



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

RE: 2797531 - SIMQUE - LOT 55 PLL

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: Aaron Simque Homes Project Name: Spec House Model: 1995 A

Subdivision: The Preserve at Laurel Lake

Lot/Block: 55 Address: TBD, TBD City: Columbia Cty

State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name:

License #:

Address:

City:

State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2020/TPI2014

Design Program: MiTek 20/20 8.4

Truss Name

Wind Code: ASCE 7-16

Wind Speed: 130 mph

Roof Load: 37.0 psf

Floor Load: N/A psf

This package includes 23 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.

T23986093 T10

Seal#

23

No. 123456789111234567890	Seal# T23986071 T23986072 T23986074 T23986076 T23986077 T23986077 T23986078 T23986081 T23986081 T23986081 T23986082 T23986084 T23986085 T23986086 T23986086 T23986086 T23986088	Truss Name CJ01 CJ03 CJ05 EJ01 EJ02 EJ03 HJ08 HJ10 PB01 PB02 PB02G T01 T02 T03 T04 T05 T06 T07 T08 T08G	Date 5/18/21

WHITY BUILDING
Received Co
g for
WELLE CODY
FILE COPY A
S Code S
Compliance
(Alice Market)

Date

5/18/21

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-Jacksonville.

Truss Design Engineer's Name: Velez, Joaquin

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 co des), 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 des igns. 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.



Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

May 18,2021

SIMQUE - LOT 55 PLL Qty Job Truss Truss Type Ply T23986071 2797531 **CJ01** Jack-Open 6 1 Job Reference (optional) Builders FirstSource (Jacksonville, FL), 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 16:02:57 2021 Page 1 Jacksonville, FL - 32244. ID:RGwSt4cPREnm5p9yfgzNgAycgdx-xlP1El8cz0XLAk7JCJ98K1hvpsBsEi9jaZb_WvzGXdy 1-6-0 1-0-0 Scale = 1:9.4 7.00 12 2 0-7-5 3x4 =

1-0-0

Plate Off	fsets (X,Y)-	[2:Edge,0-1-4]										
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	0.23	Vert(LL)	0.00	7	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	0.00	7	>999	180	2010-05228-0	
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/1	PI2014	Matri	x-MP	Antonomia de la Compania del Compania de la Compania del Compania de la Compania					Weight: 6 lb	FT = 20%

LUMBER-

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

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 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=66(LC 12)

Max Uplift 3=-5(LC 1), 2=-108(LC 12), 4=-25(LC 19) Max Grav 3=8(LC 16), 2=179(LC 1), 4=27(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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=108.



Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

May 18,2021



Qty SIMQUE - LOT 55 PLL Ply Job Truss Truss Type T23986072 6 **CJ03** 2797531 Jack-Open Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 16:02:57 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGwSt4cPREnm5p9yfgzNgAycgdx-xlP1El8cz0XLAk7JCJ98K1hvDs9dEi9jaZb_WvzGXdy 1-6-0 Scale = 1:15.3 7.00 12

7.00 12 8 9 4 3x4 =

> 3-0-0 3-0-0

> > BRACING-

TOP CHORD

BOT CHORD

Plate Offs	sets (X,Y)-	[2:Edge,0-1-4]										
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	0.21	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.01	4-7	>999	180	20000000	
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	armosovi sociali.					Weight: 12 lb	FT = 20%

LUMBER-

REACTIONS.

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

D 2X4 SP NO.2

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

Max Horz 2=123(LC 12)

Max Uplift 3=-63(LC 12), 2=-92(LC 12), 4=-27(LC 9)

Max Grav 3=67(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-

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



Structural wood sheathing directly applied or 3-0-0 oc purlins.

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

Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

May 18,2021



Job Truss Truss Type SIMOUE - LOT 55 PLL Qty Ply T23986073 2797531 **CJ05** Jack-Open Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 16:02:58 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-PyzPR59EkKfCouiVl0gNtEE1ZGQpz9PsoDLX2LzGXdx 5-0-0

Scale = 1:21.0

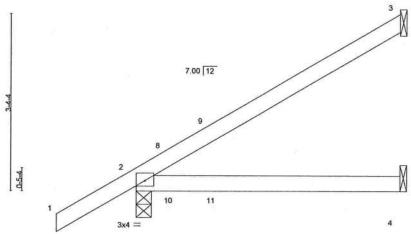


Plate Off	sets (X,Y)	[2:Edge,0-1-4]											
LOADIN	G (psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.25	CSI.	0.42	DEFL. Vert(LL)	in 0.11	(loc) 4-7	l/defl >564	L/d 240	PLATES MT20	GRIP 244/190	(in the
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	0.09	4-7	>631	180	4 2 7 7 2		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP						Weight: 19 lb	FT = 20%	

LUMBER-

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

TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or 5-0-0 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=181(LC 12)

Max Uplift 3=-116(LC 12), 2=-103(LC 12), 4=-48(LC 9) Max Grav 3=125(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-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=116, 2=103,



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

May 18,2021

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



Qty SIMQUE - LOT 55 PLL Truss Type Ply Truss Job T23986074 10 EJ01 Jack-Partial 2797531 Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 16:02:59 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-t8XofRAsVdo3Q2HiJkCcQSn5jgnGice?1t44bozGXdw 7-0-0 7-0-0 Scale = 1:26.8 7.00 12 0-5-4 12 3x4 / 7-0-0 Plate Offsets (X,Y)- [2:0-0-15,0-1-8] **PLATES** DEFL I/defl L/d LOADING (psf) SPACING-2-0-0 CSI. (loc) 244/190 240 MT20 0.32 4-7 >263 TCLL 20.0 Plate Grip DOL 1.25 TC 0.85 Vert(LL) 180 TCDL 7.0 Lumber DOL 1 25 BC 0.38 Vert(CT) 0.28 4-7 >298 0.00 -0.02 n/a BCLL 0.0 Rep Stress Incr YES WB Horz(CT) n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP M 31

10.0

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

Code FBC2020/TPI2014

Max Horz 2=230(LC 12)

Max Uplift 3=-147(LC 12), 2=-123(LC 12), 4=-72(LC 9) Max Grav 3=176(LC 19), 2=346(LC 1), 4=131(LC 3)

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

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 6-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MS

- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=147, 2=123.



Weight: 25 lb

Structural wood sheathing directly applied or 2-2-0 oc purlins.

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

FT = 20%

Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

May 18,2021



6904 Parke East Blvd. Tampa, FL 36610

Job SIMQUE - LOT 55 PLL Truss Truss Type Qty Ply T23986075 2797531 EJ02 Jack-Partial 1 Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244. 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 16:03:00 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-LK5AsnAUGxwv1BsutRjryfJK333PR3u9GXqe7EzGXdv 7-0-0 Scale = 1:26.8 7.00 12 1-0-0 0-5-4 6 2x4 | Plate Offsets (X,Y)-[3:0-0-8,0-2-5] LOADING (psf) SPACING-2-0-0 CSI DEFL in l/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.62 Vert(LL) 0.23 3-5 >360 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.58 Vert(CT) -0.263-5 >315 180 0.0 Rep Stress Incr BCLL YES WB 0.00 Horz(CT) 0.15 n/a n/a Code FBC2020/TPI2014 BCDL Matrix-MR 10.0 Weight: 27 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

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

3-6: 2x4 SP No.3

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=230(LC 12)

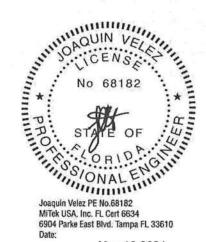
Max Uplift 4=-130(LC 12), 2=-121(LC 12), 5=-29(LC 12)

Max Grav 4=175(LC 19), 2=351(LC 1), 5=123(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ff; Cat. II; Exp C; 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 6-11-4 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 100 lb uplift at joint(s) 5 except (it=ib) 4=130, 2=121.



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

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

6904 Parke East Blvd. Tampa FL 33610

May 18,2021

🛦 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 MITEKS connectors. This design is based only upon parameters and properly damage. Fig. 19/2020 BEFORE USE.

Design valid for use only with MITEKS 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. Pracing 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

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



SIMQUE - LOT 55 PLL Job Truss Truss Type Qty Ply T23986076 9 1 2797531 **EJ03** Jack-Open Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 16:03:01 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGwSt4cPREnm5p9yfgzNgAycgdx-qWfY37B61E2mfLR4R9E4VtsaPTVIAWPIVBZBfgzGXdu -1-6-0 1-6-0 Scale = 1:21.0 2x4 || 7.00 12 0.54 6 3x4 = 2x4 || DEFL. I/defl L/d **PLATES** GRIP LOADING (psf) SPACING-2-0-0 CSI in (loc) Plate Grip DOL 1.25 TC 0.26 Vert(LL) 0.03 6-9 >999 240 MT20 244/190 20.0 TCLL -0.05 6-9 >999 180 1.25 BC 0.22 Vert(CT) Lumber DOL TCDL 7.0 WB 0.05 Horz(CT) 0.00 Rep Stress Incr YES 0.0 BCLL Code FBC2020/TPI2014 Weight: 23 lb FT = 20% Matrix-MP BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

Max Horz 2=181(LC 12)

Max Uplift 2=-97(LC 12), 6=-129(LC 12) Max Grav 2=268(LC 1), 6=195(LC 19)

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 C; 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 5-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 6=129.



Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

May 18,2021



6904 Parke East Blvd. Tampa, FL 36610 Job Truss Truss Type Qty Ply SIMQUE - LOT 55 PLL T23986077 2797531 HJ08 Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 16:03:02 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-ljDwHTCkoYAdHV?H_slJ14PiltpLvyESjrJlB6zGXdt 3-6-0 Scale = 1:20 7 2x4 || 5 4.95 12 12 2x4 > 0-3-8 0-5-4 13 14 7 3x6 =LOADING (psf) SPACING-2-0-0 CSI DEFL I/defI L/d **PLATES** GRIP TC BC TCLL 20.0 Plate Grip DOL 1.25 0.48 Vert(LL) 0.06 7-10 >999 240 MT20 244/190 TCDI 7.0 Lumber DOL 1 25 0.36 Vert(CT) -0.10 7-10 >828 180 BCLL 0.0 Rep Stress Incr NO WB 0.07 Horz(CT) 0.00 n/a Code FBC2020/TPI2014 BCDL 100 Matrix-MS Weight: 34 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x4 SP No.2 except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SP No.3 WEBS

(size) 2=0-4-9, 6=Mechanical

Max Horz 2=180(LC 26)

Max Uplift 2=-271(LC 4), 6=-206(LC 8) Max Grav 2=390(LC 1), 6=245(LC 1)

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

TOP CHORD 2-3=-340/176

BOT CHORD 2-7=-264/252 3-7=-234/252 WEBS

NOTES-

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 76 lb up at 1-6-1, 86 lb down and 76 lb up at 1-6-1, and 105 lb down and 63 lb up at 4-4-0, and 105 lb down and 63 lb up at 4-4-0 on top chord and 26 lb down and 54 lb up at 1-6-1, 26 lb down and 54 lb up at 1-6-1, and 19 lb down and 35 lb up at 4-4-0, and 19 lb down and 35 lb up at 4-4-0 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, 4-5=-54, 6-8=-20

Concentrated Loads (lb)

Vert: 14=-4(F=-2, B=-2)

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

May 18,2021

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 MT ek® 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 designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and discorporate this design into the overall building component 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 truss systems, see ANSI/TH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



