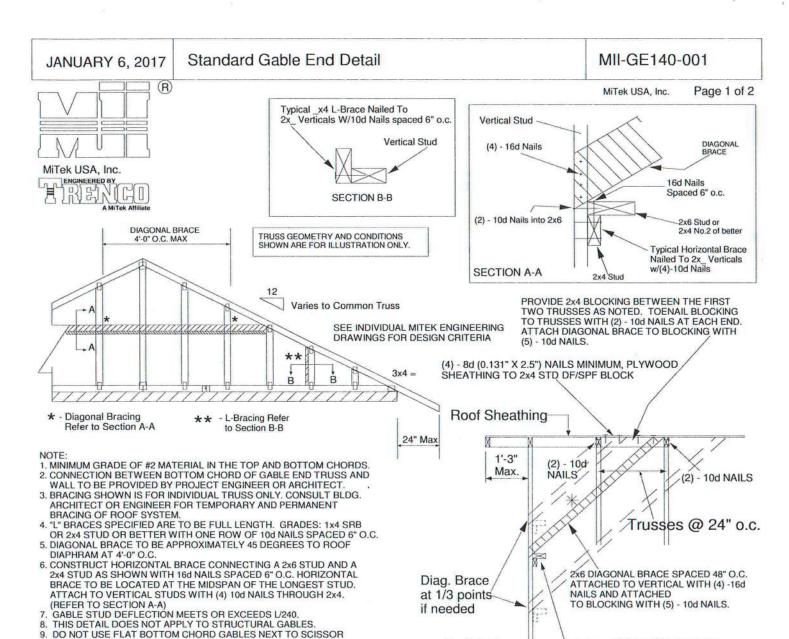
Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH ASCE 7-10 160 MPH DURATION OF LOAD INCREASE: 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS



6904 Parke East Blvd. Tampa FL 33610



End Wall

Minimum Stud Size	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS		
Species and Grade		Maximum Stud Length						
2x4 DF/SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4		
2x4 DF/SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11		
2x4 DF/SPF Std/Stud	24" O.C.	2-8-9	2-9-8	3-11-7	5-5-2	8-1-12		

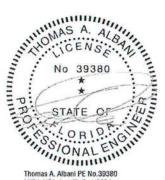
Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 140 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 DURATION OF LOAD INCREASE : 1.60

TYPE TRUSSES.

10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



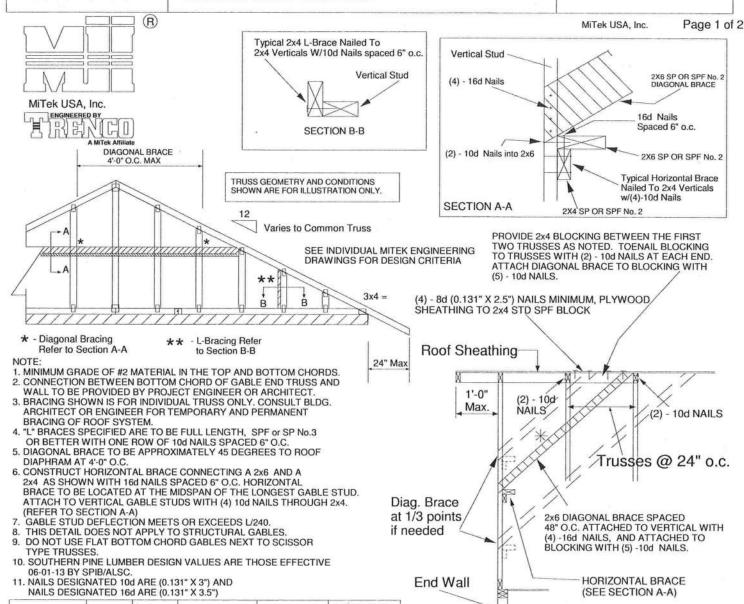
HORIZONTAL BRACE

(SEE SECTION A-A)