SIMOUE - LOT 55 PLL Truss Type Qty Ply Truss Job T23986078 Diagonal Hip Girder 2797531 **HJ10** Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 16:03:03 2021 Page 1 Jacksonville, FL - 32244, Builders FirstSource (Jacksonville, FL), ID:RGwSt4cPREnm5p9yfgzNgAycgdx-mvmIUpDNZsIUvfaTYaGYalxrkH5oeKbbyV2lkZzGXds 9-10-1 4-6-0 Scale = 1:26.3 4.95 12 3x4 = 3 0-5-4 6 15 7 2x4 || 3x4 = 9-10-1 4-6-0 PLATES GRIP I/defl LOADING (psf) SPACING-CSI. DEFL (loc) 2-0-0 MT20 244/190 Plate Grip DOL 1.25 TC 0.59 Vert(LL) 0.11 6-7 >999 240 TCLL 20 0 BC 0.60 Vert(CT) -0.12 >999 180 Lumber DOL 1.25 TCDL 7.0 Rep Stress Incr 0.39 Horz(CT) -0.01 n/a n/a WB BCLL 0.0 NO Code FBC2020/TPI2014 Weight: 44 lb FT = 20%Matrix-MS BCDL 10.0 BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. TOP CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 6-10-12 oc bracing. 2x4 SP No.2 BOT CHORD

2x4 SP No.3 WEBS

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

Max Horz 2=230(LC 8)

Max Uplift 4=-136(LC 8), 2=-422(LC 4), 5=-287(LC 5) Max Grav 4=150(LC 1), 2=526(LC 1), 5=298(LC 1)

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

2-3=-735/546 TOP CHORD

2-7=-618/607, 6-7=-618/607 **BOT CHORD**

3-7=-147/280, 3-6=-652/664 WEBS

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

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=136, 2=422, 5=287,
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 76 lb up at 1-6-1, 86 lb down and 76 lb up at 1-6-1, 105 lb down and 63 lb up at 4-4-0, 105 lb down and 63 lb up at 4-4-0, and 136 lb down and 124 lb up at 7-1-15, and 136 lb down and 124 lb up at 7-1-15 on top chord, and 60 lb down and 54 lb up at 1-6-1, 60 lb down and 54 lb up at 1-6-1, 20 lb down and 35 lb up at 4-4-0, 20 lb down and 35 lb up at 4-4-0, and 42 lb down and 63 lb up at 7-1-15, and 42 lb down and 63 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of
- 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

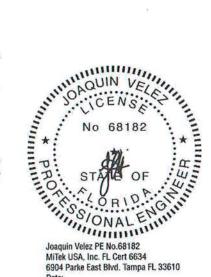
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=-4(F=-2, B=-2) 12=-74(F=-37, B=-37) 15=-57(F=-29, B=-29)



6904 Parke East Blvd. Tampa FL 33610 Date:

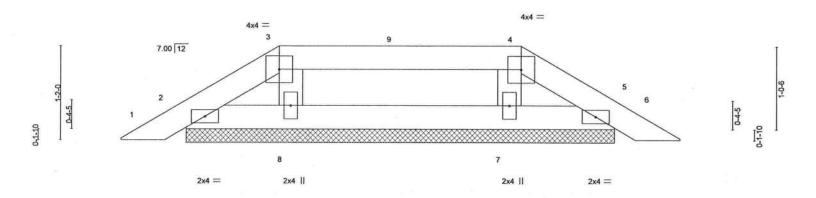
May 18,2021

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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job SIMQUE - LOT 55 PLL Truss Truss Type Qty Ply T23986079 2797531 **PB01** Piggyback Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 16:03:05 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-ilu3vVEd4TYC8zksg?l0fj1lK4vz6KjuPpXPoRzGXdq 7-0-0

Scale = 1:13.8



		-					7-0-0 7-0-0						Н	
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	0.13	Vert(LL)	0.00	5	n/r	120	MT20	244/190	
TCDL	7.0		Lumber DOL	1.25	BC	0.04	Vert(CT)	0.00	5	n/r	120	/ Italian Table		
BCLL	0.0	*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a			
BCDL	10.0		Code FBC2020/T	PI2014	Matri	x-P	- Section (Sec.)				7-7-2-7	Weight: 20 lb	FT = 20%	

LUMBER-

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

BRACING-

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

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

REACTIONS. All bearings 5-3-11.

Max Horz 2=32(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 8, 7 Max Grav All reactions 250 lb or less at joint(s) 2, 5, 8, 7

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 C; 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) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 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) 2, 5, 8, 7.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building



6904 Parke East Blvd. Tampa FL 33610

May 18,2021

🛦 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 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 properly incorporate this design into the overall 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 pracing is always required for stability and to prevent localizes with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



SIMOUE - LOT 55 PLL Job Truss Truss Type Qty Ply T23986080 21 PB02 2797531 Piggyback Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 16:03:06 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGwSt4cPREnm5p9yfgzNgAycgdx-AUSR7qFFrng3m6J2DiqFCwZTsUEkmr1eTHyKuzGXdp Scale = 1:14.3 4x4 = 3 7.00 12 0-4-5 0-1-10 2x4 || 2x4 = 2x4 = LOADING (psf) CSI. DEFL. I/defl L/d **PLATES** GRIP SPACING-2-0-0 in (loc) Plate Grip DOL 1.25 TC 0.15 Vert(LL) 0.00 n/r 120 MT20 244/190 20.0 TCLL Vert(CT) 0.00 5 120 1.25 BC 0.07 n/r Lumber DOL TCDL 7.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 n/a 0.0 BCLL Code FBC2020/TPI2014 Weight: 22 lb FT = 20% 10.0 BCDL BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. TOP CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS**

(size) 2=5-3-11, 4=5-3-11, 6=5-3-11 Max Horz 2=59(LC 11)

Max Uplift 2=-74(LC 12), 4=-82(LC 13), 6=-39(LC 12)

Max Grav 2=134(LC 1), 4=134(LC 20), 6=184(LC 1)

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

REACTIONS.

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 C; 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.
- 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 100 lb uplift at joint(s) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

May 18,2021

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 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 ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd. Tampa, FL 36610

SIMQUE - LOT 55 PLL Job Truss Truss Type Qty Ply T23986081 2797531 PB02G GABLE Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244. 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 16:03:07 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-eg0pKAGtc4owNGuEnPLUk86f?ubPaE2Bt70WtKzGXdo 5-10-2 Scale = 1:12.5 4x4 = 7.00 12 2 0-4-5 0-4-5 0,1-1,0 I: 6 2x4 = 2x4 II 2x4 = 5-10-2 5-10-2 LOADING (psf) SPACING-CSI 2-0-0 DEFL (loc) I/defl L/d **PLATES** GRIP 20.0 Plate Grip DOL TC BC 244/190 TCII 1.25 0.12 Vert(LL) 0.00 5 n/r 120 MT20 TCDL 7.0 Lumber DOL 1.25 0.04 Vert(CT) 0.00 5 n/r 120 Rep Stress Incr WB BCLL 0.0 YES 0.04 Horz(CT) 0.00 4 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-P Weight: 18 lb FT = 20%LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 5-10-2 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

OTHERS 2x4 SP No.3

(size) 2=4-1-13, 4=4-1-13, 6=4-1-13

Max Horz 2=49(LC 11)

Max Uplift 2=-63(LC 12), 4=-70(LC 13), 6=-28(LC 12) Max Grav 2=112(LC 1), 4=113(LC 20), 6=141(LC 1)

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

REACTIONS.

- 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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

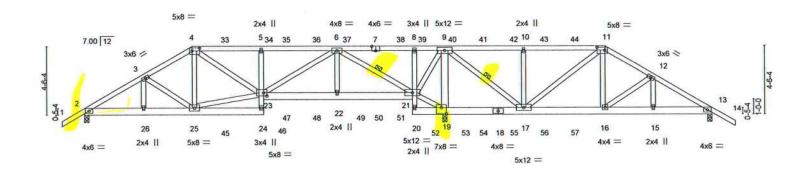
May 18,2021

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



Job		Truss		Trus	s Type			(Qty	Ply	SIMQUE - LOT 55 PLL	8		
2797531		T01		HIP (GIRDER				1	ા				T2398608
**************************************		OTOTO I		Process :					720		Job Reference (optiona)		
Builders First	Source (Jack	sonville, FL),	Jacksonville	, FL - 3	2244,						pr 20 2021 MiTek Industri			
								ID:RGwSt4	CPRE	nm5p9yfgzh	NgAycgdx-3FhyyClmv?AV	EkdpSYuBMrr	k?y5WtnN2d	Z5FAUfzGXdl
1-6-0	3-10-4	7-0-0	11-8-0	76	16-6-4	1	21-4-8	, 23-6-4	ř.	28-8-4	34-0-0	37-1-12	41-0-0	42-6-0
1-6-0	3-10-4	3-1-12	4-8-0		4-10-4		4-10-4	2-1-12	2	5-2-0	5-3-12	3-1-12	3-10-4	1-6-0

Scale = 1:72.8



	3-10-4	, 7-0-0 , 11-	8-0	16-6-4	21-4-8	23-6-4	28-8-4	1	34-0-0	37-1-12	41-0-0
	3-10-4	3-1-12 4-6	3-0	4-10-4	4-10-4	2-1-12	5-2-0	- '	5-3-12	3-1-12	3-10-4
Plate Offse	ets (X,Y)	[4:0-6-0,0-2-4], [7:0-3-0,8	dge], [11:0-6-	0,0-2-4], [19:0	0-4-0,0-4-12], [23	3:0-2-8,0-2-8]					
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.78	Vert(LL)	0.17 22-23	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.19 22-23	>999	180	1 87 895 5-5	
BCLL	0.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.05 19	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS					Weight: 279	9 lb FT = 20%

BRACING-

WEBS

TOP CHORD **BOT CHORD**

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2 *Except*

5-24,8-20: 2x4 SP No.3

WEBS 2x4 SP No.3 "Except"

9-19: 2x6 SP No.2

(size) 2=0-3-8, 13=0-3-8, 19=0-3-8 (req. 0-5-1) REACTIONS.

Max Horz 2=159(LC 7) Max Uplift 2=-935(LC 8), 13=-605(LC 9), 19=-3203(LC 5) Max Grav 2=1357(LC 19), 13=775(LC 20), 19=4312(LC 1)

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

2-3=-2198/1562, 3-4=-2044/1561, 4-5=-2320/1728, 5-6=-2338/1735, 6-8=-914/1246, TOP CHORD

8-9=-946/1291, 9-10=0/316, 10-11=0/316, 11-12=-902/926, 12-13=-1090/974

2-26=-1347/1858, 25-26=-1347/1858, 5-23=-523/452, 22-23=-773/1307, 21-22=-773/1307, BOT CHORD

8-21=-381/323, 17-19=-1976/1454, 16-17=-710/769, 15-16=-780/902, 13-15=-780/902 WEBS

3-25=-309/231, 4-25=-242/389, 23-25=-1126/1556, 4-23=-460/746, 6-23=-1046/1288, 6-22=-65/468, 6-21=-2926/2014, 19-21=-2030/1521, 9-21=-825/1289, 9-19=-2975/2231,

9-17=-1931/2408, 10-17=-617/544, 11-17=-1071/791, 11-16=-522/674, 12-16=-253/216

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

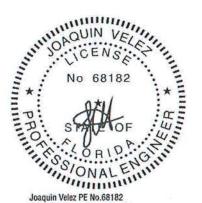
4) Provide adequate drainage to prevent water ponding.

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

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

7) WARNING: Required bearing size at joint(s) 19 greater than input bearing size.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=935, 13=605, 19=3203.



Structural wood sheathing directly applied or 3-4-6 oc purlins.

6-21, 9-17

Rigid ceiling directly applied or 5-0-2 oc bracing.

1 Row at midpt

Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

May 18,2021

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

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	SIMQUE - LOT 55 PLL		
2797531	TO1	HIP GIRDER	1	1			T23986082
					Job Reference (optional)		
D. Halana Charles	(Indiana III CI)	-line FL 20044		0 400 - 4	00 0004 MIT-1 I-4 -1 I E-1	1. 1110 00 10 0001	0 0

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 16:03:10 2021 Page 2 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-3FhyyClmv?AVEkdpSYuBMmk?y5WtnN2dZ5FAUfzGXdl

NOTES-

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 150 lb down and 150 lb up at 7-0-0, 150 lb down and 147 lb up at 9-0-12, 150 lb down and 147 lb up at 11-0-12, 158 lb down and 130 lb up at 13-0-12, 158 lb down and 130 lb up at 15-0-12, 158 lb down and 150 lb up at 15-0-12, 158 lb down and 150 lb up at 15-0-12, 158 lb down and 150 lb up at 15-0-12, 158 lb down and 150 lb up at 15-0-12, 158 lb down and 150 lb up at 15-0-12, 158 lb down and 150 lb up at 15-0-12, 158 lb down and 150 lb up at 15-0-12, 158 lb down and 150 lb up at 15-0-12, 158 lb down and 150 lb up at 15-0-12, 158 lb down and 150 lb up at 15-0-12, 158 lb down and 150 lb up at 15-0-12, 158 lb down and 150 lb up at 15-0-12, 158 lb down and 150 lb up at 15-0-12, 158 lb down and 150 lb up at 15-0-12, 158 lb down and 150 lb up at 15-0-12, 158 lb down and 150 lb up at 15-0-12, 158 lb down and 150 lb u down and 130 lb up at 19-0-12, 158 lb down and 120 lb up at 20-6-0, 150 lb down and 147 lb up at 21-11-4, 150 lb down and 147 lb up at 23-11-4, 15 lb up at 25-11-4, 150 lb down and 147 lb up at 27-11-4, 150 lb down and 147 lb up at 29-11-4, and 150 lb down and 147 lb up at 31-11-4, and 226 lb down and 294 lb up at 34-0-0 on top chord, and 338 lb down and 409 lb up at 7-0-0, 91 lb down and 92 lb up at 9-0-12, 91 lb down and 92 lb up at 11-0-12, 83 lb down and 49 lb up at 13-0-12, 83 lb down and 49 lb up at 15-0-12, 83 lb down and 49 lb up at 15-0-12, 83 lb down and 49 lb up at 20-6-0, 91 lb down and 92 lb up at 21-11-4, 91 lb down and 92 lb up at 23-11-4, 91 lb down and 92 lb up at 23-11-4, 91 lb down and 92 lb up at 27-11-4, 91 lb down and 92 lb up at 29-11-4, and 91 lb down and 92 lb up at 31-11-4, and 338 lb down and 409 lb up at 33-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

10) 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, 4-11=-54, 11-14=-54, 24-27=-20, 21-23=-20, 20-30=-20

Concentrated Loads (lb)

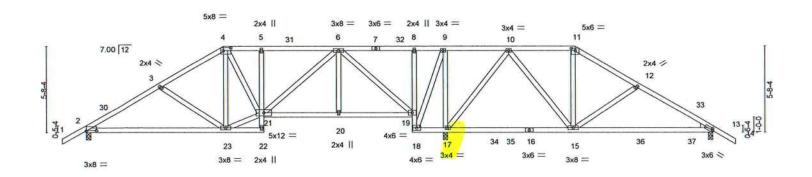
Vert: 4=-105(B) 7=-100(B) 11=-179(B) 25=-338(B) 16=-338(B) 33=-105(B) 34=-105(B) 35=-100(B) 36=-100(B) 37=-100(B) 38=-100(B) 39=-105(B) 40=-105(B) 41=-105(B) 42=-105(B) 43=-105(B) 44=-105(B) 45=-69(B) 46=-69(B) 47=-76(B) 48=-76(B) 49=-76(B) 50=-76(B) 51=-76(B) 52=-69(B) 53=-69(B) 54=-69(B) 55=-69(B) 56=-69(B) 57=-69(B)

T239		55 PLL	SIMQUE - LOT	Ply	Qty			ss Type	Tru	iss	Ti	lob
1239				1	1				HIF	2	TO	2797531
6:03:12 2021 Page	Fri May 14 16:03:1		Job Reference (c					32244	cksonville, FL -	le El \	ource / lacksony	Builders FirstSc
	wfRBpQAv8HFH1v				cPREnn	ID:RGv		32244,	Chaorivine, FL	ile, FL), Ja	ource (Jackson)	bullders Firston
-0 A2-6-0,	41-0-0	36-0-12	32-0-0	-8-4	, 2	, 23	21-4-8	16-6-4	, 11-8-0	9-0-0	4-11-4	1-6-0
-4 1-6-0	4-11-4	4-0-12	4-3-12	2-0		2-	4-10-4	4-10-4	2-8-0	4-0-12	4-11-4	1-6-0

Structural wood sheathing directly applied or 5-0-12 oc purlins.

Rigid ceiling directly applied or 5-4-15 oc bracing.

Scale = 1:72.8



		9-0-0	11-8-0	16-6-4	21-4-8	23-6-4	32-0	1-0		41-0-0	
	R.	9-0-0	2-8-0	4-10-4	4-10-4	2-1-12	8-5-	12		9-0-0	
Plate Offse	ts (X,Y)	[2:0-8-0,0-0-6], [4:0-6-0,	0-2-4], [11:0-	3-0,0-1-12], [13	3:0-0-15,0-1-8]						
LOADING	(psf)	SPACING-	2-0-0	CSI.	Æ	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
CLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	0.28 15-29	>741	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	0.24 15-29	>864	180	William Street	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.02 17	n/a	n/a		
BCDL	10.0	Code FBC2020/	TPI2014	Matri	ix-MS					Weight: 247 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 *Except* 5-22,8-18: 2x4 SP No.3

WEBS 2x4 SP No.3

WEDGE

Right: 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 17=0-3-8, 13=0-3-8

Max Horz 2=-196(LC 10)

Max Uplift 2=-423(LC 12), 17=-901(LC 9), 13=-369(LC 13) Max Grav 2=880(LC 25), 17=1926(LC 2), 13=616(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1169/590, 3-4=-974/497, 4-5=-940/560, 5-6=-949/566, 6-8=-71/283, 8-9=-74/286,

9-10=-194/547, 10-11=-362/692, 11-12=-477/750, 12-13=-673/849

2-23=-522/1041, 20-21=-272/636, 19-20=-272/636, 18-19=-935/420, 17-18=-479/217,

BOT CHORD 13-15=-698/566

WEBS

3-23=-335/257, 21-23=-300/886, 4-21=-201/329, 6-21=-180/430, 6-19=-1065/455, 9-18=-412/873, 9-17=-969/465, 10-17=-803/587, 10-15=-470/543, 11-15=-277/116,

12-15=-312/270

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 C; 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 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 32-0-0, Exterior(2R) 32-0-0 to 36-2-6, Interior(1) 36-2-6 to 42-6-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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=423, 17=901, 13=369.



Joaquin Velez PE No.68182 MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

May 18,2021

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 and roper Pade Mit-74 rev. 5192/08 BEFORE USE.

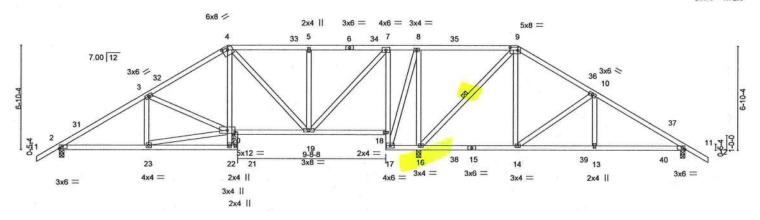
Design valid for use only with MITEk® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design, Bracing indicated is to prevent bucking of individual truss web and/for chord members only. Additional temporary and permanent bracing is always required for slability 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 Truss Type SIMQUE - LOT 55 PLL Qty Ply T23986084 2797531 T03 HIP Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 16:03:13 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-TqN4bELeCwY35BLO8gSu_PMaoJYF_j?3F3Tq4_zGXdi 23-6-4 41-0-0 5-11-7 30-0-0 35-0-9

Scale = 1:72.8



			-3-8	11-8-0	16-4-0	21-4-8	23-6-4	30-0-0		35-0-9	41-0-0		
	5-	8-8 5-	7-0	0-4-8	4-8-0	5-0-8	2-1-12	6-5-12		5-0-9	5-11-7		
Plate Offs	ets (X,Y)-	[4:0-4-0,0-1-11], [9:0-	-6-0,0-	2-4], [24:0-	2-0,0-1-8]								
LOADING	(psf)	SPACING-		2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DO	L	1.25	TC	0.49	Vert(LL)	0.08 14-16	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL		1.25	BC	0.40	Vert(CT)	-0.11 19-20	>999	180			
BCLL	0.0	Rep Stress Inc	cr	YES	WB	0.90	Horz(CT)	0.02 11	n/a	n/a			
BCDL	10.0	Code FBC202	20/TPI2	2014	Matri	ix-MS					Weight: 258 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

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

4-22,7-17: 2x4 SP No.3

2x4 SP No.3 WEBS

REACTIONS.

(size) 2=0-3-8, 16=0-3-8, 11=0-3-8

Max Horz 2=233(LC 11)

Max Uplift 2=-423(LC 12), 16=-814(LC 9), 11=-386(LC 13) Max Grav 2=911(LC 19), 16=1946(LC 2), 11=621(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1248/566, 3-4=-945/515, 4-5=-533/410, 5-7=-533/411, 7-8=-69/293, 8-9=-125/514,

9-10=-308/563. 10-11=-723/907

BOT CHORD 2-23=-516/1146, 4-20=-160/553, 19-20=-308/795, 17-18=-871/367, 7-18=-786/376,

16-17=-395/170, 14-16=-311/237, 13-14=-715/577, 11-13=-715/577

3-20=-402/233, 4-19=-461/142, 5-19=-322/249, 7-19=-405/981, 8-17=-359/823,

8-16=-1079/542, 9-16=-839/666, 9-14=-609/481, 10-14=-463/508, 10-13=-298/229,

20-23=-507/1081

NOTES-

WEBS

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 C; 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 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 30-0-0, Exterior(2R) 30-0-0 to 34-2-15, Interior(1) 34-2-15 to 42-6-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

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

- * 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=423, 16=814, 11=386.



Structural wood sheathing directly applied or 5-2-8 oc purlins.

Rigid ceiling directly applied or 5-7-14 oc bracing. Except:

10-0-0 oc bracing: 20-22

1 Row at midpt

6904 Parke East Blvd. Tampa FL 33610

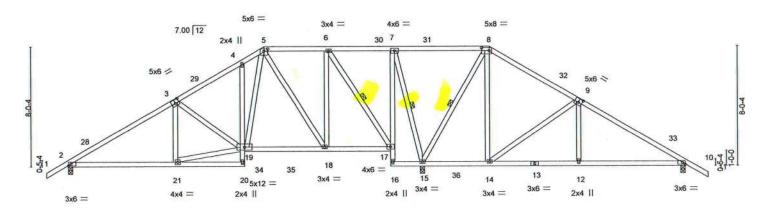
May 18,2021

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			Qty	Ply	SIMQUE - LOT 55 PLL		********
2797531	T04		ніР			1		1		T23986085
								Job Reference (options		
Builders FirstSource	(Jacksonville, FL),	Jacksonville,	FL - 32244,					s Apr 20 2021 MiTek Industr		
					ID:	RGwSt4cPRE	nm5p9yfgz	zNgAycgdx-PDVr?vMukYpn	LVVnF5UM3qRwJ6CnSg	KMjNyx9szGXdg
,-1-6-0,	7-1-0	11-8-0	13-0-0	17-2-4	 21-4-8	, 28	-0-0	33-11-0	41-0-0	42-6-0 ₁
1-6-0	7-1-0	4-7-0	1-4-0	4-2-4	4-2-4	6-	7-8	5-11-0	7-1-0	1-6-0

Scale = 1:74.1



	A.	7-1-0	11-8-0	17-2-4	21-4-8	, 23-6-4	28-0-0	1	33-11-0	41-0-0	- 1
		7-1-0	4-7-0	5-6-4	4-2-4	2-1-12	4-5-12	. M.	5-11-0	7-1-0	
Plate Offse	ts (X,Y)-	[3:0-3-0,0-3-0], [5:0-3-0,	0-1-12], [8:0-6-	0,0-2-4], [9:0-3	3-0,0-3-0]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.08 21-24	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.16 21-24	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.02 15	n/a	n/a		
BCDL	10.0	Code FBC2020/	TPI2014	Matrix	c-MS					Weight: 268 lb	FT = 20%

BRACING-TOP CHORD

WEBS

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

4-20,7-16: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 15=0-3-8, 10=0-3-8

Max Horz 2=270(LC 11)

Max Uplift 2=-419(LC 12), 15=-544(LC 12), 10=-390(LC 13) Max Grav 2=929(LC 19), 15=1968(LC 2), 10=752(LC 20)

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

TOP CHORD 2-3=-1182/532, 3-4=-900/513, 4-5=-842/585, 5-6=-362/348, 6-7=-60/291, 7-8=-136/511, 8-9=-259/358, 9-10=-839/482

BOT CHORD 2-21=-489/1120, 18-19=-235/632, 17-18=-162/401, 7-17=-266/755, 12-14=-266/641,

10-12=-266/637

19-21=-484/1153, 3-19=-392/236, 5-19=-353/795, 5-18=-524/192, 6-18=-124/659,

6-17=-882/361, 8-15=-843/257, 8-14=-168/580, 9-14=-700/374, 9-12=0/292,

7-15=-1067/505

NOTES-

WEBS

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 C; 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 13-0-0, Exterior(2R) 13-0-0 to 17-2-4, Interior(1) 17-2-4 to 28-0-0, Exterior(2R) 28-0-0 to 32-2-15, Interior(1) 32-2-15 to 42-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.

4) 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=419, 15=544, 10=390.



Structural wood sheathing directly applied or 4-11-10 oc purlins.

6-17, 8-15, 7-15

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

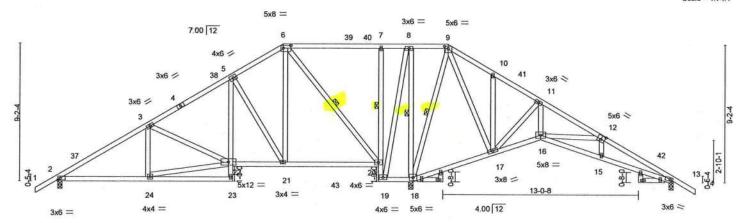
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

May 18,2021



Job Truss Type SIMQUE - LOT 55 PLL Truss Qty Ply T23986086 2797531 T05 Hip 1 Job Reference (optional) Builders FirstSource (Jacksonville, FL). Jacksonville, FL - 32244. 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 16:03:17 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-MbdbQbO9G93Vapf9NVWQ8FWGywutwatfAgR1DlzGXde 23-8-0 | 26-0-0 | 29-0-0 | 32-2-4 | 36-3-0 | 41-0-0 | 42-6-0 |

Scale = 1:74.1



				23-8-0					
6-0-0	11-8-0	1 15-0-0	21-4-8	23-6-4 11 25-8-0 1	29-0-0	32-2-4	36-3-0	38-8-8	41-0-0
6-0-0	5-8-0	3-4-0	6-4-8	2-1-12 2-0-0	3-4-0	3-2-4	4-0-12	2-5-8	41-0-0 2-3-8
				0-1-12					

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.09	20-21	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.14	20-21	>999	180	7656289 F.D		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	-0.05	18	n/a	n/a	HI .		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	100.200.2011					Weight: 297 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

1 Row at midpt

1 Row at midpt

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

5-23,7-19,25-26,28-29: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 18=0-3-8, 13=0-3-8

Max Horz 2=-307(LC 10)

Max Uplift 2=-398(LC 12), 18=-586(LC 12), 13=-332(LC 13) Max Grav 2=849(LC 19), 18=2221(LC 2), 13=565(LC 20)

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

TOP CHORD 2-3=-1118/512, 3-5=-768/460, 5-6=-427/376, 6-7=0/462, 7-8=0/470, 8-9=-14/688,

9-10=-134/518, 10-11=-124/461, 11-12=-406/406, 12-13=-1106/664

BOT CHORD 2-24=-515/1084, 5-22=-174/479, 21-22=-339/683, 20-21=-249/387, 19-20=-1187/495,

7-20=-334/270, 18-19=-639/303, 17-18=-520/269, 16-17=-220/280, 15-16=-482/959,

13-15=-478/955

22-24=-512/1012, 3-22=-443/240, 5-21=-662/376, 6-21=-281/821, 6-20=-1073/362,

8-19=-459/1110, 8-18=-1130/452, 9-18=-786/235, 9-17=-307/643, 11-17=-635/354,

11-16=-180/480, 12-16=-675/342

NOTES-

WEBS

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 C; 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 19-2-15, Interior(1) 19-2-15 to 26-0-0, Exterior(2R) 26-0-0 to 30-2-15, Interior(1) 30-2-15 to 42-6-0 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=398, 18=586, 13=332,



Structural wood sheathing directly applied or 5-5-9 oc purlins.

7-20

6-20, 8-18, 9-18

Rigid ceiling directly applied or 4-7-5 oc bracing. Except:

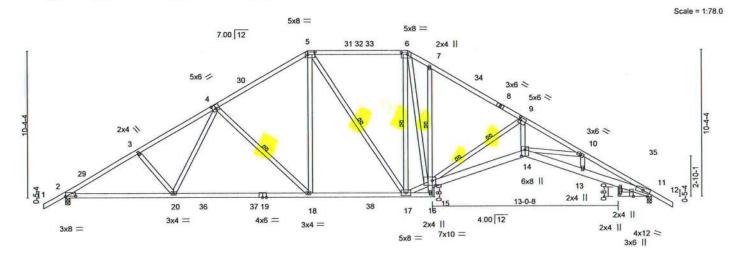
MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

May 18,2021

▲ 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 dange. 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



Job	Truss		Truss Type		Qty	Ply	SIMQUE - I	OT 55 PLL		
O-Section 1			857.4		- 81	24				T23986087
2797531	T06		PIGGYBACK BASE		1	3	1			
			l l				Job Referen	ce (optional)		
Builders FirstSource (Jacksonville, FL),	Jacksonville	e, FL - 32244,			8.430 s	Apr 20 2021 Mi	Tek Industries, Inc.	Fri May 14 16:0	03:18 2021 Page 1
Commission of the control of the con	PONTAGE BY STONE HANDE WAS TO STONE # # 1 /		APTON BIS LUNGSCONOT	ID:RGwS	t4cPREnm5	p9yfgzNg	Aycgdx-qoAze	xOn0TBMCyELwD1	3hS3NnK6Qfz(GoPKBbmBzGXdd
r1-6-0 ₁	5-2-5	10-7-14	17-0-0	24-0-0	25-8-	0,	32-2-4	36-3-0	41-0-0	42-6-Q
1.6.0	5.2.5	5.5.0	6.4.2	7-0-0	1-8-	0	6-6-4	4-0-12	4-9-0	1-6-0



	70	7-7-4	17-0	0-0	1	24-0-0	25-8-0	and the second second second second	32-2-4	1	36-3-0		1-0-0
		7-7-4	9-4-	-12	1	7-0-0	1-8-0	11100	6-6-4		4-0-12	2-5-8 2	2-3-8
Plate Offse	ets (X,Y)-	[2:0-8-0,0-0-6], [4:0-3-0,0)-3-0], [5:0-6-0,0)-2-4], [6:0-5	-0,0-1-12],	[9:0-1-8,0-2-4], [14:	0-5-8,0	-3-0], [1	5:0-3-0,0	4-0], [21:0	0-2-1,0-1-0	0]	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.47	14-15	>999	240		MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.81	14-15	>609	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.45	26	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS							Weight: 281	lb FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

1 Row at midpt

1 Row at midpl

2 Rows at 1/3 pts

Structural wood sheathing directly applied or 2-1-7 oc purlins.

7-15

9-15

4-18, 5-17, 6-17

Rigid ceiling directly applied or 2-2-0 oc bracing. Except:

LUMBER-TOP CHORD 2x4 SP No.2

2x4 SP M 31 *Except* BOT CHORD

7-16,11-21: 2x4 SP No.3, 14-15: 2x6 SP No.2, 11-14: 2x6 SP M 26

2x4 SP No.3 *Except* WEBS

9-14: 2x4 SP No.2

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

Max Horz 2=-344(LC 10)

Max Uplift 2=-640(LC 12), 11=-640(LC 13)

Max Grav 2=1791(LC 19), 11=1764(LC 20), 11=1598(LC 1)

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

TOP CHORD 2-3=-2898/989, 3-4=-2768/975, 4-5=-2067/764, 5-6=-1695/738, 6-7=-2267/967,

7-9=-2332/827, 9-10=-5753/1755, 10-11=-5740/1849

BOT CHORD 2-20=-960/2669, 18-20=-750/2272, 17-18=-439/1756, 7-15=-327/280, 14-15=-1301/5011,

13-14=-1554/5223, 11-13=-1533/5141

4-20=-143/582, 4-18=-728/432, 5-18=-243/875, 6-17=-577/207, 15-17=-331/1803, WEBS

6-15=-578/1573, 9-15=-3418/1126, 9-14=-877/3455

NOTES-

REACTIONS.

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 C; 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 17-0-0, Exterior(2R) 17-0-0 to 21-2-15, Interior(1) 21-2-15 to 24-0-0, Exterior(2R) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 42-6-0 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) Provide adequate drainage to prevent water ponding.

2=640, 11=640, 11=640,

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) Bearing at joint(s) 11, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)

No 68182

*
No 68182

*
ORIO
STATE OF THE OF Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

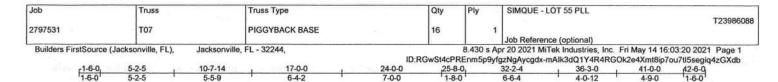
May 18,2021

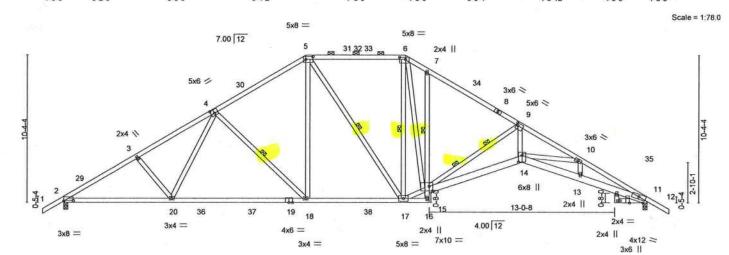
JOAQUIN VEL

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/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent ucling of individual truss web and/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent ucling of individual truss web and/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent ucling of individual truss web and for the property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Tampa, FL 36610





		7-7-4	17-	0-0		24-0-0	25-8-0		32-2-4		36-3-0	38-8-8 41	-0-0	
	, L	7-7-4	9-4-	-12		7-0-0	1-8-0		6-6-4		4-0-12	2-5-8 2-	3-8	
Plate Offse	ets (X,Y)-	[2:0-8-0,0-0-6], [4:0-3-0,0)-3-0], [5:0-6-0,0)-2-4], [6:0-5	-0,0-1-12],	[9:0-1-8,0-2-4], [14:	0-5-8,0	-3-0], [1	5:0-3-0,0	-4-0]				
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d		PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	-0.47	14-15	>999	240		MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.81	14-15	>609	180	1			
BCLL	0.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.45	26	n/a	n/a				
BCDL	10.0	Code FBC2020/T	PI2014	Matrix	k-MS	1 2 3						Weight: 281 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No 2

2x4 SP M 31 *Except* **BOT CHORD**

7-16,11-21: 2x4 SP No.3, 14-15: 2x6 SP No.2, 11-14: 2x6 SP M 26

WEBS 2x4 SP No.3 *Except*

9-14: 2x4 SP No.2

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

Max Horz 2=-344(LC 10)

Max Uplift 2=-640(LC 12), 11=-640(LC 13)

Max Grav 2=1791(LC 19), 11=1764(LC 20), 11=1598(LC 1)

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

2-3=-2898/989, 3-4=-2768/975, 4-5=-2067/764, 5-6=-1695/738, 6-7=-2267/967, TOP CHORD

7-9=-2332/827, 9-10=-5753/1755, 10-11=-5740/1849

BOT CHORD 2-20=-960/2669, 18-20=-750/2272, 17-18=-439/1756, 7-15=-327/280, 14-15=-1301/5011,

13-14=-1554/5223, 11-13=-1533/5141

4-20=-143/582, 4-18=-728/432, 5-18=-243/875, 6-17=-577/207, 15-17=-331/1803,

6-15=-578/1573, 9-15=-3418/1126, 9-14=-877/3455

NOTES-

WEBS

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 C; 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 17-0-0, Exterior(2R) 17-0-0 to 21-2-15, Interior(1) 21-2-15 to 24-0-0, Exterior(2R) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 42-6-0 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) 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) Bearing at joint(s) 11, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Structural wood sheathing directly applied or 2-1-7 oc purlins, except

4-18, 5-17, 6-17

Rigid ceiling directly applied or 2-2-0 oc bracing. Except:

7-15

9-15

2-0-0 oc purlins (3-0-12 max.): 5-6.

1 Row at midpt

1 Row at midpt

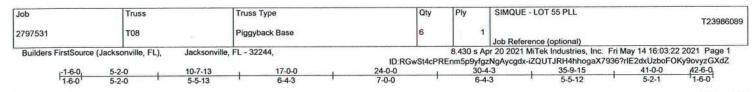
2 Rows at 1/3 pts

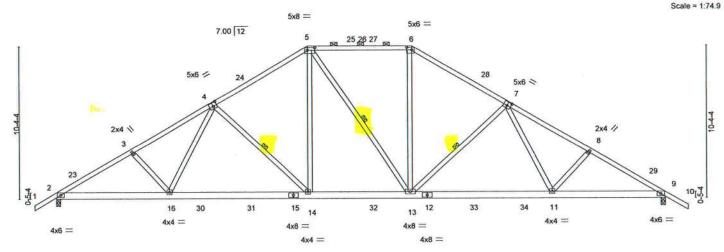
MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

May 18,2021

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 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/TH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601







		7-7-3	17-	0-0	T.	24-0-0	1		33-4-13		41-0-0	
		7-7-3	9-4	-13	-	7-0-0			9-4-13		7-7-3	
Plate Offse	ets (X,Y)-	[4:0-3-0,0-3-0], [5:0-6-0,0	-2-4], [6:0-4-0,0)-2-4], [7:0-3	-0,0-3-0]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defi	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	-0.26	14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.48	14-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.08	9	n/a	n/a	400000000000000000000000000000000000000	
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	20.00					Weight: 272 lb	FT = 20%

BRACING.

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2 *Except* 5-6: 2x4 SP M 31

BOT CHORD 2x6 SP M 26 *Except* 12-15: 2x6 SP No.2

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 9=0-3-8

Max Horz 2=-344(LC 10) Max Uplift 2=-832(LC 12), 9=-723(LC 13) Max Grav 2=2223(LC 19), 9=1981(LC 20)

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

TOP CHORD 2-3=-3848/1411, 3-4=-3709/1394, 4-5=-2538/1009, 5-6=-2004/879, 6-7=-2384/928,

7-8=-3162/1148, 8-9=-3304/1166

2-16=-1322/3505, 14-16=-1039/2934, 13-14=-654/2247, 11-13=-664/2421, **BOT CHORD**

9-11=-881/2783

4-16=-312/981, 4-14=-966/536, 5-14=-477/1349, 5-13=-443/318, 6-13=-293/954, WEBS

7-13=-747/437, 7-11=-148/620

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 C; 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 17-0-0, Exterior(2R) 17-0-0 to 21-2-15, Interior(1) 21-2-15 to 24-0-0, Exterior(2R) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 42-6-0 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) 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)
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) 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

No 68182

No 68182

No 68182

Velez PE No.6818'

'a Velez PE No.6818'

'ac. FL Cert 6'

alvd. Ta

Structural wood sheathing directly applied, except

Rigid ceiling directly applied or 7-3-8 oc bracing.

4-14, 5-13, 7-13

2-0-0 oc purlins (5-1-12 max.): 5-6.

1 Row at midpt

6904 Parke East Blvd. Tampa FL 33610

May 18,2021

MURNING - 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/ITPI1 Quality Criteria, DSB-99 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	SIMQUE - LOT 55 PLL	
2797531	тов	Piggyback Base	6	1		T23986089
A STATE OF TAXABLE	23500				Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 16:03:22 2021 Page 2 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-iZQUTJRH4hhogaX7936?rIE2dxUzboFOKy9ovyzGXdZ

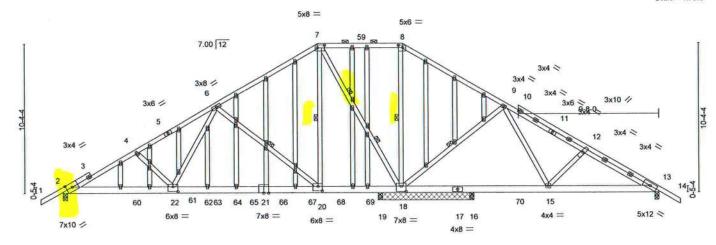
LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-5=-54, 5-6=-54, 6-10=-54, 16-17=-20, 14-16=-80(F=-60), 14-20=-20



Job		Truss		Truss Typ	oe .	5391105.5	Qty	P	ly	SIMQUE - L	OT 55 PLL		T2398609
2797531		T08G		GABLE			1		1	Inh Referen	ice (optional)		1200000
Builders FirstSource	(Jacks	sonville, FL),	Jacksonvil	le, FL - 32244	i,		ID:RGwSt4		430 s Ap	r 20 2021 Mi	Tek Industries, Inc. Fri MooKf?JgVo8wBD9BruOvB		
1-1-6	6-0,	5-2-0	10-7	13	17-6-15	1	23-5-1			0-4-3	35-9-15	41-0-0	42-6-0
	6-0	5-2-0	5-5-	13	6-11-2		5-10-2		6-	11-2	5-5-12	5-2-1	1-6-0

Scale = 1:76.6



	7-7-3	10	17-6-15	1 22-0-0	23-5-1,25-0-0	28-3-8	33-4-13	41-0-0	
	7-7-3		9-11-12	4-5-1	1-5-1 1-6-15	3-3-8	5-1-5	7-7-3	
ets (X,Y)-	[2:0-4-15,Edge], [7:0-6-0	,0-2-4], [8:0-3-8	,0-2-0], [18:0-4-0,0-4	1-8], [20:0-3-8,0-3-12]	, [22:0-4-0,0-4	1-0]			
(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (lo	c) I/defl	L/d	PLATES	GRIP
20.0	Plate Grip DOL	1.25	TC 0.71	Vert(LL)	0.29 20-2	2 >912	240	MT20	244/190
7.0	Lumber DOL	1.25	BC 0.76	Vert(CT)	-0.35 20-2	2 >737	180		
0.0 *	Rep Stress Incr	NO	WB 1.00	Horz(CT)	0.02	18 n/a	n/a		
10.0	Code FBC2020/T	PI2014	Matrix-MS					Weight: 388 lb	FT = 20%
	(psf) 20.0 7.0 0.0 *	7.7.3 ets (X,Y)— [2:0-4-15,Edge], [7:0-6-0 (psf) SPACING- 20.0 Plate Grip DOL 7.0 Lumber DOL 0.0 * Rep Stress Incr	7.7.3 ets (X,Y)— [2:0-4-15,Edge], [7:0-6-0,0-2-4], [8:0-3-8] (psf) SPACING- 2-0-0 20.0 Plate Grip DOL 1.25 7.0 Lumber DOL 1.25 0.0 Rep Stress Incr NO	7.7.3 9-11-12 ets (X,Y) [2:0-4-15,Edge], [7:0-6-0,0-2-4], [8:0-3-8,0-2-0], [18:0-4-0,0-4-0,0-4-0] (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.25 TC 0.71 7.0 Lumber DOL 1.25 BC 0.76 0.0 Rep Stress Incr NO WB 1.00	7.7.3 9-11-12 4-5-1	7.7.3 9-11-12 4-5-1 1-5-1 1-6-15 ets (X,Y)— [2:0-4-15,Edge], [7:0-6-0,0-2-4], [8:0-3-8,0-2-0], [18:0-4-0,0-4-8], [2:0-3-8,0-3-12], [22:0-4-0,0-4-8], [2:0-4-15,Edge], [7:0-6-0,0-2-4], [8:0-3-8,0-2-0], [18:0-4-0,0-4-8], [2:0-3-8,0-3-12], [22:0-4-0,0-4-8], [2:0-3-8,0-3-12], [22:0-4-0,0-4-8], [2:0-3-8,0-3-12], [2:0-4-0,0-4-8], [2:0-3-8,0-3-12], [2:0-4-0,0-4-8], [2:0-3-8,0-3-12], [2:0-4-0,0-4-8], [2:0-3-8,0-3-12], [2:0-4-0,0-4-8], [2:0-3-8,0-3-12], [2:0-4-0,0-4-8], [2:0-3-8,0-3-12], [2:0-4-0,0-4-8], [2:0-3-8,0-3-12], [2:0-4-0,0-4-8], [2:0-3-8,0-3-12], [2:0-4-0,0-4-8], [2:0-3-8,0-3-12], [2:0-4-0,0-4-8], [2:0-3-8,0-3-12], [2:0-4-0,0-4-8], [2:0-3-8,0-3-12], [2:0-4-0,0-4-8], [2:0-3-8,0-3-12], [2:0-4-0,0-4-8], [2:0-3-8,0-3-12], [2:0-4-0,0-4-8], [2:0-3-8,0-3-12], [2:0-4-0,0-4-8], [2:0-3-8,0-3-12], [2:0-4-0,0-4-8], [2:0-3-8,0-3-12], [2:0-4-0,0-4-8], [2:0-3-8,0-3-12], [2:0-4-0,0-4-8], [2:0-3-8,0-3-12], [2:0-4-0,0-4-8], [2:0-3-8,0-3-12], [2:0-4-0,0-4-8], [2:0-4-0,0-4-8], [2:0-4-0,0-4-8], [2:0-3-8,0-3-12], [2:0-4-0,0-4-8], [2	tets (X,Y)— [2:0-4-15,Edge], [7:0-6-0,0-2-4], [8:0-3-8,0-2-0], [18:0-4-0,0-4-8], [20:0-3-8,0-3-12], [22:0-4-0,0-4-0] [0psf) SPACING- 2-0-0 CSI. DEFL. in (loc) //defl 20.0 Plate Grip DOL 1.25 TC 0.71 Vert(LL) 0.29 20-22 >912 7.0 Lumber DOL 1.25 BC 0.76 Vert(CT) -0.35 20-22 >737 0.0 * Rep Stress Incr NO WB 1.00 Horz(CT) 0.02 18 n/a	7.7.3 9-11-12 4-5-1 1-5-1 1-6-15 3-3-8 5-1-5 ets (X,Y)— [2:0-4-15,Edge], [7:0-6-0,0-2-4], [8:0-3-8,0-2-0], [18:0-4-0,0-4-8], [20:0-3-8,0-3-12], [22:0-4-0,0-4-0] (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d 20.0 Plate Grip DOL 1.25 TC 0.71 Vert(LL) 0.29 20-22 >912 240 7.0 Lumber DOL 1.25 BC 0.76 Vert(CT) -0.35 20-22 >737 180 0.0 * Rep Stress Incr NO WB 1.00 Horz(CT) 0.02 18 n/a n/a	7.7-3 9-11-12 4-5-1 1-6-15 3-3-8 5-1-5 7-7-3 ets (X,Y)— [2:0-4-15,Edge], [7:0-6-0,0-2-4], [8:0-3-8,0-2-0], [18:0-4-0,0-4-8], [20:0-3-8,0-3-12], [22:0-4-0,0-4-0] (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES 20.0 Plate Grip DOL 1.25 TC 0.71 Vert(LL) 0.29 20-22 >912 240 MT20 7.0 Lumber DOL 1.25 BC 0.76 Vert(CT) -0.35 20-22 >737 180 0.0 Rep Stress Incr NO WB 1.00 Horz(CT) 0.02 18 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP M 26 *Except*

17-21: 2x6 SP No.2

WEBS 2x4 SP No.3 *Except*

7-18: 2x4 SP No.2

OTHERS 2x4 SP No.3

REACTIONS. All bearings 0-3-8 except (jt=length) 18=6-7-0.

(lb) - Max Horz 2=-344(LC 25)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-874(LC 8), 18=-1624(LC 8),

13=-461(LC 28), 19=-204(LC 8)

Max Grav All reactions 250 lb or less at joint(s) except 2=1477(LC 33), 18=2970(LC

33), 13=692(LC 16), 19=310(LC 33), 16=251(LC 14)

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

TOP CHORD 2-4=-2392/1451, 4-6=-2250/1409, 6-7=-317/241, 7-8=-408/988, 8-9=-543/1180,

9-12=-684/625, 12-13=-740/652

BOT CHORD 2-22=-1395/2315, 20-22=-786/1309, 19-20=-356/519, 18-19=-356/519, 16-18=-607/534,

15-16=-607/534, 13-15=-452/604

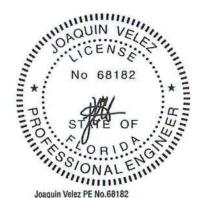
WEBS 4-22=-319/281, 6-22=-1051/1711, 6-20=-1373/972, 7-20=-1082/1848, 7-18=-2324/1403,

8-18=-820/455, 9-18=-703/472, 9-15=-163/528, 12-15=-289/241

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For stude 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 874 lb uplift at joint 2, 1624 lb uplift at joint 18, 461 lb uplift at joint 13 and 204 lb uplift at joint 19.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 3-1-2 oc purlins, except

7-18

6-20, 7-20, 8-18, 9-18

2-0-0 oc purlins (8-10-14 max.): 7-8.

1 Row at midpt

2 Rows at 1/3 pts

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

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

May 18,2021

WARNING - Verity 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

ANSITPIT quality Criteria, DSB-39 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd. Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 55 PLL	
2797531	T08G	GABLE	1	1		T23986090
				-	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 16:03:26 2021 Page 2 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-bKf?JgVo8wBD9BruOvBx08OlyYvaXbI_Fa702jzGXdV

NOTES-

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 368 lb down and 383 lb up at 5-0-0, 164 lb down and 149 lb up at 7-0-12, 164 lb down and 149 lb up at 19-0-12, 164 lb down and 149 lb up at 13-0-12, 164 lb down and 149 lb up at 15-0-12, 164 lb down and 149 lb up at 17-0-12, and 164 lb down and 149 lb up at 17-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) 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: 1-7=-54, 7-8=-54, 8-14=-54, 53-56=-20

Concentrated Loads (lb)

Vert: 60=-368(F) 61=-152(F) 62=-152(F) 64=-152(F) 65=-152(F) 66=-152(F) 67=-152(F) 68=-152(F) 69=-152(F)



SIMQUE - LOT 55 PLL Job Truss Truss Type Qty Ply T23986091 2 T09 2797531 Common Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 16:03:27 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGwSt4cPREnm5p9yfgzNgAycgdx-3XDNX0VQvEJ4nLQ4yciAYMx_cyKBG9I7TEsZaAzGXdU 21-4-0 1-6-0 9-11-0 Scale = 1:40.0 4x6 || 7.00 12 2x4 \ 2x4 // 10 9 8 3x4 = 3x6 =3x4 = 3x6 = 3x6 = 19-10-0 12-10-4 6-11-12 5-10-8 [2:0-6-0,0-0-2], [6:0-6-0,0-0-2] Plate Offsets (X,Y)-

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

(loc)

6

>999

>999

n/a

240

180

n/a

Rigid ceiling directly applied or 5-3-12 oc bracing.

Structural wood sheathing directly applied or 5-4-3 oc purlins.

0.12 10-13

-0.11 10-13

0.02

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

20.0

7.0

0.0

10.0

REACTIONS.

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=-212(LC 10)

Max Uplift 2=-331(LC 12), 6=-331(LC 13) Max Grav 2=815(LC 1), 6=815(LC 1)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1134/1309, 3-4=-966/1277, 4-5=-966/1278, 5-6=-1134/1310

BOT CHORD

2-10=-1047/939, 8-10=-613/615, 6-8=-1062/939

WEBS

4-8=-633/354, 5-8=-290/275, 4-10=-632/354, 3-10=-290/274

2-0-0

1.25

1.25

YES

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 C; 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 9-11-0, Exterior(2R) 9-11-0 to 12-11-0, Interior(1) 12-11-0 to 21-4-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

BC

WB

Matrix-MS

0.40

0.42

0.53

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 331 lb uplift at joint 2 and 331 lb uplift at joint 6.



PLATES

Weight: 98 lb

MT20

GRIP

244/190

FT = 20%

Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

May 18,2021

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

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITPI 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 SIMQUE - LOT 55 PLL Ply T23986092 2797531 T09G GABLE 1 Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 16:03:28 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGwSt4cPREnm5p9yfgzNgAycgdx-XjnlkMW2gXRxOV?GWKDP5ZU61Mgb?ckHiuc76czGXdT 21-4-0 9-11-0 15-3-9 19-10-0 Scale = 1:39.1 4x6 ||

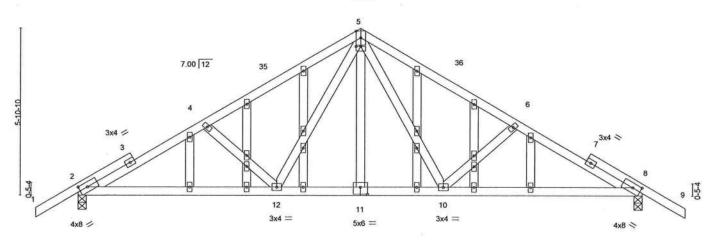


Plate Offsets (X,Y)-	[2:0-3-7,0-1-15], [5:0-2-0,	11-12 0-0-0], [8:0-3-7	7,0-1-15], [11	:0-3-0,0-3-0]	5-10-8		-			-11-12	
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/TF	2-0-0 1.25 1.25 YES PI2014	CSI. TC BC WB Matrix	0.61 0.41 0.52 x-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.12 -0.10 0.02		l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 136 lb	GRIP 244/190 FT = 20%

12-10-4

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 **OTHERS**

REACTIONS.

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=-201(LC 10)

Max Uplift 2=-334(LC 12), 8=-334(LC 13) Max Grav 2=812(LC 1), 8=812(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-1183/1405, 4-5=-1015/1334, 5-6=-1015/1334, 6-8=-1183/1405

BOT CHORD

2-12=-1173/1033, 10-12=-638/630, 8-10=-1190/1033

6-11-12

WEBS

5-10=-678/384, 6-10=-326/322, 5-12=-678/384, 4-12=-326/322

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 C; 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 9-11-0, Exterior(2R) 9-11-0 to 12-11-0, Interior(1) 12-11-0 to 21-4-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 334 lb uplift at joint 2 and 334 lb uplift at joint 8.



19-10-0

Structural wood sheathing directly applied or 4-11-12 oc purlins.

Rigid ceiling directly applied or 5-1-1 oc bracing.

Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

May 18,2021

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 designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer, Bracking 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/THI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Qty Plv SIMQUE - LOT 55 PtL Truss Type Job Truss T23986093 2797531 T10 Common Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 16:03:29 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-?vL8xiXgRrZo0faT41kedm0Mnm1Nk3rQxYLge2zGXdS 19-10-0 4-6-7 Scale = 1:40.5 4x6 || 7.00 12 2x4 \ 2x4 // 3x4 = 3x6 = 3x8 II 3x6 = 3x6 = 3x4 = 19-10₇0 6-11-12 6-11-12 Plate Offsets (X,Y)--[2:0-0-0,0-0-2], [6:Edge,0-0-2], [6:0-1-3,Edge] PLATES GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL I/defi L/d 244/190 20.0 Plate Grip DOL 1.25 TC 0.29 Vert(LL) 0.09 7-17 >950 240 MT20 TCLL TCDL 7.0 Lumber DOL 1.25 BC 0.37 Vert(CT) -0.10 9-12 >999 180 0.0 BCLL Rep Stress Incr YES WB 0.46 Horz(CT) 0.01 6 n/a n/a FT = 20% BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 97 lb BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Right: 2x4 SP No.3

(size) 2=0-3-8, 7=0-3-8, 6=0-3-8 REACTIONS.

Max Horz 2=203(LC 9)
Max Uplift 2=-229(LC 12), 7=-292(LC 12), 6=-168(LC 8) Max Grav 2=544(LC 1), 7=761(LC 1), 6=266(LC 24)

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

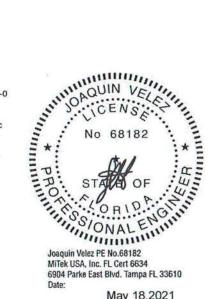
2-3=-620/321, 3-4=-449/295, 4-5=-104/273, 5-6=-202/305 TOP CHORD

2-9=-264/574 BOT CHORD

4-7=-552/253, 5-7=-299/281, 4-9=-181/404, 3-9=-311/279 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 C; 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 9-11-0, Exterior(2R) 9-11-0 to 12-11-0, Interior(1) 12-11-0 to 19-10-0 zone; cantilever right exposed; porch 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 229 lb uplift at joint 2, 292 lb uplift at joint 7 and 168 lb uplift at joint 6.



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

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

May 18,2021

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 properly 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 Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801

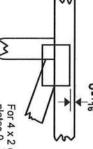


Symbols

PLATE LOCATION AND ORIENTATION



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



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

11

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

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

PLATE SIZE



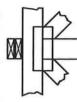
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

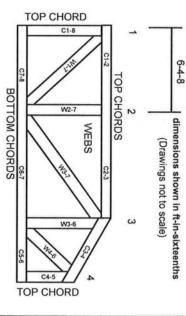
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction. DSB-89: Design Standard for Bracing.

DSB-89: Des BCSI: Buil

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

2012 MiTek® All Rights Reserved



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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

4

Cut members to bear tightly against each other

O

G

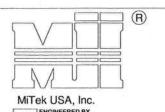
S

- 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.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 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 specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 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



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.

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

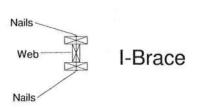
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)

	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			

\ \	Nails
	SPACING
WEB \	
	T-BRACE
The state of the s	
Nails Section Detail T-Brace	
Web	J

	Brace Size for Two-Ply Truss Specified Continuous Rows of Lateral 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

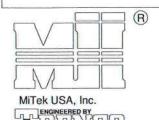
February 12, 2018

SCAB-BRACE DETAIL

MII-SCAB-BRACE

MiTek USA, Inc.

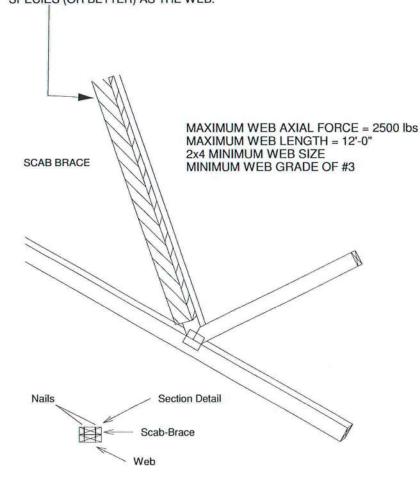
Page 1 of 1



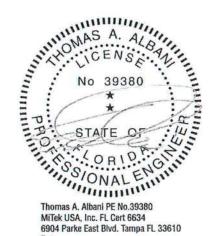
Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical. Scab must cover full length of web +/- 6".

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

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.



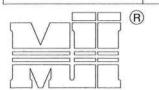
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

February 12, 2018

STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)

MII-REP05

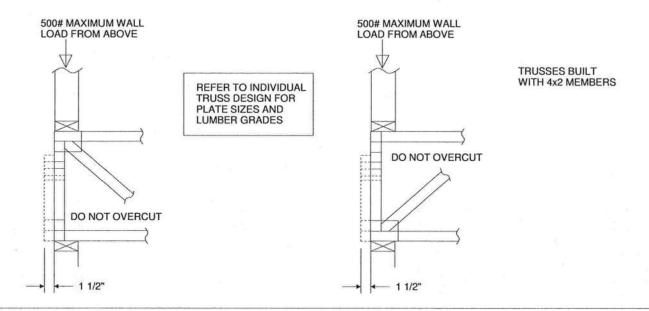
MiTek USA, Inc. Page 1 of 1

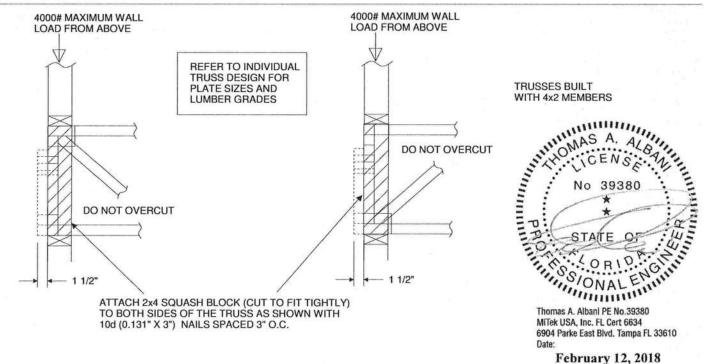


MiTek USA, Inc.

- 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.

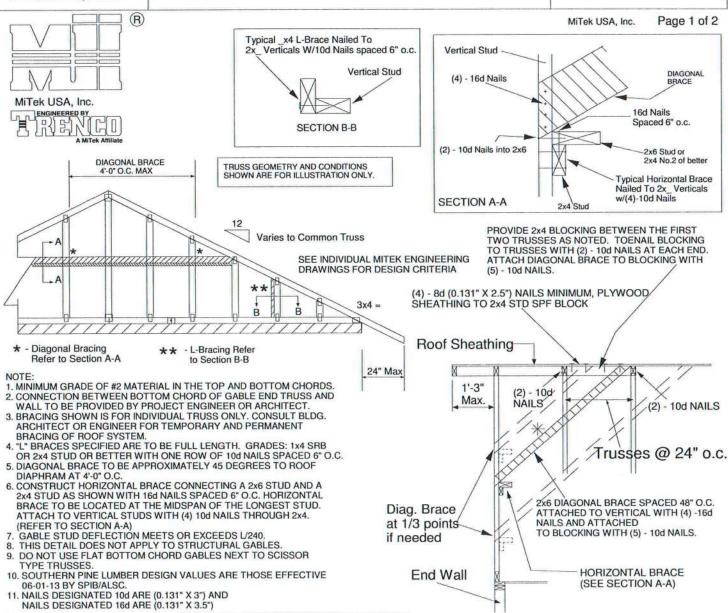
 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE
- APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
- 3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
- 4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING 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



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 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.

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

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:

February 12, 2018

Standard Gable End Detail

MII-GE130-SP

Page 1 of 2

(2) - 10d NAILS

Trusses @ 24" o.c.

2x6 DIAGONAL BRACE SPACED 48" O.C.

ATTACHED TO VERTICAL WITH (4) -16d

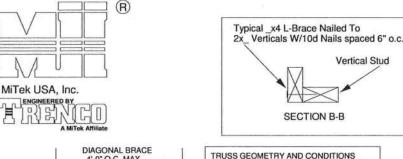
HORIZONTAL BRACE

(SEE SECTION A-A)

TO BLOCKING WITH (5) - 10d NAILS.

NAILS AND ATTACHED

MiTek USA, Inc.



Vertical Stud DIAGONAL BRACE (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 2x4 Stud

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

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

- 10d

NAILS

SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

1'-3"

Max.

Refer to Section A-A

to Section B-B

NOTE

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. 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.

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 2x-(REFER TO SECTION A-A)

GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSO

TYPE TRUSSES.

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECT 06-01-13 BY SPIB/ALSC.

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

10D. (4.	at 1	g. Brace 1/3 points eeded
R		
CTIVE		End Wall
ONAL ACE	2 DIAGONAL BRACES AT 1/3 POINTS	

24" Max

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	n Stud Le	ngth	
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

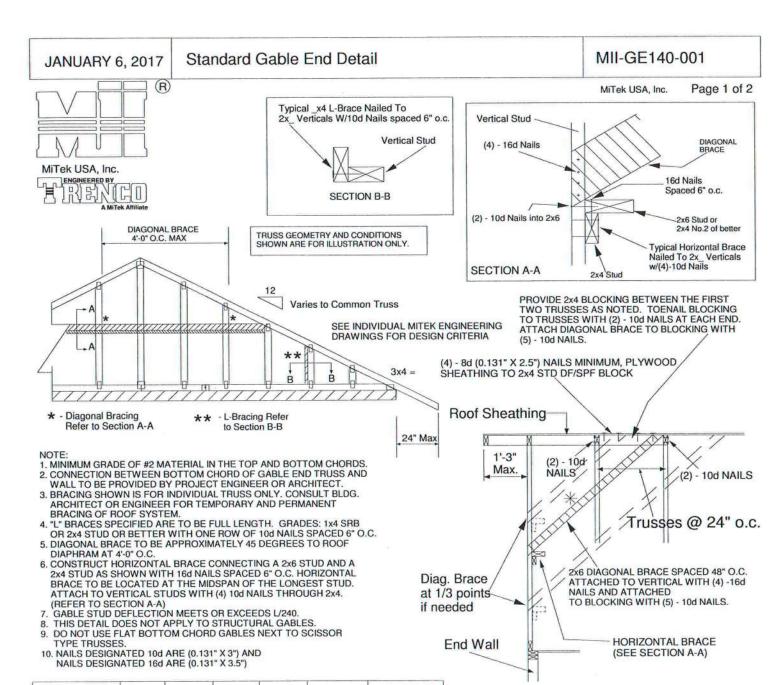
DURATION OF LOAD INCREASE: 1.60

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



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

February 12, 2018



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 Lei	ngth	
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 7-05 DURATION OF LOAD INCREASE: 1.60

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

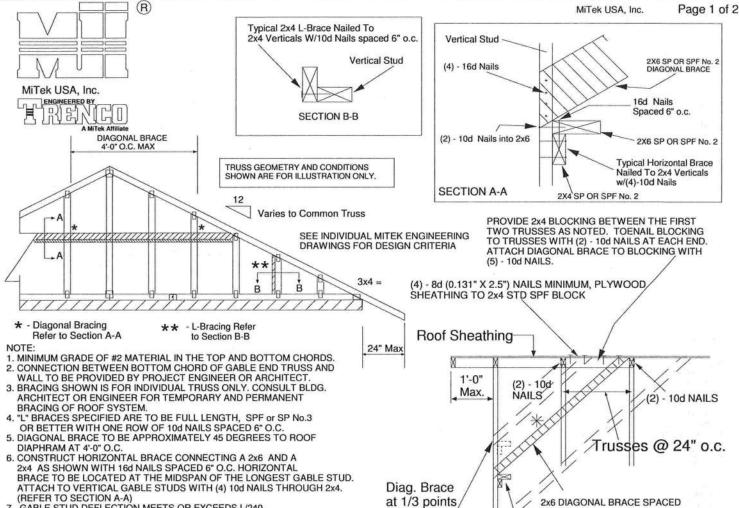


MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

January 19, 2018

Standard Gable End Detail

MII-GE170-D-SP



if needed

End Wall

	BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD.
	ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4.
	(REFER TO SECTION A-A)
7.	GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8.	THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9.	DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR
	TVDE TRUESES

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE

06-01-13 BY SPIB/ALSC. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

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	Length		
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.



2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH

(4) -16d NAILS, AND ATTACHED TO BLOCKING WITH (5) -10d NAILS.

HORIZONTAL BRACE

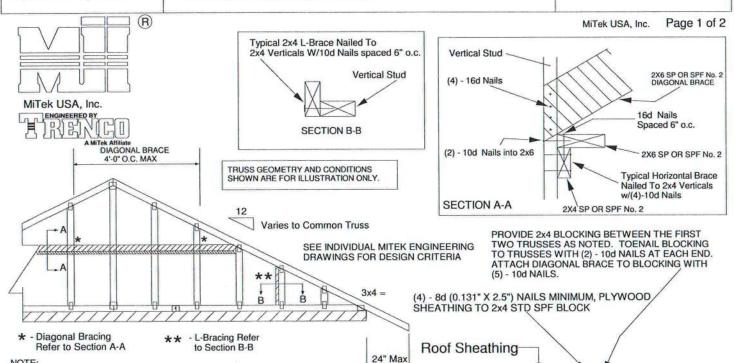
(SEE SECTION A-A)

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

February 12, 2018

Standard Gable End Detail

MII-GE180-D-SP



1'-0"

Max.

Diag. Brace

at 1/3 points

- 10d

NAILS

NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.

CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
 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, SPF or SP No.3

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

(REFER TO SECTION A-A)
GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

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.

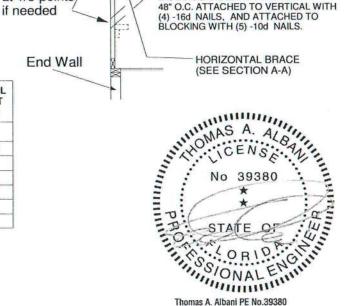
NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS		
Species and Grade	2500	Maximum Stud 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.



2x6 DIAGONAL BRACE SPACED

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

(2) - 10d NAILS

Trusses @ 24" o.c.

February 12, 2018

MiTek USA, Inc. Page 1 of 1

R

MiTek USA, Inc.

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 ASCF 7-10

DURATION OF LOAD INCREASE: 1.60

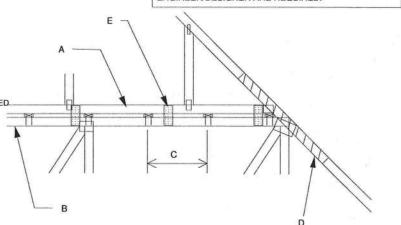
DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
SHALL BE CONNECTED TO EACH PURLIN
WITH (2) (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 2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM

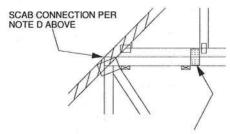
PIGGYBACK SPAN OF 12 ft. E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH

MITEK 3/8 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 REO. REGARDLESS OF SPAN)

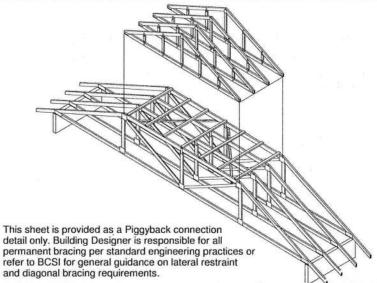


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

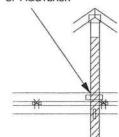
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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.



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.

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.



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

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

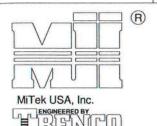
MII-PIGGY-ALT 7-10



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

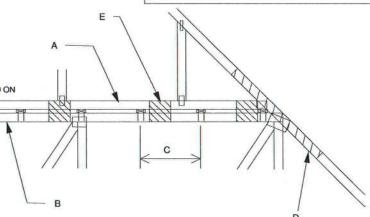
DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.



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 CONTINUIOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:

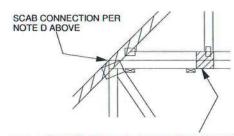
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR 2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM

2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXI PIGGYBACK SPAN OF 12 ft. 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)



WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

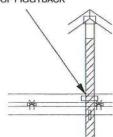
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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)

This sheet is provided as a Piggyback connection 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:

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.)

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.



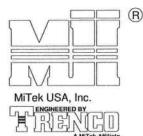
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

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

MII-REP01A1

MiTek USA, Inc.

Page 1 of 1

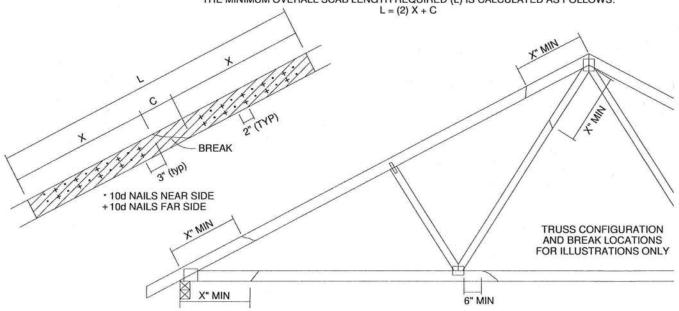


TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		X INCHES	MAXIMUM FORCE (lbs) 15% LOAD DURATION								
			SP		DF		SPF		HF		
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6	
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028	
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608	
32	48	36"	2681	4022	2454	3681	2074	3111	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

NOTES:

- 1. 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.

 2. 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 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.



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

LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP

MiTek USA, Inc.

Page 1 of 1

(R)

MiTek USA, Inc.

DIAM.

NOTES:

- 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.
- 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

TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail) SP SPF-S DF HE SPF 69.9 59.7 88.0 80.6 68.4 63.4 742 72.6 93.5 85.6 108.8 99.6 86.4 84.5 73.8 57.6 50.3 74.2 67.9 58.9 75.9 60.3 59.0 51.1 69.5

.131 135 3.5 .162 LONG .128 131 3.25" 64.6 63.2 52.5 81.4 74.5 .148

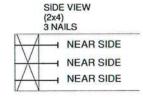
SIDE VIEW (2x3) 2 NAILS NEAR SIDE NEAR SIDE

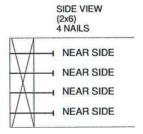
VALUES SHOWN ARE CAPACITY PER TOE-NAIL. APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

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

For load duration increase of 1.15:

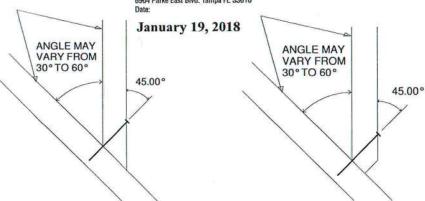
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

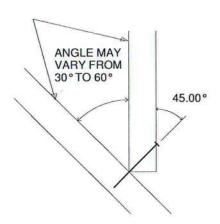






Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610



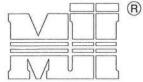


TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

MiTek USA, Inc.

Page 1 of 1

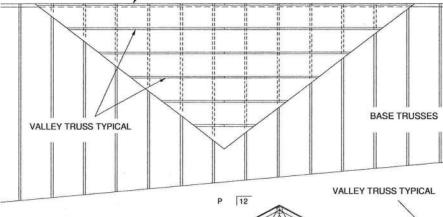


MiTek USA, Inc.

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
- 4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 5. 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.



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

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



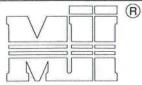
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd, Tampa FL 33610

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2

MiTek USA, Inc.

Page 1 of 1



MiTek USA, Inc.

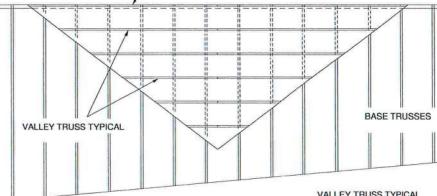
ENGINEERED BY

A MITCH Affiliat

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 (24" O.C. MAXIMUM) A
- 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.

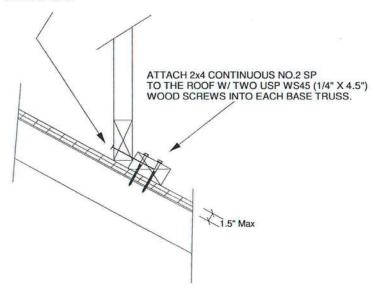


VALLEY TRUSS TYPICAL

GABLE END, COMMON TRUSS OR GIRDER TRUSS

SEE DETAIL
A BELOW (TYP.)

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



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

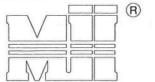
NO 39380

STATE OF THE OF THE

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

MiTek USA, Inc.

Page 1 of 1



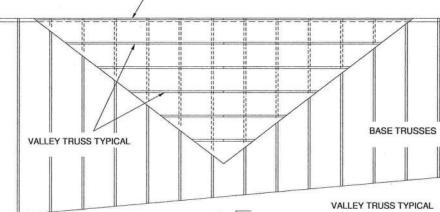
MiTek USA, Inc.

ENGINEERED BY

GABLE END, COMMON TRUSS OR GIRDER TRUSS

GENERAL SPECIFICATIONS

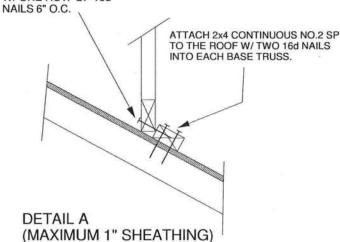
- NAIL SIZE 16d (0.131" X 3.5")
 INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 5. NAILING 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 7-10 150 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12 CATEGORY II BUILDING 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

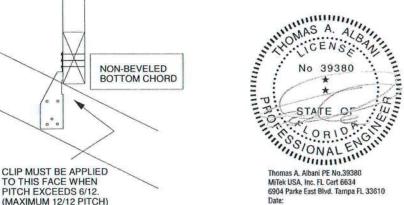


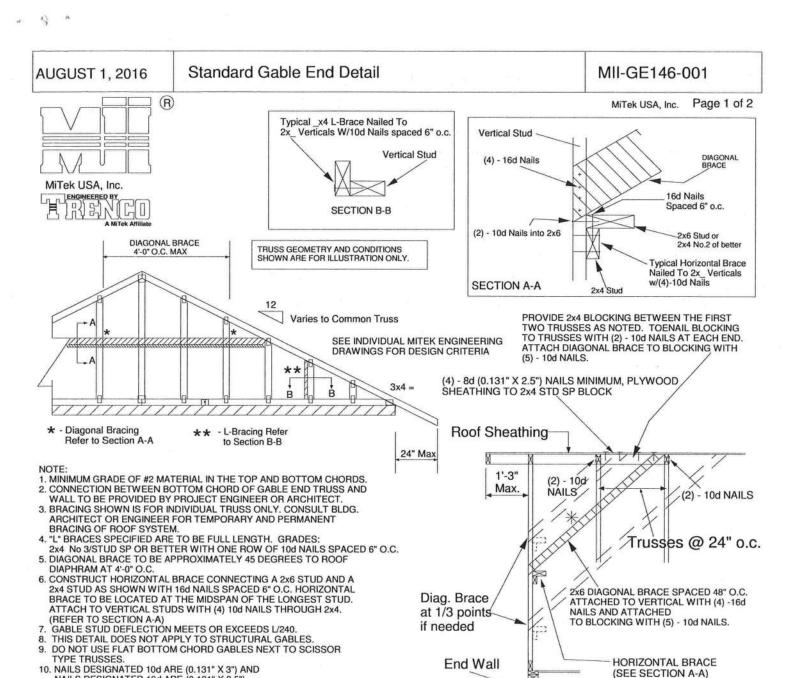
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

TRUSSED VALLEY SET DETAIL MII-VALLEY **AUGUST 1, 2016** (HIGH WIND VELOCITY) Page 1 of 1 NOTE: VALLEY STUD SPACING NOT MiTek USA, Inc. R TO EXCEED 48" O.C. SPACING MiTek USA, Inc. ENGINEERED BY FOR BEVELED BOTTOM CHORD, CLIP MAY BE APPLIED TO EITHER FACE CLIP MAY BE APPLIED TO THIS FACE UP TO A MAXIMUM 6/12 PITCH ATTACH VALLEY TRUSSES TO LOWER TRUSSES WITH **USP RT7 OR EQUIVALENT** 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 CATEGORY II BUILDING NON-BEVELED BOTTOM CHORD EXPOSURE B or C WIND DURATION OF LOAD INCREASE: 1.6 MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY) SUPPORTING TRUSSES DIRECTLY UNDER VALLEY TRUSSES MUST BE DESIGNED WITH A MAXIMUM UNBRACED LENGTH OF NON-BEVELED 2'-10" ON AFFECTED TOP CHORDS. **BOTTOM CHORD**

NOTES:

- SHEATHING APPLIED AFTER INSTALLATION OF VALLEY TRUSSES
- THIS DETAIL IS NOT APPLICABLE FOR SPF-S SPECIES LUMBER.





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

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

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.



6904 Parke East Blvd, Tampa FL 33610

OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B

MiTek USA, Inc.

Page 1 of 1

(R)

MiTek USA, Inc.



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

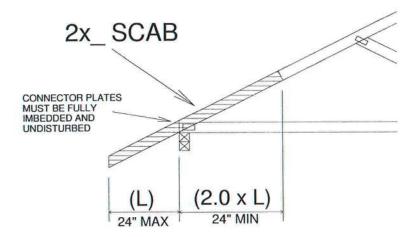
END BEARING CONDITION

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.

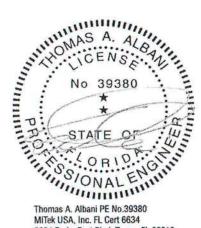
3. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.



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



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

LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

MiTek USA, Inc.

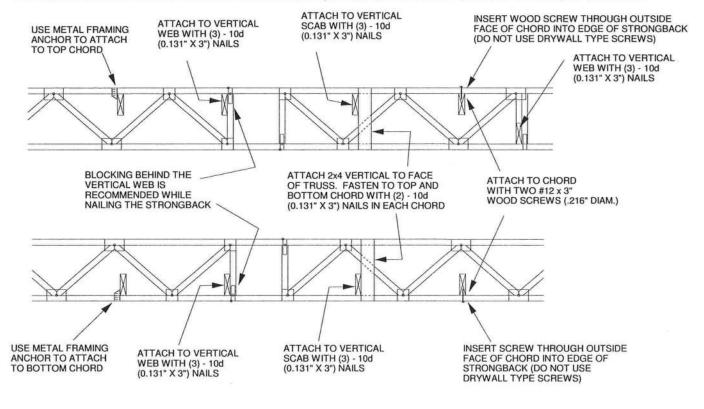
Page 1 of 1

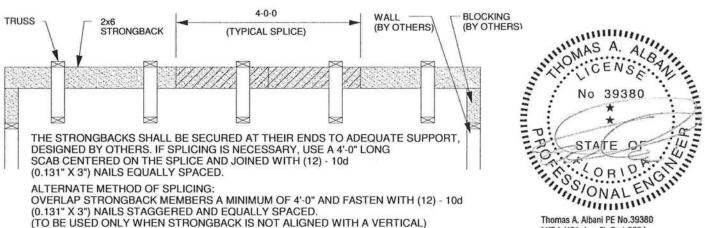


TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

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.





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