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Standard Gable End Detail

MII-GE170-D-SP



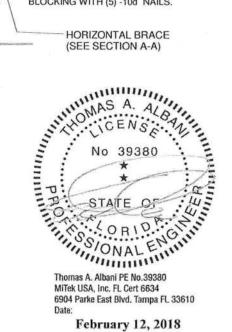
Minimum Stud Size	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
Species and Grade			Maximum St	ud Length	1/3 POINTS 11-4-4 10-2-3 8-3-13 11-11-7
2x4 SP No. 3 / Stud	12" O.C.	3-9-7	5-8-8	6-11-1	11-4-4
2x4 SP No. 3 / Stud	16" O.C.	3-4-12	4-11-15	6-9-8	10-2-3
2x4 SP No. 3 / Stud	24" O.C.	2-9-4	4-0-7	5-6-8	8-3-13
2x4 SP No. 2	12" O.C.	3-11-13	5-8-8	6-11-1	11-11-7
2x4 SP No. 2	16" O.C.	3-7-7	4-11-5	6-11-1	10-10-5
2x4 SP No. 2	24" O.C.	3-1-15	4-0-7	6-3-14	9-5-14

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D

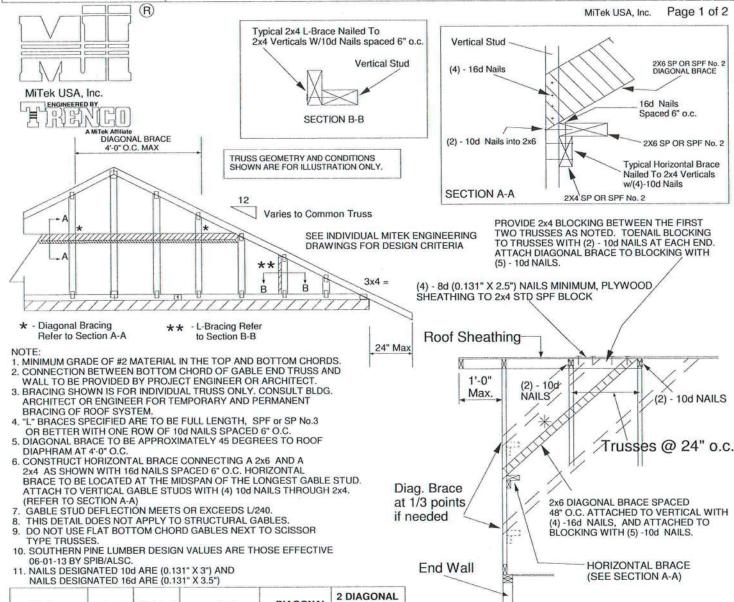
ASCE 7-10 170 MPH DURATION OF LOAD INCREASE: 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



Standard Gable End Detail

MII-GE180-D-SP



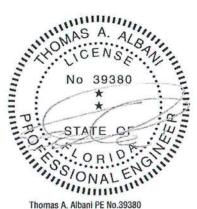
Minimum Stud Size	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
Species and Grade			Maximum St	ud Length	
2x4 SP No. 3 / Stud	12" O.C.	3-7-12	5-4-11	6-2-1	10-11-3
2x4 SP No. 3 / Stud	16" O.C.	3-2-8	4-8-1	6-2-1	9-7-7
2x4 SP No. 3 / Stud	24" O.C.	2-7-7	3-9-12	5-2-13	7-10-4
2x4 SP No. 2	12" O.C.	3-10-0	5-4-11	6-2-1	11-6-1
2x4 SP No. 2	16" O.C.	3-5-13	4-8-1	6-2-1	10-5-7
2x4 SP No. 2	24" O.C.	3-0-8	3-9-12	6-1-1	9-1-9

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

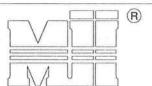
MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D ASCE 7-10 180 MPH

DURATION OF LOAD INCREASE: 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:



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MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C **ASCE 7-10**

DURATION OF LOAD INCREASE: 1.60

DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.



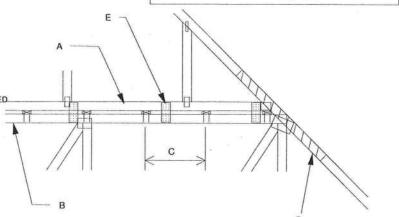
CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH. 2 X X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF

-2 X _ X 4-0* SCAB, SIZE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED. ON INTERSECTION, WITH (2) ROWS OF (0.131* X 3*) NAILS @ 4* O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:

1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR

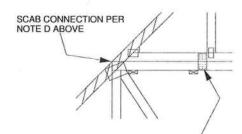
WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.

E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

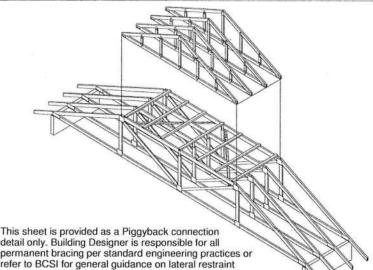


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.

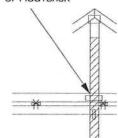


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

VERTICAL WEB TO EXTEND THROUGH **BOTTOM CHORD** OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.

AS SHOWN IN DETAIL.

ATTACH 2 x _ x 4'-0" SCAB TO EACH FACE OF

TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS

SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH

VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.)

(MINIMUM 2X4)
THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.

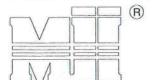
FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS. NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS. CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.



STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT 7 - 10





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A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.

A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
SHALL BE CONNECTED TO EACH PURLIN
WITH (2) 0(0.131" X 3.5") TOE-NAILED.

B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
D - 2 X __ X 4"-0" SCAB, SIZE TO MATCH TOP CHORD OF
PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON
INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C.
SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING
IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:

1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR

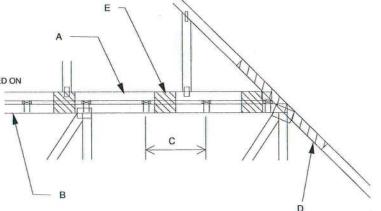
WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 It.

PIGGYBACK SPAN OF 12 II.

E -FOR WIND SPEED IN THE RANGE 126 MPH - 160 MPH ADD 9" x 9" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)

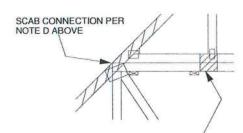
MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C **ASCE 7-10 DURATION OF LOAD INCREASE: 1.60** DETAIL IS NOT APPLICABLE FOR TRUSSES

TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

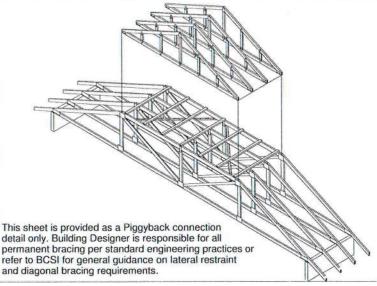


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

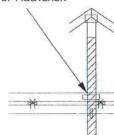
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



7" x 7" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL

ATTACH 2 X ___ x 4"-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.)

(MINIMUM 2X4)
THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.

FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS. CONCENTRATED LOAD MUST BE APPLIED TO BOTH

THE PIGGYBACK AND THE BASE TRUSS DESIGN.

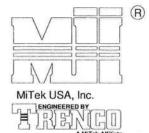


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STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES

MII-REP01A1

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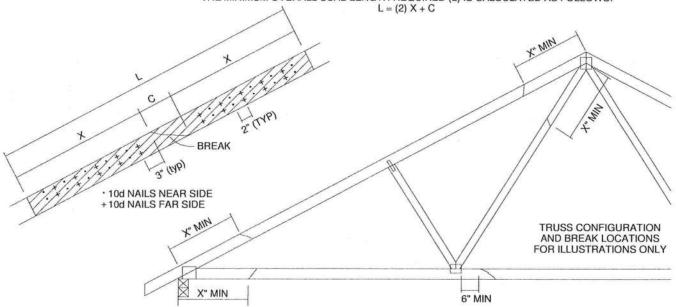


TOTAL NUMBER OF NAILS EACH SIDE OF BREAK * X										
		433.	S	SP		DF		PF	HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

* DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS) THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:



THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

DO NOT USE REPAIR FOR JOINT SPLICES

- THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED
- REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.

 ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLING REPAIR

 AND HELD IN PLACE DURING APPLICATION OF REPAIR.
- THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID THE END DISTANCE, EDGE DISTANCE AND SPACING OF MAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
 WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
 THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x_ ORIENTATION ONLY.
 THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



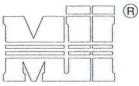
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LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP

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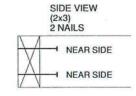


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- 1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.
- 2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
- 3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

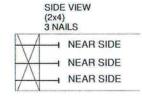


	DIAM.	SP	DF	HF	SPF	SPF-S
3.5" LONG	.131	88.0	80.6	69.9	68.4	59.7
	.135	93.5	85.6	74.2	72.6	63.4
	.162	108.8	99.6	86.4	84.5	73.8
3.25" LONG	.128	74.2	67.9	58.9	57.6	50.3
	.131	75.9	69.5	60.3	59.0	51.1
	.148	81.4	74.5	64.6	63.2	52.5

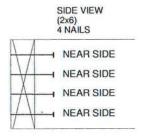
VALUES SHOWN ARE CAPACITY PER TOE-NAIL APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15: 3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

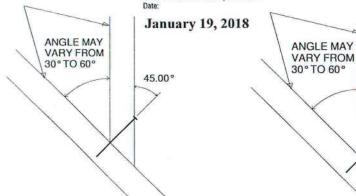


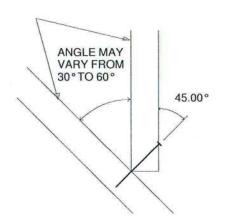
45.00°





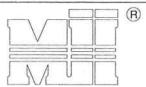
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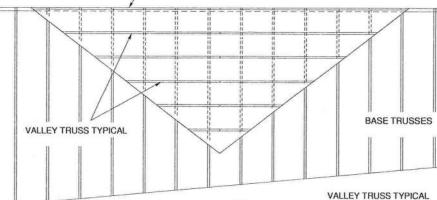
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GABLE END, COMMON TRUSS OR GIRDER TRUSS

GENERAL SPECIFICATIONS

- 1. NAIL SIZE 10d (0.131" X 3")
- 2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT DO NOT USE DRYWALL OR DECKING TYPE SCREW
- 3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 6. NAILING DONE PER NDS 01

7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



VALLEY TRUSS TYPICAL

GABLE END, COMMON TRUSS OR GIRDER TRUSS

SEE DETAIL
A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 10d NAILS 6" O.C.

> ATTACH 2x4 CONTINUOUS NO.2 SP TO THE ROOF W/ TWO USP WS3 (1/4" X 3") WOOD SCREWS INTO EACH BASE TRUSS.

DETAIL A (NO SHEATHING) N.T.S. WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING EXPOSURE C
WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY) MINIMUM REDUCED DEAD LOAD OF 6 PSF ON THE TRUSSES



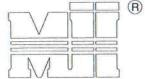
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TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2

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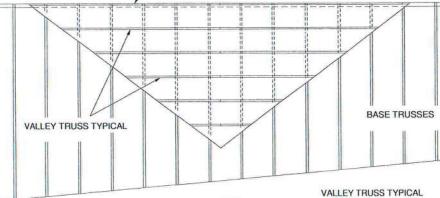


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GABLE END, COMMON TRUSS OR GIRDER TRUSS

GENERAL SPECIFICATIONS

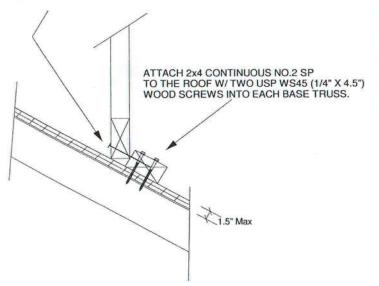
- 1. NAIL SIZE 10d (0.131" X 3") 2. WOOD SCREW = 4.5" WS45 USP OR EQUILIVANT 3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
- 4. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE TO BASE TRUSSES AS PER DETAIL A
- 5. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 6. NAILING DONE PER NDS-01
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



GABLE END, COMMON TRUSS OR GIRDER TRUSS 12 SEE DETAIL A BELOW (TYP.)

ON THE TRUSSES

SECURE VALLEY TRUSS W/ ONE ROW OF 10d NAILS 6" O.C.



WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING EXPOSURE C WIND DURATION OF LOAD INCREASE: 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF

No 39380

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STATE O

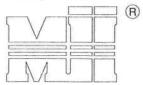
OR 10

Thomas A. Albani PE No.35 CENSE

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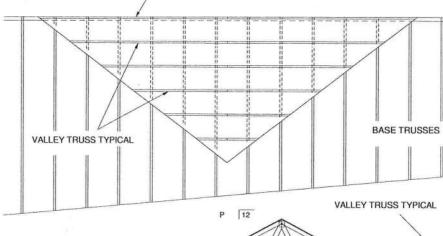
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GABLE END, COMMON TRUSS OR GIRDER TRUSS

GENERAL SPECIFICATIONS

- NAIL SIZE 16d (0.131" X 3.5")
 INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 5. NAILING DONE PER NDS 01
- 6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
- 7. ALL LUMBER SPECIES TO BE SP.

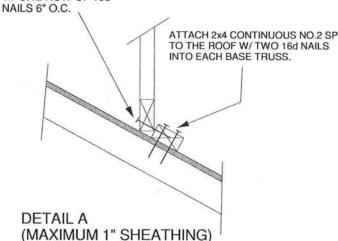


GABLE END, COMMON TRUSS OR GIRDER TRUSS

SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 16d

N.T.S.



WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-96, ASCE 7 EXPOSURE C OR B WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 60 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY) MINIMUM REDUCED DEAD LOAD OF 4.2 PSF

ON THE TRUSSES

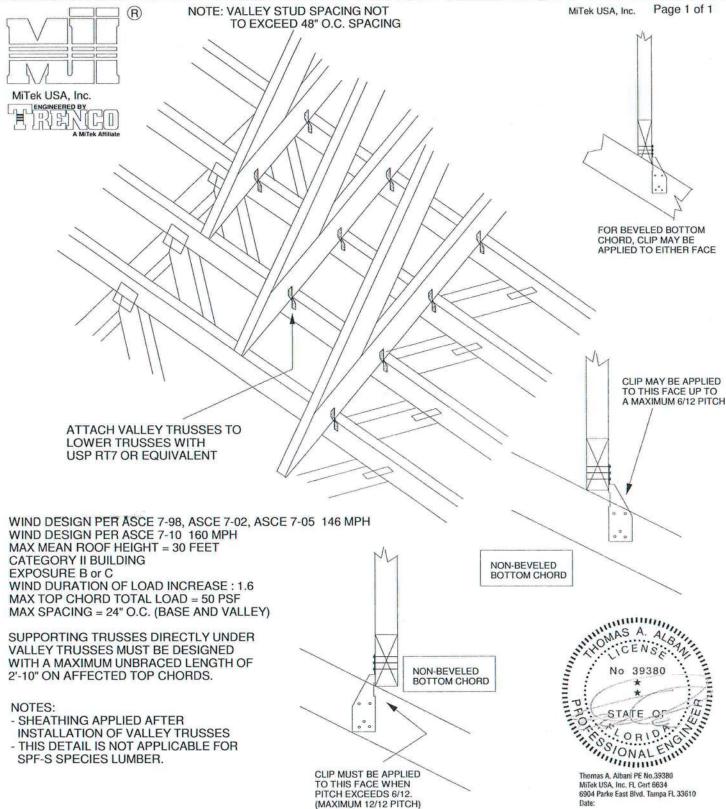
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TRUSSED VALLEY SET DETAIL (HIGH WIND VELOCITY)

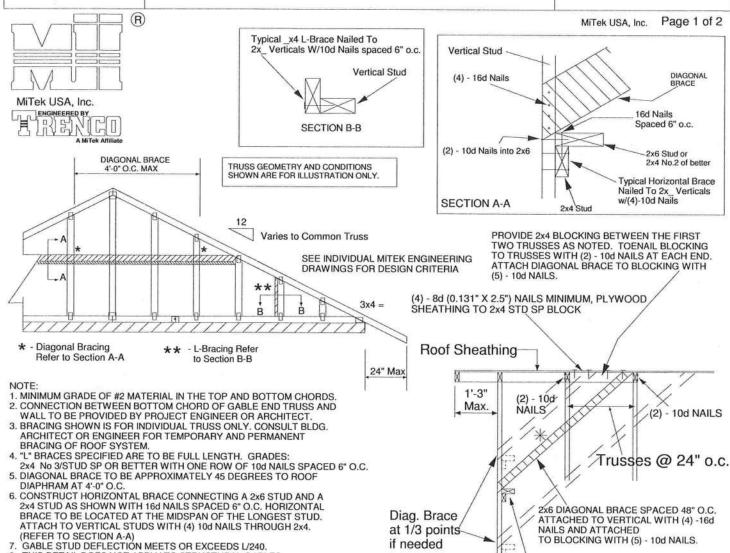
MII-VALLEY





Standard Gable End Detail

MII-GE146-001



End Wall

8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

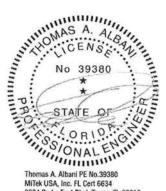
Minimum Stud Size Species	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
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Maximum Stud Length and Grade 2x4 SP No 3/Stud 12" O.C. 3-11-3 6-8-0 7-2-14 11-9-10 7-1-13 10-8-11 16" O.C. 3-6-14 5-9-5 2x4 SP No 3/Stud 2x4 SP No 3/Stud 24" O.C. 9-4-7 3-1-8 4-8-9 6-2-15

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 146 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 DURATION OF LOAD INCREASE: 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS



HORIZONTAL BRACE

(SEE SECTION A-A)

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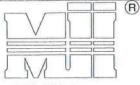
OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B

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Page 1 of 1



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ENGINEERED BY

TRUSS CRITERIA:

LOADING: 40-10-0-10 **DURATION FACTOR: 1.15** SPACING: 24" O.C. TOP CHORD: 2x4 OR 2x6 PITCH: 4/12 - 12/12

HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL

END BEARING CONDITION

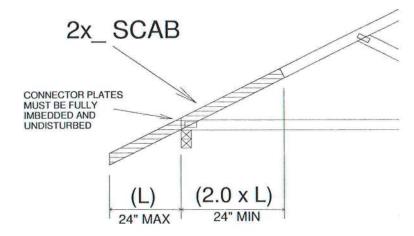
NOTES:

1. ATTACH 2x_ SCAB (MINIMUM NO.2 GRADE SPF, HF, SP, DF) TO ONE FACE OF TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.

2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH

AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.

3. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.



IMPORTANT

This detail to be used only with trusses (spans less than 40') spaced 24" o.c. maximum and having pitches between 4/12 and 12/12 and total top chord loads not exceeding 50 psf. Trusses not fitting these criteria should be examined individually.

REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



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LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

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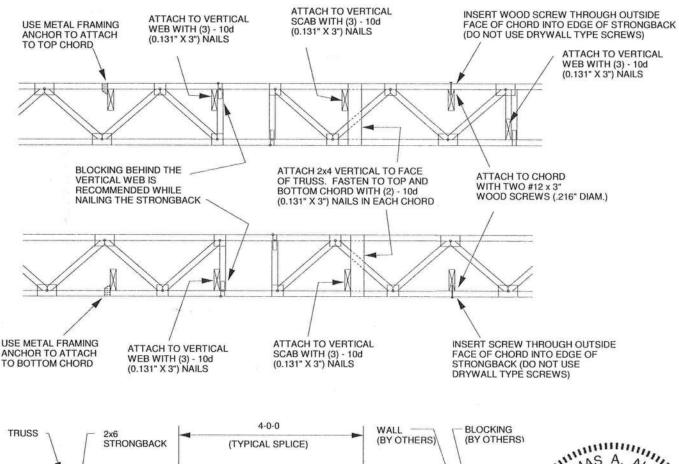
Page 1 of 1

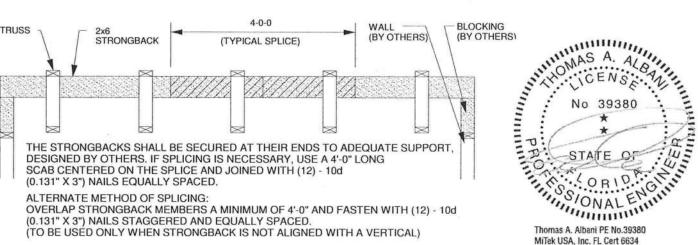


TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS. 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END. CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.





6904 Parke East Blvd. Tampa FL 33610 February 12, 2018

Date:

