

RE: 2802418

SIMQUE - LOT 145 PLL

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer: Aaron Simque Homes Project Name: 2802418 Lot/Block: 145 Project Name: 2802418 Model: 1995 Ele

Address: TBD

Model: 1995 Elev B

Subdivision: The Preserve at Laurel Lake

City: Columbia Cty

State: FL

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

Design Code: FBC2020/TPI2014

Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-16

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

Roof Load: 37.0 psf This package includes 35 individual, dated Truss Design Drawings and 0 Additional Drawings.

With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet

conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T23987276	CJ01	5/19/2021	21	T23987296	T12	5/19/2021
2	T23987277	CJ03	5/19/2021	22	T23987297	T12G	5/19/2021
3	T23987278	CJ05	5/19/2021	23	T23987298	T13	5/19/2021
4	T23987279	EJ01	5/19/2021	24	T23987299	T14	5/19/2021
5	T23987280	EJ02	5/19/2021	25	T23987300	T14G	5/19/2021
6	T23987281	HJ10	5/19/2021	26	T23987301	V01	5/19/2021
7	T23987282	PB01	5/19/2021	27	T23987302	V02	5/19/2021
8	T23987283	PB02	5/19/2021	28	T23987303	V03	5/19/2021
9	T23987284	T01	5/19/2021	29	T23987304	V04	5/19/2021
10	T23987285	T02	5/19/2021	30	T23987305	V05	5/19/2021
11	T23987286	T03	5/19/2021	31	T23987306	V06	5/19/2021
12	T23987287	T04	5/19/2021	32	T23987307	V07	5/19/2021
13	T23987288	T05	5/19/2021	33	T23987308	V08	5/19/2021
14	T23987289	T06	5/19/2021	34	T23987309	V09	5/19/2021
15	T23987290	T07	5/19/2021	35	T23987310 BUIL	WGV10	5/19/2021
16	T23987291	T08	5/19/2021		Receive	red Et	
17	T23987292	T09	5/19/2021		for	To The	
		1.00	Market and the second second				

5/19/2021

5/19/2021

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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.

T10

T11

T11G

Truss Design Engineer's Name: Velez, Joaquin

T23987293

T23987294

T23987295

My license renewal date for the state of Florida is February 28, 2023.

Florida COA: 6634

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IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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

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

May 19, 2021

Velez, Joaquin

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SIMOUE - LOT 145 PLL Job Truss Type Truss Qty Ply T23987276 2802418 CJ01 Jack-Open 1 Job Reference (optional) Builders FirstSource (Jacksonville, FL), 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:16 2021 Page 1 Jacksonville, FL - 32244. ID:RGwSt4cPREnm5p9yfgzNgAycgdx-NcK8GbaSQMEsyNlZ1bYQ7YfC6XnepxlyY3ryROzGK6L 1-6-0 1-0-0 Scale = 1:9.4 3 7.00 12 Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 3x4 = 6904 Parke East Blvd. Tampa FL 33610 Plate Offsets (X,Y)-[2:Edge,0-1-4] LOADING (psf) SPACING-2-0-0 CSI. DEFL 1/d PLATES GRIP in (loc) I/defl 20.0 Plate Grip DOL 0.23 0.00 244/190 TCLL 1.25 TC Vert(LL) >999 240 MT20 TCDL 1.25 BC 0.06 7.0 Lumber DOL Vert(CT) 0.00 >999 180 0.00 BCLL 0.0 Rep Stress Incr WB YES 0.00 Horz(CT) 2 n/a n/a BCDL Code FBC2020/TPI2014 10.0 Matrix-MP FT = 20% Weight: 6 lb LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins. BOT CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

(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-

REACTIONS.

- 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 5 lb uplift at joint 3, 108 lb uplift at joint 2 and 25 lb uplift at joint 4.



SIMOUE - LOT 145 PLL Job Truss Truss Type Qty T23987277 **CJ03** 2802418 Jack-Open Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:17 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGwSt4cPREnm5p9yfgzNgAycgdx-rouWTxb4BgMjaXKlbl4ffmBNGx5eYO?6njbWzrzGK6K 1-6-0 Scale = 1:15.3 JOAQUIN 7.00 12 0-5-4 Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date: 3x4 = Plate Offsets (X,Y)-- [2:Edge,0-1-4] SPACING-2-0-0 CSI. **PLATES** GRIP LOADING (psf) (loc) Plate Grip DOL Vert(LL) 0.01 4-7 >999 240 MT20 244/190 TCLL 20.0 1.25 TC 0.21 Vert(CT) -0.01 >999 180 TCDL 7.0 Lumber DOL 1.25 BC 0.14 WB 0.00 Horz(CT) -0.00 n/a BCLL 0.0 Rep Stress Incr YES n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MP Weight: 12 lb FT = 20%BRACING-LUMBER-Structural wood sheathing directly applied or 3-0-0 oc purlins. TOP CHORD 2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=123(LC 12)

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

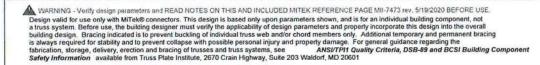
Max Grav 3=67(LC 19), 2=210(LC 1), 4=51(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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
- 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 63 lb uplift at joint 3, 92 lb uplift at joint 2 and 27 lb uplift at joint 4.

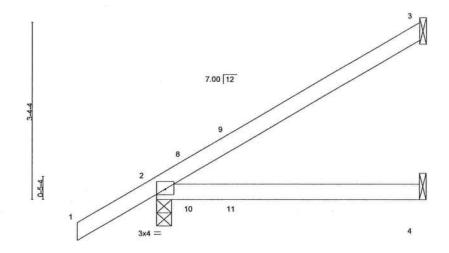
May 18,2021





-1-6-0 | ID:RGwS14cPREnm5p9yfgzNgAycgr -5-0-0 | 5-0-0 |

Scale = 1:21.0



5-0-0

Plate Off	sets (X,Y)	[2:Edge,0-1-4]											
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	Vdefl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	0.11	4-7	>564	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	0.09	4-7	>631	180	W. C.		
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-

- 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
- 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 116 lb uplift at joint 3, 103 lb uplift at joint 2 and 48 lb uplift at joint 4.



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

May 18,2021



Truss Truss Type Qty Ply SIMQUE - LOT 145 PLL Job T23987279 EJ01 Jack-Partial 10 2802418 Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:18 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGwSt4cPREnm5p9yfgzNgAycgdx-J?SvhHciyzUaBgvx90buCzkO0LO2HrFF0NK3VHzGK6J 7-0-0 Scale = 1:26.8 7.00 12 1-1-5 0-5-4 12 3x4 / 7-0-0 Plate Offsets (X,Y)- [2:0-0-15,0-1-8] GRIP PLATES DEFL. LOADING (psf) SPACING-2-0-0 CSI (loc) l/defl L/d 244/190 Plate Grip DOL 240 MT20 TCLL 20.0 1.25 TC 0.85 Vert(LL) 0.32 4-7 >263 >298 180 TCDL 7.0 Lumber DOL 1.25 BC 0.38 Vert(CT) 0.28 4-7 -0.02 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 3 n/a n/a

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

BCDL

TOP CHORD 2x4 SP No.2

10.0

2x4 SP M 31 BOT CHORD

(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.
- 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 147 lb uplift at joint 3, 123 lb uplift at joint 2 and 72 lb uplift at joint 4.



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%

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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 it so prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent exclinate with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <a href="https://doi.org/10.1081/JPH1 Quality Criteria">MSR-89 and BCSI Building Component Safety Information</a> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd

SIMQUE - LOT 145 PLL Joh Truss Truss Type Qty Ply T23987280 5 2802418 EJ02 Jack-Partial Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:19 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGwSt4cPREnm5p9yfgzNgAycgdx-nB0HuddKjHcRpqU8jj67IBHdMkgB0IVPF14d2jzGK6I Scale = 1:26.8 7.00 12 11 90 0-5-4 . 6 2x4 || 3x4 = Plate Offsets (X,Y)--[3:0-0-8,0-2-5] PLATES GRIP LOADING (psf) SPACING-2-0-0 CSI DEFL l/defl L/d 3-5 Plate Grip DOL 1.25 0.62 0.23 >360 240 MT20 244/190 TCLL 20.0 TC Vert(LL) -0.26 180 TCDL 7.0 Lumber DOL 1.25 BC 0.58 Vert(CT) 3-5 >315 BCLL 0.0 Rep Stress Incr WB 0.00 Horz(CT) 0.15 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MR Weight: 27 lb FT = 20% LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

**BOT CHORD** 

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

TOP CHORD 2x4 SP No.2

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

3-6: 2x4 SP No.3

(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-

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 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.
- \* 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 130 lb uplift at joint 4, 121 lb uplift at joint 2 and 29 lb uplift at joint 5.



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

May 18,2021

A 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 and 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 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 Truss Type Qty SIMQUE - LOT 145 PLL Ply T23987281 2802418 HJ10 Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:20 2021 Page 1 9-10-1 4-6-0 Scale = 1:26.3 13 4.95 12 3x4 = 0-5-4 6 14 15 7 2x4 || 3x4 = 53x4 = 4-6-0 SPACING-CSI. DEFL. **PLATES** GRIP LOADING (psf) 2-0-0 l/defl (loc) L/d 20.0 Plate Grip DOL 1.25 TC 0.59 Vert(LL) 0.11 6-7 >999 240 244/190 TCLL MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.60 Vert(CT) -0.12 >999 180 6-7 BCLL 0.0 Rep Stress Incr NO WB 0.39 Horz(CT) -0.01 5 n/a n/a Code FBC2020/TPI2014 BCDL Matrix-MS Weight: 44 lb FT = 20% LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

**BOT CHORD** 

Rigid ceiling directly applied or 6-10-12 oc bracing.

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

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.

TOP CHORD 2-3=-735/546

BOT CHORD 2-7=-618/607, 6-7=-618/607 WEBS 3-7=-147/280, 3-6=-652/664

# 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; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
  to the use of this truss component.
- 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 136 lb uplift at joint 4, 422 lb uplift at joint 2 and 287 lb uplift at joint 5.
- 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, 80 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 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

# LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

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



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 properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 

\*\*ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\*

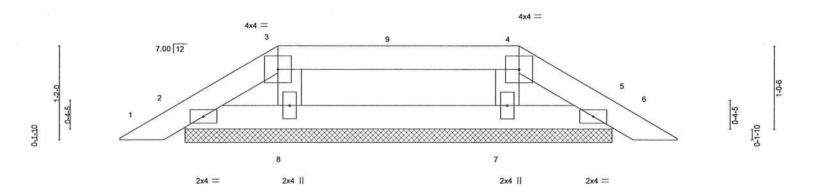
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd. Tampa, FL 36610

Truss Type SIMQUE - LOT 145 PLL Job Truss Qty Ply T23987282 2802418 **PR01** Piggyback Job Reference (optional) Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:21 2021 Page 1 Builders FirstSource (Jacksonville, FL), ID:RGwSt4cPREnm5p9yfgzNgAycgdx-ka81JJebFus928eWq88bqcM4OYU2UCZiiLZj6czGK6G

Scale = 1:13.8



	-					7-0-0 7-0-0						Η
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		
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	10.00					Weight: 20 lb	FT = 20%

LUMBER-

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

WEBS 2x4 SP No.3 BRACING-

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

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

REACTIONS. All bearings 5-3-11.

Max Horz 2=32(LC 11)

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.
- \* 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 designer.



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 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 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/TH1 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 145 PLL Job Truss Truss Type Qty T23987283 PB02 PIGGYBACK 14 2802418 Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:22 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGwSt4cPREnm5p9yfgzNgAycgdx-CmhPXffD0C\_0gIDjOsfqMpvFwyppDfirx\_IHe2zGK6F Scale = 1:14.3 3 7.00 12 0-4-5 0-1-10 2x4 || 2x4 = 2x4 = 7-0-0 LOADING (psf) DEFL. L/d **PLATES** GRIP SPACING-2-0-0 CSI. in (loc) l/defl 1.25 TC 0.15 Vert(LL) 0.00 120 MT20 244/190 20.0 Plate Grip DOL n/r TCLL 1.25 BC 0.07 Vert(CT) 0.00 5 120 n/r TCDL 7.0 Lumber DOL WB 0.03 Horz(CT) 0.00 0.0 Rep Stress Incr YES n/a BCLL n/a Weight: 22 lb FT = 20% Code FBC2020/TPI2014 Matrix-P BCDL 10.0 BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **BOT CHORD** 

**OTHERS** 2x4 SP No.3

(size) 2=5-3-11, 4=5-3-11, 6=5-3-11 REACTIONS.

Max Horz 2=-59(LC 10)

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. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) 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.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 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.



6904 Parke East Blvd. Tampa FL 33610 Date:

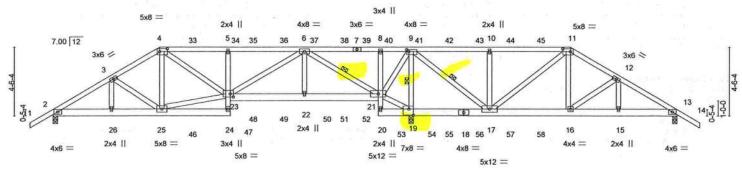
May 18,2021

MARNING - Verify design perameters 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



Jo	b		Truss			Tru	iss Type	- 4			Qty	Ply	SIMQUE - LOT 145 PL	L		
28	02418		T01			HIP	GIRDER				1	1				T23987284
333			122.50			100000	STORY CONTRACTOR	ā					Job Reference (optional	il)		
-	Builders First	Source (Jack	sonville, F	L),	Jacksonville	, FL -	32244,					8.430 s Ap	r 20 2021 MiTek Industrie	es, Inc. Sat May	15 07:26:25	2021 Page 1
										ID:RGv	vSt4cPF	REnm5p9yf	gzNgAycgdx-cLNY9gh5J	7MbXlxl3 DX S	XcE9liQolHo	yXxFNzGK6C
	,-1-6-0,	3-10-4	7-0-	,	11-8-0		16-6-4	Torres.	21-4-8	, 23-6-4	1	28-8-4	34-0-0	37-1-12	41-0-0	42-6-0
	1-6-0	3-10-4	3-1-1	2	4-8-0		4-10-4		4-10-4	2-1-12	1	5-2-0	5-3-12	3-1-12	3-10-4	1-6-0

Scale = 1:72.8



SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

1	3-10-4	7-0-0	1-8-0	16-6-4	21-4-8	23-6-4	28-8-4		34-0-0	37-1-12	41-0-0
	3-10-4	3-1-12	4-8-0	4-10-4	4-10-4	2-1-12	5-2-0	- 1	5-3-12	3-1-12	3-10-4
Plate Offse	ts (X,Y)-	[4:0-6-0,0-2-4], [9:0-1-	12,0-1-8], [11:0	0-6-0,0-2-4], [19	:0-3-8,0-4-12], [2	23:0-2-8,0-2-8					
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
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.20 22-23	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.06 19	n/a	n/a		
BCDL	10.0	Code FBC2020	/TPI2014	Matri	x-MS	to the same of the same of the same				Weight: 27	6 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

WEBS

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

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

Max Horz 2=-159(LC 25)

Max Uplift 2=-933(LC 8), 19=-3206(LC 5), 13=-603(LC 9) Max Grav 2=1356(LC 19), 19=4316(LC 1), 13=773(LC 20)

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

TOP CHORD 2-3=-2194/1560, 3-4=-2041/1559, 4-5=-2314/1724, 5-6=-2331/1731, 6-8=-924/1259,

8-9=-958/1307, 9-10=0/320, 10-11=0/320, 11-12=-900/924, 12-13=-1085/971

BOT CHORD 2-26=-1344/1855, 25-26=-1344/1855, 5-23=-523/452, 22-23=-766/1299, 21-22=-766/1299,

8-21=-384/326, 17-19=-1976/1453, 16-17=-709/767, 15-16=-777/898, 13-15=-777/898

3-25=-308/231, 4-25=-243/390, 23-25=-1124/1552, 4-23=-457/742, 6-23=-1048/1290, 6-22=-68/471, 6-21=-2932/2017, 19-21=-2054/1538, 9-21=-800/1257, 9-19=-2937/2202,

9-17=-1920/2394, 10-17=-618/545, 11-17=-1082/798, 11-16=-526/678, 12-16=-254/217

# NOTES-

- Unbalanced roof live loads have been considered for this design.
   Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
  to the use of this truss component.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=933, 19=3206, 13=603.



Structural wood sheathing directly applied or 3-4-7 oc purlins.

6-21, 9-19, 9-17

Rigid ceiling directly applied or 4-11-6 oc bracing.

1 Row at midpt

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	Qty	Ply	SIMQUE - LOT 145 PLL	T23987284
2802418	T01	HIP GIRDER	1	1		123907204
	1792-517	The second secon	NES III	V/-	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL).

Jacksonville, FL - 32244.

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### 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 19-0-12, 158 lb down and 147 lb up at 11-0-12, 158 lb down and 130 lb up at 15-0-12, 158 lb down and 130 lb up at 15-0-12, 158 lb down and 130 lb up at 19-0-12, 158 lb down and 130 lb up at 19-0-12, 158 lb down and 130 lb up at 19-0-12, 158 lb down and 147 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 25-11-4, 150 lb down and 147 lb up at 25-11-4, 150 lb down and 147 lb up at 25-11-4, and 256 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 15-0-12, 83 lb down and 49 lb up at 15-0-12, 83 lb down and 49 lb up at 19-0-12, 83 lb down and 49 lb up at 25-11-4, 91 lb down and 92 lb up at 27-11-4, 91 lb down and 92 lb up at 27-11-4, 91 lb down and 92 lb up at 27-11-4, 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

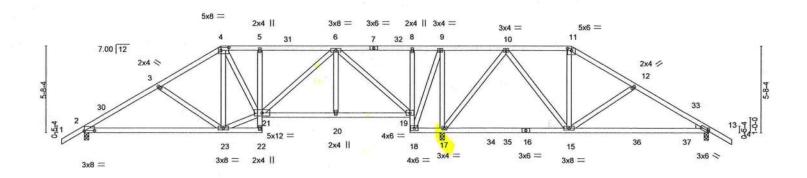
Concentrated Loads (lb)

Vert: 4=-105(F) 11=-179(F) 25=-338(F) 16=-338(F) 33=-105(F) 34=-105(F) 35=-100(F) 36=-100(F) 37=-100(F) 38=-100(F) 39=-100(F) 40=-105(F) 41=-105(F) 42=-105(F) 43=-105(F) 44=-105(F) 45=-105(F) 45=-10



mer verse		145 PLL	SIMQUE - LOT 1	Ply	Qty			ss Type	Tr		S	Truss		Job
T23987				1	1				н			T02		2802418
		optional)	Job Reference (c											
:26:27 2021 Page 1	at May 15 07:26:2	ndustries, Inc. Sat I	20 2021 MiTek In	8.430 s Apr				32244,	sonville, FL	Jac	, FL),	onville,	ource (Jacks	Builders FirstS
ujea4G02KGzGK6A	F?3tc2UzN7ujea4	MjMqkcJm35gBPF?	IgAycgdx-YkVIaM	nm5p9yfgzh	ID:RGwSt4cPF									
0 42-6-0,	41-0-0	36-0-12	32-0-0	7-8-4	23-6-4	21-4-8	0.0	16-6-4	11-8-0	0	9-0-0	- 1	4-11-4	1-1-6-0
4 1-6-0	4-11-4	4-0-12	4-3-12	-2-0	2-1-12	4-10-4		4-10-4	2-8-0	2	4-0-12		4-11-4	1-6-0

Scale = 1:72.8



		9-0-0	11-8-0	16-6-4	21-4-8	23-6-4	3	2-0-0		41-0-0		
		9-0-0	2-8-0	4-10-4	4-10-4	2-1-12	8	-5-12		9-0-0		
Plate Offse	ets (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.		DEFL.	in (loc	:) I/defl	L/d	PLATES	GRIP	10.00
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	0.28 15-2	>741	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	0.24 15-2	9 >864	180	- ATENTO		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.02 1	7 n/a	n/a			
BCDL	10.0	Code FBC2020/	TPI2014	Matri	x-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 2-23=-522/1041, 20-21=-27 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
- 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.
- 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.



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

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

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 properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, crection and bracing of trusses and truss systems, see 

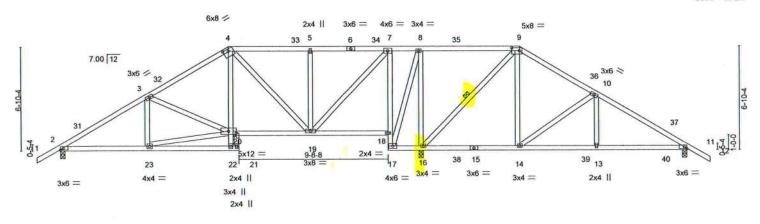
ANSITTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd Tampa, FL 36610

Job		Truss		Tru	iss Type		0	Qty P	ly	SIMQUE - LOT 145 PLL		
Property of the second		SACTOR STATE		10000						1000		T23987286
2802418		T03		HIF	•		1		1			
										Job Reference (optional)		
Builders FirstSc	urce (Jackso	onville, FL),	Jackson	nville, FL -	32244,			8.4	30 s Apr	r 20 2021 MiTek Industries, Inc.	Sat May 15 07:26:	28 2021 Page 1
							ID:RGw	St4cPREn	m5p9yfg	gzNgAycgdx-0w3hnik_b2kAODgs	sk6mEc49B6Nn6d	9cjJwlbsizGK69
-1-6-0,	5-8-8		11-0-0	11,3-8	16-4-0	21-4-8	, 23-6-4		30-0-0	35-0-9	41-0-0	42-6-0
1-6-0	5-8-8	9.	5-3-8	0-3-8	5-0-8	5-0-8	2-1-12		6-5-12	5-0-9	5-11-7	1-6-0

Scale = 1:72.8



		5-8-8	, 11	1-3-8	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 Offse	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.	);i	DEFL.	in (loc)	l/defi	L/d	PLATES	GRIP
TCLL	20.0		Plate Grip DC	DL	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 In	icr	YES	WB	0.90	Horz(CT)	0.02 11	n/a	n/a		
BCDL	10.0		Code FBC20	20/TPI	2014	Matr	rix-MS					Weight: 258 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

2x4 SP No.2 TOP CHORD

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

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

WEBS

(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.

2-3=-1248/566, 3-4=-945/515, 4-5=-533/410, 5-7=-533/411, 7-8=-69/293, 8-9=-125/514, TOP CHORD

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

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

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

WEBS 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-

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.

- 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, 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:

9-16

10-0-0 oc bracing: 20-22

1 Row at midpt

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

May 18,2021

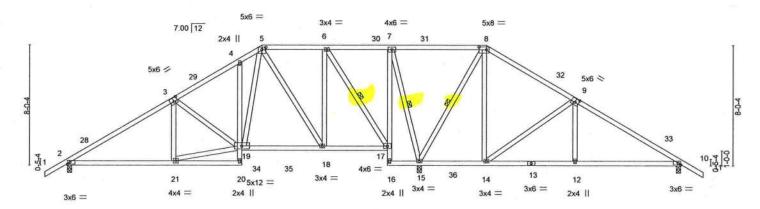
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Comp. 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 145 PLL		/%-%-6-3
2000 440	704			LUID									T23987287
2802418	T04			HIP					1	1			
											Job Reference (optional)		
Builders FirstSource	e (Jacksonville, FL),	Ja	acksonville,	FL - 32244,					8	.430 s Apr	20 2021 MiTek Industries, I	nc. Sat May 15 07:26	5:29 2021 Page 1
								ID:RGwS	t4cPREnm	5p9yfgzN	gAycgdx-V6d3?2kcMMs00N	F3lqHT8lhMtm5PMel	htYaV8O8zGK68
1-1-6-0	7-1-0	- 1	11-8-0	13-0-Q	17-2-4	1	21-4-8	1	28-0-0		33-11-0	41-0-0	A2-6-0,
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



		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		
		7-1-0	4-7-0	5-6-4	4-2-4	2-1-12	4-5-12	1	5-11-0	7-1-0		
Plate Offse	ets (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-	3-0,0-3-0]							
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	0.49	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	and the second		
BCDL	10.0	Code FBC2020/	TPI2014	Matrix	x-MS				107000	Weight: 268 lb	FT = 20%	

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

2x4 SP No.2 TOP CHORD

**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 10)

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. (ib) - Max. Comp./Max. Ten. - All forces 250 (ib) 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, WEBS

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-

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 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
- 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=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.

1 Row at midpt

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

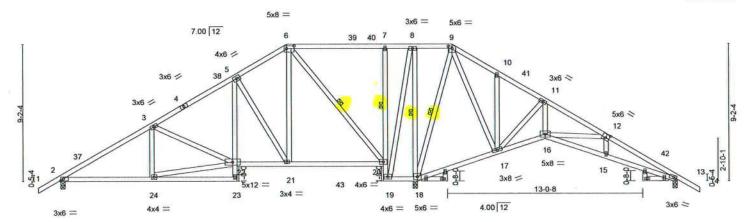
May 18,2021

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 MTTeX® 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 properly 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



SIMOUE - LOT 145 PLL Job Truss Truss Type Qty T23987288 Hip 2802418 T05 Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:31 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-RVkpPjmsuz7kFgPRQFKxEjniVanVqYEA?u\_FT1zGK66 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244. 23-8-0 | 26-0-0 |

Scale = 1:74.1



23-6-4 | 25-8-0 15-0-0 0-1-12 Plate Offsets (X,Y)-[6:0-6-0,0-2-4], [9:0-3-0,0-1-12], [12:0-3-0,0-3-0], [13:0-2-5,0-1-8] SPACINGin (loc) PLATES GRIP LOADING (psf) 2-0-0 CSI -0.09 20-21 240 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.48 Vert(LL) >999 MT20 -0.14 20-21 TCDL Lumber DOL 1.25 BC 0.55 Vert(CT) >999 180 7.0 -0.05 BCLL 0.0 Rep Stress Incr YES WB 0.72 Horz(CT) n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 297 lb FT = 20%

**BRACING-**

WEBS

TOP CHORD

**BOT CHORD** 

1 Row at midpt

1 Row at midpt

23-8-0

LUMBER-

REACTIONS.

2x4 SP No.2 TOP CHORD

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

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

WEBS 2x4 SP No.3

(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)

11-8-0 5-8-0

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

WEBS 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

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.
- 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, 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:

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

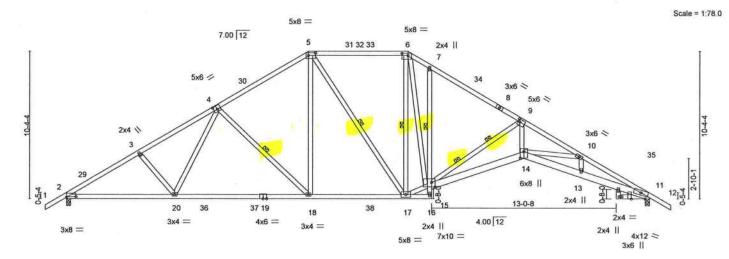
May 18,2021

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REPERENCE - PAGE MINT-47 8W. STYLED BEFORE DOSE. Design valid for use only with MITERS 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 discontinual temperature and parameters and properly designed to properly designed and the overall design parameters and properly designed 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/TH1 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

SIMOUE - LOT 145 PLL Job Truss Truss Type Qty Ply T23987289 PIGGYBACK BASE 2802418 T06 1 Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:33 2021 Page 1 10-7-14 17-0-0 25-8-0 1-8-0 4-0-12



	100	7-7-4	17-0	-0	24-0-0	25-8-0		32-2-4		36-3-0		41-0-0
		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 Offs	sets (X,Y)	[2:0-8-0,0-0-6], [4:0-3-0,0	0-3-0], [5:0-6-0,0	2-4], [6:0-5-0,	0-1-12], [9:0-1-8,0-2-4], [1	4:0-5-8,0-	3-0], [1	5:0-3-0,0	4-0]			
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	.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(C1	0.45	26	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-N	IS					- 3	Weight: 281	lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No 2

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

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

BRACING-TOP CHORD

BOT CHORD

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

Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 7-15

1 Row at midnt WEBS 1 Row at midpt

4-18, 5-17, 6-17 2 Rows at 1/3 pts 9-15

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.

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 WEBS

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-

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

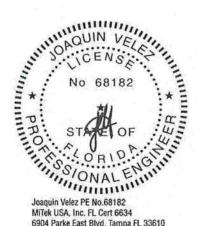
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 17-0-0, Exterior(2R) 17-0-0 to 21-2-15, Interior(1) 21-2-15 to 24-0-0, Exterior(2R) 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) 2=640, 11=640, 11=640.



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

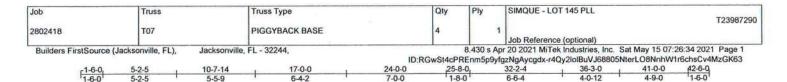
May 18,2021

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 MTER® 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 in to the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 

\*\*ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\*

\*\*available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20501





7-0-0

4-0-12

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.

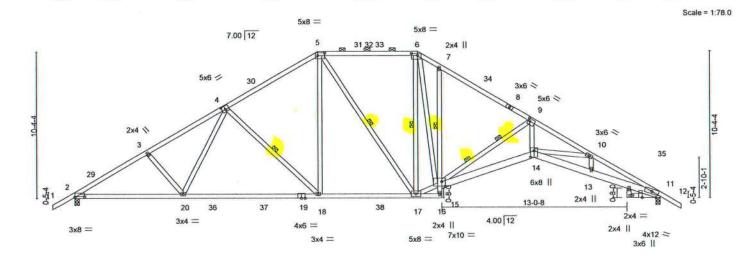
1 Row at midpt

1 Row at midpt

2 Rows at 1/3 pts

4-9-0

6-4-2



	- 1	7-7-4	17-0	0-0	E	24-0-0	25-8-0		32-2-4	F	36-3-0	38-8-8 41-0	
	1	7-7-4	9-4-	12	100	7-0-0	1-8-0		6-6-4	1	4-0-12	2-5-8 2-3-	-8
Plate Offse	ts (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	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)	<b>V</b> defl	L/d	F	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	-0.47	14-15	>999	240	٨	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	Matr	ix-MS	20.00					V	Neight: 281 lb	FT = 20%

BRACING-TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

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

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.

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

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

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) 2=640, 11=640, 11=640.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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



6904 Parke East Blvd. Tampa, FL 36610

SIMOUE - LOT 145 PLL Job Truss Truss Type Qty Ply T23987291 PIGGYBACK BASE 11 2802418 **T08** 1 Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:36 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-nSYiTRq?jVI1MRHPCov6xmUUsbNwVI4v9Ah08EzGK61 17-0-0 41-0-0 25-8-0 1-8-0 32-2-4 36-3-0 7-0-0 Scale = 1:75.6 5x8 = 5x8 = 7.00 12 29 30 31 2x4 || 5x6 / 28 3x6 < 5x6 > 2x4 \ 3x6 < 6x8 II 11 9 2x4 || 13-0-8 18 35 17 36 14 16 15 4.00 12 3x4 = 4x6 = 5x8 = 2x4 || 3x8 = 2x4 || 3x4 = 7x10 = 4x12 < 2x4 = 41-0-0 25-8-0 1-8-0 24-0-0 32-2-4 17-0-0 7-0-0 [1:0-8-0,0-0-2], [3:0-3-0,0-3-0], [4:0-6-0,0-2-4], [5:0-5-0,0-1-12], [8:0-1-8,0-2-4], [12:0-5-8,0-3-0], [13:0-3-0,0-4-0] Plate Offsets (X,Y)-LOADING (psf) SPACING-2-0-0 CSL DEFI l/defl 1 /d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.82 Vert(LL) -0.47 12-13 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1 25 BC 0.98 Vert(CT) -0.81 12-13 >606 180 BCLL 0.0 Rep Stress Incr YES WB 1.00 Horz(CT) 0.46 24 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-MS Weight: 276 lb FT = 20%BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied or 2-1-6 oc purlins, except 2x4 SP No.2 TOP CHORD 2x4 SP M 31 \*Except\* **BOT CHORD** 2-0-0 oc purlins (3-0-7 max.): 4-5 **BOT CHORD** 6-14,10-19: 2x4 SP No.3, 12-13: 2x6 SP No.2, 10-12: 2x6 SP M 26 Rigid ceiling directly applied or 2-2-0 oc bracing. Except: WEBS 2x4 SP No.3 \*Except\* 6-13 1 Row at midpt 8-12: 2x4 SP No.2 WEBS 1 Row at midpt 3-16, 4-15, 5-15 2 Rows at 1/3 pts 8-13 REACTIONS. (size) 1=0-3-8, 10=0-3-8, 10=0-3-8

Max Horz 1=-316(LC 8)

Max Uplift 1=-588(LC 12), 10=-588(LC 13)

Max Grav 1=1713(LC 19), 10=1685(LC 20), 10=1517(LC 1)

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

TOP CHORD 1-2=-2915/1004, 2-3=-2783/989, 3-4=-2072/768, 4-5=-1700/741, 5-6=-2274/976, 6-8=-2338/836, 8-9=-5777/1829, 9-10=-5788/1941

6-8=-2338/836, 8-9=-5/7//1829, 9-10=-5/88/1941 BOT CHORD 1-18=-994/2674, 16-18=-775/2267, 15-16=-461/1746, 6-13=-327/281, 12-13=-1403/5031,

11-12=-1678/5267, 10-11=-1660/5188

3-18=-153/595, 3-16=-734/437, 4-16=-245/878, 5-15=-580/225, 13-15=-353/1808,

5-13=-601/1583, 8-13=-3446/1189, 8-12=-946/3473

# 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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 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 41-0-0 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.

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.
- Bearing at joint(s) 10, 10 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) 1=588, 10=588, 10=588.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

No 68182

No 68182

No 68182

No 68182

Joaquin Velez PE No.68182

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 properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 

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



SIMQUE - LOT 145 PLL Job Truss Truss Type Qty T23987292 2802418 Flat Girder T09 2 Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:40 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-gEnDlotVnkFTq3bARe\_25ceJGCvbRZhU4ofEG?zGK5z 25-6-10 30-7-0 35-7-6 41-0-0 20-6-0 25-6-10 5-0-10 5-0-6 Scale = 1:69.5 6x8 = 4x4 = 4x4 = 7x8 = 7x8 = 4x4 = 4x4 = 6x8 = 5x6 = 10 11 12 3 Δ 5 7 8 9 28 6 0-23 35 41 42 1643 25 <sup>32</sup> 47 14 21 39 160 12 29 30 31 36 22 37 38 2019 17 24 26 27 6x8 = 6x8 = 3x8 || 8x10 = 8x10 = 3x8 II 35-7-6 10-5-0 15-5-6 19-1-12 21-10-4 25-6-10 30-7-0 41-0-0 5-4-10 5-0-6 3-8-6 5-0-6 [5:0-4-0,0-4-8], [7:0-4-0,0-4-8], [13:0-5-4,0-1-8], [14:0-3-8,0-4-4], [15:0-3-8,0-5-8], [17:0-3-8,0-5-8], [19:0-4-0,0-4-12], [21:0-4-0,0-4-12], [22:0-3-8,0-5-8], Plate Offsets (X,Y)-[24:0-3-8,0-5-8], [25:0-3-8,0-4-4], [26:0-5-4,0-1-8] LOADING (psf) SPACING-2-0-0 **PLATES** GRIP CSI. DEFL in (loc) I/defl L/d TCLL 20.0 Plate Grip DOL 1.25 TC 0.22 Vert(LL) 0.10 22-24 >999 240 MT20 244/190 1.25 Lumber DOL BC 0.29 180

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x6 SP No.2 2x8 SP 2400F 2.0E **BOT CHORD** 

7.0

0.0

10.0

2x4 SP No.3 \*Except\* WEBS

2-26,10-13: 2x6 SP No.2

BRACING-

TOP CHORD

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

except end verticals.

>999

n/a

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

n/a

BOT CHORD WEBS

Vert(CT)

Horz(CT)

1 Row at midpt

13

-0.15 22-24

0.02

2-26, 10-13, 5-21, 6-19

Weight: 990 lb

FT = 20%

REACTIONS. (size) 26=0-3-8, 13=0-3-8, 19=(0-3-8 + bearing block) (req. 0-5-5)

Rep Stress Incr

Code FBC2020/TPI2014

Max Uplift 26=-2213(LC 4), 13=-1474(LC 5), 19=-4354(LC 5)

Max Grav 26=4891(LC 30), 13=3297(LC 2), 19=8954(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 2-26=-4257/2001, 2-3=-2307/1041, 3-4=-3187/1429, 4-5=-2541/1109, 5-6=-1145/437,

7-8=-788/409, 8-9=-1662/734, 9-10=-1431/637, 10-13=-2708/1267

NO

WB 0.96

Matrix-MS

24-25=-1041/2307, 22-24=-1429/3187, 21-22=-1107/2538, 19-21=-194/570,

17-19=-408/786, 15-17=-734/1662, 14-15=-637/1431

2-25=-2156/4784, 3-25=-2135/1106, 3-24=-825/1872, 4-24=-564/778, 4-22=-1378/682,

5-22=-1300/3075, 5-21=-3869/1863, 6-21=-1741/3938, 6-19=-4091/1958,

7-19=-2254/1189, 7-17=-885/1970, 8-17=-1907/870, 8-15=-577/1579, 9-15=-266/490,

9-14=-597/397, 10-14=-1313/2958

# NOTES-

WEBS

**BOT CHORD** 

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) 2x8 SP 2400F 2.0E bearing block 12" long at jt. 19 attached to each face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners per block. Bearing is assumed to be SP No.2.
- 4) 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
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- 7) All plates are 7x8 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 26=2213, 13=1474, 19=4354.



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

May 18,2021

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6904 Parke East Blvd.

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 145 PLL	The livest value and the
2802418	т09	Flat Girder	1	2	Job Reference (optional)	23987292

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:40 2021 Page 2 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-gEnDlotVnkFTq3bARe\_25ceJGCvbRZhU4ofEG?zGK5z

### NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 698 lb down and 315 lb up at 2-0-12, 712 lb down and 315 lb up at 4-0-12, 702 lb down and 315 lb up at 6-0-12, 704 lb down and 315 lb up at 10-0-12, 698 lb down and 315 lb up at 12-0-12, 711 lb down and 315 lb up at 14-0-12, 713 lb down and 315 lb up at 14-0-12, 713 lb down and 315 lb up at 12-0-12, 713 lb down and 315 lb up at 20-11-4, 424 lb down and 256 lb up at 22-11-4, 424 lb down and 256 lb up at 20-11-4, 424 lb down and 256 lb up at 22-11-4, 695 lb down and 309 lb up at 30-11-4, 690 lb

## LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-14, 2-3=-54, 3-28=-204(F=-150), 10-28=-54, 10-11=-14, 12-27=-20

Concentrated Loads (lb)

Vert: 29=-600(B) 31=-600(B) 32=-600(B) 33=-600(B) 34=-600(B) 35=-600(B) 36=-600(B) 37=-600(B) 39=-600(B) 40=-600(B) 41=-302(B) 43=-302(B) 44=-585(B) 45=-585(B) 46=-585(B) 47=-585(B) 48=-585(B) 50=-585(B)

Section 1



SIMQUE - LOT 145 PLL Job Truss Truss Type Qty Ply T23987293 2802418 T10 Roof Special Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:41 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGwSt4cPREnm5p9yfgzNgAycgdx-8QLbW8u8X2NJSDAM?LVHeqBQac98A0meISPnoSzGK5y 41-0-0 21-10-4 25-8-0 36-5-6 7-6-4 32-2-4 7-2-0 7-2-0 3-9-12 6-6-4 4-3-2 4-6-10 Scale = 1:79.3 5x8 = 2x4 || 5x8 = 3x4 = 4x6 = 3x6 =2x4 || 4x4 || 3x4 = 10 11 1 2 13 2-10-1 5x8 = 13-0-8 24 18 25 26 15 20 17 16 2x4 || 12 21 3x6 = 4.00 12 5x6 > 3x8 = 2x4 || 6x8 = 2x4 || 2x4 || 3x6 || 2x4 || 5x12 = 7-6-4 7-6-4 7-2-0 [4:0-4-0,0-3-0], [12:0-0-0,0-6-6], [22:0-2-1,0-1-0] Plate Offsets (X,Y)-SPACING-DEFL. **PLATES** LOADING (psf) 2-0-0 CSI in (loc) l/defl L/d 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.50 Vert(LL) -0.19 12-13 >999 240 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.65 Vert(CT) -0.39 12-13 >591 180 0.97 BCLL 0.0 Rep Stress Incr YES WB Horz(CT) -0.04 12 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 374 lb FT = 20% BRACING-LUMBER-2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD **BOT CHORD** 2x4 SP No.2 \*Except\* except end verticals. 6-15,12-22: 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. Except:

WEBS

1 Row at midpt

1 Row at midpt

6-14

9-12

WEBS 2x4 SP No.3 \*Except\*

2-20,10-12: 2x6 SP No.2, 2-19,4-19,4-16: 2x4 SP No.2

REACTIONS. (size) 20=0-3-8, 12=0-3-8, 16=0-3-8

Max Horz 20=-509(LC 10)

Max Uplift 20=-462(LC 8), 12=-307(LC 9), 16=-915(LC 9) Max Grav 20=852(LC 2), 12=619(LC 2), 16=1950(LC 2)

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

2-20=-677/615, 2-3=-371/322, 3-4=-371/322, 6-8=-325/338, 8-9=-325/338

**BOT CHORD** 19-20=-504/526, 17-19=-408/423, 16-17=-408/423, 6-14=-577/495, 13-14=-255/237,

12-13=-302/328

2-19=-536/627, 3-19=-403/423, 4-19=-257/268, 4-17=0/418, 4-16=-931/680,

5-16=-905/702, 14-16=-297/375, 5-14=-433/689, 6-13=-295/448, 8-13=-322/338,

9-13=-214/300, 9-12=-485/472

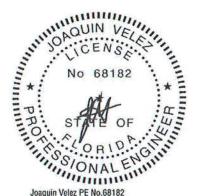
# NOTES-

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 and C-C Corner(3) 0-0-0 to 4-0-0, Exterior(2) 4-0-0 to 37-0-0, Corner(3) 37-0-0 to 41-0-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=462, 12=307, 16=915.



2-20, 10-12, 2-19, 3-19, 4-19, 4-16, 5-16,

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

May 18,2021

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SIMQUE - LOT 145 PLL Job Truss Truss Type Qty Ply T23987294 T11 Jack-Closed 11 2802418 Job Reference (optional) Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:42 2021 Page 1 Builders FirstSource (Jacksonville, FL), ID.RGwSt4cPREnm5p9yfgzNgAycgdx-ccvzjUumILVA4MIZZ20WA1kax0SRvfFnX68KLuzGK5x4-9-2 Scale = 1:56.7 2x4 || 5 6 7.00 12 5x6 / 8 5x8 3x6 = 3x6 = 7-10-14 16-4-6 Plate Offsets (X,Y)-[3:0-3-0,0-3-0], [9:0-4-0,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) l/defl 1./d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.53 Vert(LL) -0.228-9 >901 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.84 Vert(CT) -0.338-9 >591 180 BCLL 0.0 Rep Stress Incr NO WB 0.25 Horz(CT) 0.01 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 98 lb FT = 20%BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied or 4-10-4 oc purlins,

BOT CHORD

WEBS

except end verticals.

1 Row at midpt

Rigid ceiling directly applied or 8-7-12 oc bracing

5-8, 4-8

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

WEBS 2x4 SP No 3

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

Max Horz 2=420(LC 12)

Max Uplift 2=-249(LC 12), 8=-295(LC 12) Max Grav 2=942(LC 19), 8=850(LC 19)

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

TOP CHORD

2-3=-1143/177, 3-4=-884/130 2-9=-444/1017 8-9=-168/402

**BOT CHORD** 

3-9=-396/287, 4-9=-199/758, 4-8=-708/304

# WEBS NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp 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 16-4-6 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, with BCDL = 10.0psf.
- 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) 157 lb down and 72 lb up at 2-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

# LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-54, 5-6=-14, 7-10=-20

Concentrated Loads (lb)

Vert: 14=-150



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 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/TH1 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 145 PLL Job Truss Truss Type Qty Ply T23987295 2802418 GABLE Job Reference (optional) Builders FirstSource (Jacksonville, FL), 8,430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:43 2021 Page 1 Jacksonville FI - 32244 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-4pTLxqvO3fd1hWKl7mXljFGoJQ\_Ee7ixmmuutKzGK5w 1-6-0 16-4-6 16-4-6 7.00 12 Scale = 1:50.0 10 20 9 3x6 / 8 7 6 5 4x8 = 18 17 16 15 14 13 12 5x6 = 16-4-6 16-4-6 Plate Offsets (X,Y)-[2:0-3-7,0-1-15], [16:0-3-0,0-3-0] LOADING (psf) SPACING-DEFL. I/defl **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.36 Vert(LL) 0.01 120 MT20 244/190 n/r TCDL 1.25 BC 0.10 Vert(CT) 0.01 120 7.0 Lumber DOL n/r BCLL 0.0 Rep Stress Incr YES WB 0.18 Horz(CT) 0.00 n/a 16 n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-S Weight: 116 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

WEBS

2x4 SP No 3 WEBS

2x4 SP No.3 **OTHERS** 

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

1 Row at midpt 11-12

REACTIONS. All bearings 16-4-6.

> Max Horz 2=504(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 12 except 18=-116(LC 12), 17=-103(LC 12), 16=-106(LC 12),

15=-105(LC 12), 14=-101(LC 12), 13=-120(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 12, 17, 16, 15, 14, 13 except 2=266(LC 1), 18=257(LC 19)

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

TOP CHORD 2-4=-559/285, 4-5=-461/215, 5-6=-387/184, 6-8=-306/142

- 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 Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 16-2-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 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) 12 except (jt=lb) 18=116, 17=103, 16=106, 15=105, 14=101, 13=120.



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 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 ANSITPH 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 145 PLL Job Truss Truss Type Qty T23987296 2802418 T12 Jack-Closed Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:44 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-Y?1k8Aw0qyluJguxgT3\_FSpwupA4NZs4?QdRPnzGK5v 11-7-4 16-4-6 4-9-2 Scale = 1:55.9 2x4 || 4 5 7.00 12 3x4 / 3 5x6 / AAA 8 15 16 6 5x8 = 3x6 = 3x6 = 7-10-14 Plate Offsets (X,Y)-[2:0-3-0,0-3-0], [8:0-4-0,0-3-0] SPACING-LOADING (psf) 2-0-0 CSI. DEFL PLATES GRIP in (loc) I/defl 1/d 20.0 TCLL Plate Grip DOL 0.50 -0.22 244/190 1.25 TC Vert(LL) >865 7-8 240 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.77 Vert(CT) -0.357-8 >557 180 0.0 0.25 BCLL Rep Stress Incr WB YES 0.01 Horz(CT) n/a n/a BCDL Code FBC2020/TPI2014 10.0 Matrix-MS Weight: 95 lb FT = 20% BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

REACTIONS.

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

2x4 SP No.3

(size) 1=0-3-8, 7=Mechanical

Max Horz 1=383(LC 12)

Max Uplift 1=-131(LC 12), 7=-289(LC 12) Max Grav 1=722(LC 19), 7=835(LC 19)

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

TOP CHORD

1-2=-1005/135, 2-3=-851/119

**BOT CHORD** 

1-8=-420/955, 7-8=-164/392

WEBS

2-8=-346/268, 3-8=-184/714, 3-7=-688/297

# 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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 16-4-6 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.
- \* 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.
- 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) 1=131, 7=289.



Structural wood sheathing directly applied or 5-7-13 oc purlins,

4-7.3-7

Rigid ceiling directly applied or 8-11-3 oc bracing.

except end verticals

1 Row at midpt

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

May 18,2021

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\*\*ABSITTEN 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 145 PLL Qty Truss Type Ply Truss Job T23987297 GABLE 2802418 T12G Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:45 2021 Page 1 Builders FirstSource (Jacksonville, FL). Jacksonville, FL - 32244 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-1Ba6LWxebGtlxqT8EBaDogMBiDge61CED3N?xDzGK5u 16-4-6 16-4-6 7.00 12 Scale = 1:49.5 9 19 3x6 % 7 6 5 3x4 / 4x8 = 17 16 15 14 13 12 11 5x6 = Plate Offsets (X,Y)- [1:Edge,0-1-15], [15:0-3-0,0-3-0] PLATES GRIP LOADING (psf) SPACING-2-0-0 CSI DEFI in (loc) I/defl 1 /d 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.11 Vert(LL) n/a n/a 999 MT20 7.0 Lumber DOL 1.25 BC 0.11 Vert(CT) n/a n/a 999 TCDL BCLL 0.0 Rep Stress Incr YES WB 0.18 Horz(CT) 0.00 15 n/a n/a FT = 20% Weight: 114 lb BCDL 10.0 Code FBC2020/TPI2014 Matrix-S BRACING-LUMBER-Structural wood sheathing directly applied or 6-0-0 oc purlins, 2x4 SP No.2 TOP CHORD TOP CHORD 2x4 SP No.2 except end verticals. **BOT CHORD BOT CHORD** 

WEBS

2x4 SP No.3 WEBS 2x4 SP No.3 **OTHERS** 

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

1 Row at midpt 10-11

REACTIONS. All bearings 16-4-6.

(lb) - Max Horz 1=460(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 11, 16 except 17=-149(LC 12), 15=-108(LC 12), 14=-105(LC 12),

13=-102(LC 12), 12=-121(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 11, 1, 16, 15, 14, 13, 12 except 17=287(LC 19)

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

1-3=-567/281, 3-4=-458/214, 4-5=-388/183, 5-7=-306/142 TOP CHORD

- 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 Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 16-2-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) 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.
- 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) 11, 16 except (it=lb) 17=149, 15=108, 14=105, 13=102, 12=121.



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

May 18,2021

Marking - 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 

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



Job Truss Truss Type Qty Ply SIMQUE - LOT 145 PLL T23987298 2802418 T13 Jack-Closed 3 1 Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:46 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-VN8UZsxGMa0cY\_2Kou5SLtuGKdrLrTnNSj6YUfzGK5t 16-4-6 6-5-0 4-9-2 Scale = 1:56.4 2x4 || 4 5 7.00 12 15 3 5x6 / 954 16 8 17 18 6 5x8 = 3x6 = 2x4 || 3x6 = 5-2-4 7-10-14 0-2-4 2-8-10 8-5-8 Plate Offsets (X,Y)-[2:0-3-0,0-3-0], [8:0-4-0,0-3-0] LOADING (psf) SPACING-CSI. DEFL. I/defl L/d PLATES GRIP 2-0-0 in (loc) MT20

TCLL 20.0 Plate Grip DOL 1.25 TC 0.50 Vert(LL) -0.21 7-8 >619 240 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.72 Vert(CT) -0.347-8 >382 180 BCLL 0.0 Rep Stress Incr YES WB 0.22 -0.00 Horz(CT) n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-MS Weight: 100 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3

(size) 9=0-3-8, 7=Mechanical

Max Horz 9=383(LC 12)

Max Uplift 9=-194(LC 12), 7=-236(LC 14)

Max Grav 9=961(LC 2), 7=515(LC 19)

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

TOP CHORD

1-2=-372/383

1-9=-266/361, 8-9=-329/66

**BOT CHORD** WEBS

2-9=-914/302, 2-8=-20/519, 3-7=-302/227

# 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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 16-4-6 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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) 9=194, 7=236.



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

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

except end verticals.

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

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ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Comp Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty SIMOUE - LOT 145 PLL T23987299 2802418 T14 Common Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:47 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 4-6-7 9-11-0 4-6-7 1-6-0 Scale = 1:40.0 4x6 || 7.00 12 2x4 \ 2x4 // 10 9 3x4 = 3x6 = 3x4 = 3x6 = 3x6 = 12-10-4 6-11-12 5-10-8 6-11-12 Plate Offsets (X,Y)-[2:0-6-0,0-0-2], [6:0-6-0,0-0-2] SPACING-DEFL. **PLATES** GRIP LOADING (psf) 2-0-0 CSI (loc) I/defl L/d Plate Grip DOL 0.12 10-13 244/190 20.0 1.25 TC 0.40 Vert(LL) >999 240 MT20 TCLL 7.0 Lumber DOL 1.25 BC 0.42 Vert(CT) -0.11 10-13 >999 180 TCDL 0.0 Rep Stress Incr YES WB 0.53 Horz(CT) 0.02 BCLL n/a n/a Code FBC2020/TPI2014 Weight: 98 lb FT = 20% BCDL 10.0 Matrix-MS

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEBS 2x4 SP No.2 2x4 SP No.3

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)

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

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

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

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=331, 6=331.



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

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

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

May 18,2021



SIMQUE - LOT 145 PLL Job Truss Truss Type Qty Ply T23987300 2802418 T14G GABLE 1 Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:48 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-RmGE\_YzXuBGKoHCivJ7wQl\_a4RccJHagv1bfYYzGK5r 15-3-9 19-10-0 21-4-0 9-11-0 -1-6-0 21-4-0 1-6-0

Scale = 1:39.1

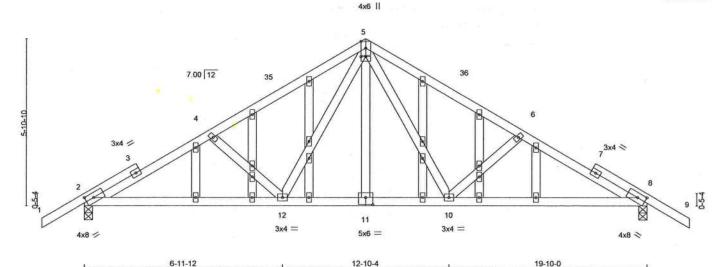


Plate Off	sets (X,Y)-	[2:0-3-7,0-1-15], [5:0-2-0	-11-12 ,0-0-0], [8:0-3-7	7,0-1-15], [11	:0-3-0,0-3-0	5-10-8				6-11-12		
LOADIN		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	0.12 10-34	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.10 12-31	>999	180			
BCLL	0.0 * 10.0	Rep Stress Incr Code FBC2020/T	YES PI2014	WB Matri	0.52 x-MS	Horz(CT)	0.02 8	n/a	n/a	Weight: 136 lb	FT = 20%	

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

**OTHERS** 

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

2x4 SP No.3

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

**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 100 lb uplift at joint(s) except (jt=lb) 2=334, 8=334.



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

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

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, 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 ASI/TH1 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 145 PLL Job Truss Truss Type Qty T23987301 GABLE 2802418 V01 Job Reference (optional)

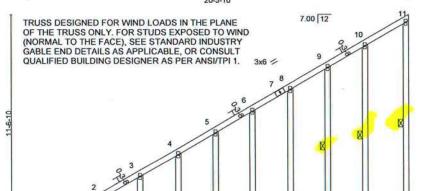
Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

3x6 /

8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:49 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-vyqdBt\_9fVOBPRnvT0e9yWWtfq2G2qpp8hLC5\_zGK5q

Scale = 1:59.2



20-3-10 20-3-10

19

18

5x6 =

20

[18:0-3-0,0-3-0] Plate Offsets (X,Y)-LOADING (psf) GRIP SPACING-CSL DEFL PLATES 2-0-0 in (loc) l/defl L/d 244/190 20.0 Plate Grip DOL 999 TCLL 1.25 TC 0.11 Vert(LL) n/a n/a MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.06 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.14 0.00 Horz(CT) 18 n/a n/a Code FBC2020/TPI2014 Matrix-S Weight: 145 lb FT = 20% BCDL 10.0

17

16

15

14

13

LUMBER-

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

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

2x4 SP No.3 **OTHERS** 

BRACING-TOP CHORD

WEBS

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

12

except end verticals. **BOT CHORD** 

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

1 Row at midpt

11-12, 9-14, 10-13

REACTIONS. All bearings 20-3-10.

Max Horz 1=555(LC 12) (lb)

Max Uplift All uplift 100 lb or less at joint(s) 12, 1, 19 except 20=-159(LC 12), 18=-109(LC 12), 17=-104(LC 12),

16=-105(LC 12), 15=-105(LC 12), 14=-103(LC 12), 13=-118(LC 12)

All reactions 250 lb or less at joint(s) 12, 20, 19, 18, 17, 16, 15, 14, 13 except 1=261(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-604/339, 2-3=-508/279, 3-4=-449/250, 4-5=-378/210, 5-6=-311/174

# 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) 1-0-8 to 4-0-0, Interior(1) 4-0-0 to 20-1-14 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 1, 19 except (jt=lb) 20=159, 18=109, 17=104, 16=105, 15=105, 14=103, 13=118.



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May 18,2021

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6904 Parke East Blvd Tampa, FL 36610

SIMOUE - LOT 145 PLL Job Truss Truss Type Qty Ply T23987302 2802418 V02 GABLE 1 Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:50 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-N9O?PD?nQoW21bM51kAOVj31hEMhnGmzNL4mdQzGK5p 18-3-10 Scale = 1:54.8 7.00 12 3x6 / 3x6 / 13 12 10 9 8 11 3x6 = 18-3-10 18-3-10 SPACING-LOADING (psf) 2-0-0 CSI DEFL in I/defl L/d **PLATES** GRIP Plate Grip DOL TC BC TCLL 20.0 1.25 0.16 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 7.0 Lumber DOL 1 25 0.18 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.22 Horz(CT) -0.00 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-S Weight: 104 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 6-0-0 oc bracing.

WEBS

1 Row at midnt

7-8, 6-9

2x4 SP No.3 WEBS

OTHERS 2x4 SP No 3

All bearings 18-3-10. (lb) - Max Horz 1=511(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 8, 1 except 13=-218(LC 12), 12=-206(LC 12), 10=-217(LC 12),

9=-178(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 8, 1 except 13=401(LC 19), 12=411(LC 19), 10=468(LC 19), 9=365(LC 19)

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

TOP CHORD **WEBS** 

REACTIONS.

1-2=-550/311, 2-4=-416/236, 4-5=-283/164 2-13=-255/236, 5-10=-256/241

# 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 18-1-14 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) 8, 1 except (jt=lb) 13=218, 12=206, 10=217, 9=178.



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May 18,2021

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SIMQUE - LOT 145 PLL Job Truss Truss Type Qty T23987303 2 2802418 V03 Valley Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:51 2021 Page 1 ID: RGwSt4cPREnm5p9yfgzNgAycgdx-rLyNcZ?PB6evflxHbRhd2xcCGehgWjf6c?qJ9tzGK5o16-3-10 Scale = 1:54.2 2x4 || 7.00 12 2x4 || 2x4 || 3x6 / 2x4 || 3x6 / 10 9 8 2x4 || 5x6 = 2x4 || 2x4 || 16-3-10 Plate Offsets (X,Y)- [9:0-3-0,0-3-0] SPACING-**PLATES** LOADING (psf) CSI. DEFL L/d 2-0-0 in (loc) I/defl 244/190 20.0 Plate Grip DOL 1.25 TC 0.17 Vert(LL) n/a 999 MT20 n/a TCLL 1.25 BC 0.19 Vert(CT) 999 Lumber DOL n/a n/a 7.0 TCDL Rep Stress Incr YES WB 0.24 Horz(CT) 0.00 n/a 0.0 n/a BCLL Weight: 84 lb Code FBC2020/TPI2014 Matrix-S 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** 

WEBS

except end verticals.

1 Row at midpt

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

6-7

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

2x4 SP No.3

**OTHERS** 

REACTIONS. All bearings 16-3-3

Max Horz 1=453(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 7, 1 except 8=-226(LC 12), 9=-201(LC 12), 10=-229(LC 12) Max Grav All reactions 250 lb or less at joint(s) 7, 1 except 8=491(LC 19), 9=400(LC 19), 10=422(LC 19)

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

TOP CHORD WEBS

1-2=-476/279, 2-4=-336/196 5-8=-269/253, 2-10=-268/247

# 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 16-1-14 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 1 except (jt=lb) 8=226, 9=201, 10=229.



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May 18,2021

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Builders FirstSource	(Jacksonville, FL), Jac	ksonville, FL - 32244,		8.430 s Ap	Job Reference (optional) r 20 2021 MiTek Industries, Inc. Sat May 15 0	7:26:52 2021 Page 1
2802418	V04	Valley	2	1		T23987304
Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 145 PLL	

2x4 || 2x4 || 7.00 12 2x4 || 3x6 / 2x4 || 2x4 || 2x4 ||

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	n/a		n/a	999	140791000	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S						Weight: 69 lb	FT = 20%

LUMBER-

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

WEBS 2x4 SP No.3 2x4 SP No.3 **OTHERS** 

BRACING-TOP CHORD

WEBS

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

except end verticals. BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 4-5

REACTIONS. All bearings 14-3-3.

(lb) - Max Horz 1=395(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 5 except 6=-189(LC 12), 7=-309(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=421(LC 19), 7=588(LC 19)

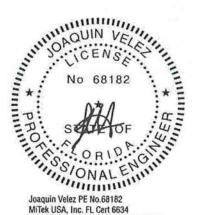
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-2=-379/243 TOP CHORD

WEBS 2-7=-356/325

# 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 14-1-14 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads,
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 6=189, 7=309.



Scale: 1/4"=1"

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May 18,2021

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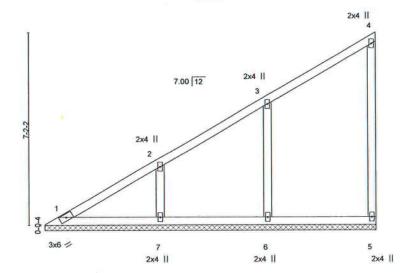
Job Truss Truss Type Qty SIMQUE - LOT 145 PLL T23987305 2802418 V05 Valley Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:53 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-ok371F1fjjucu34gisj57MhYuSNf\_fHP3JJQElzGK5m

Scale = 1:41.2



LOADING (psf)	SPACING- 2-0-0 Plate Grip DOL 1.25	CSI. TC 0.16	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES GR MT20 244	RIP 4/190
TCLL 20.0 TCDL 7.0	Plate Grip DOL 1.25 Lumber DOL 1.25	BC 0.16	Vert(CT)	n/a	-	n/a	999	W1120 24	#1190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code FBC2020/TPI2014	WB 0.10 Matrix-S	Horz(CT)	0.00	5	n/a	n/a	Weight: 58 lb	FT = 20%

LUMBER-

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

BRACING-TOP CHORD

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

except end verticals. **BOT CHORD** 

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

1

REACTIONS. All bearings 12-3-3.

(lb) - Max Horz 1=337(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 5 except 6=-220(LC 12), 7=-225(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=444(LC 19), 7=411(LC 19)

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

TOP CHORD

1-2=-348/228

WEBS 3-6=-263/255, 2-7=-262/248

# 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 12-1-14 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.
- Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 6=220, 7=225.



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May 18,2021

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



6904 Parke East Blvd Tampa, FL 36610

 Job
 Truss
 Truss Type
 Qty
 Ply
 SIMQUE - LOT 145 PLL
 T23987306

 2802418
 V06
 Valley
 2
 1
 Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:53 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-ok371F1fjjucu34gisj57MhVnSLv\_fNP3JJQEIzGK5m

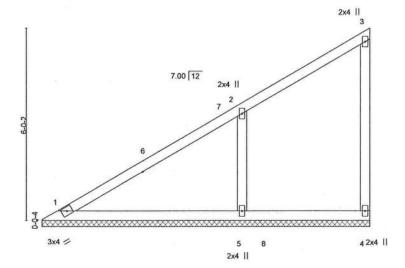
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

10-3-10 10-3-10

Scale = 1:34.7



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	n/a	_	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	n/a	-	n/a	999	100000000	
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S						Weight: 45 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3

(size) 1=10-3-3, 4=10-3-3, 5=10-3-3

Max Horz 1=242(LC 12)

Max Uplift 4=-36(LC 14), 5=-272(LC 12)

Max Grav 1=185(LC 20), 4=134(LC 19), 5=620(LC 19)

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

WEBS 2-5=-373/329

# 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 10-1-14 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=272.



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

\*\*AMSUTPH1 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 145 PLL	
- CANCELLA CONTRACTOR	and the second	(500) 60 (40 (60 (40 (40 (40 (40 (40 (40 (40 (40 (40 (4	1	157		T23987307
2802418	V07	Valley	2	1		
				A CONTRACTOR	Job Reference (optional)	
Builders FirstSour	rce (Jacksonville, FL), Ja	acksonville, FL - 32244,		8.430 s Ap	r 20 2021 MiTek Industries, Inc. Sat May 15 07:26:55 2	2021 Page 1
			ID-DCCH-DDE-	EnOrdankle	Augady VCD, Cy2mEL 9V7ME2aUI7Com/4E2IMC75IM	HoVIOTCKEL

8-3-10 8-3-10

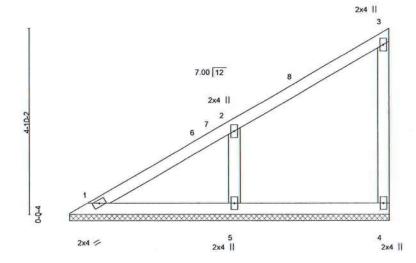
1

except end verticals.

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

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

Scale = 1:28.8



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	n/a		n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S						Weight: 35 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

(size) 1=8-3-3, 4=8-3-3, 5=8-3-3

Max Horz 1=202(LC 12) Max Uplift 4=-50(LC 12), 5=-227(LC 12)

Max Grav 1=108(LC 1), 4=125(LC 19), 5=380(LC 19)

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

WEBS

2-5=-282/283

# 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 8-1-14 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=227.



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

May 18,2021

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Ansirtpi1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd. Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 145 PLL	
2802418	V08	Valley	2	1	12398730	18
					Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

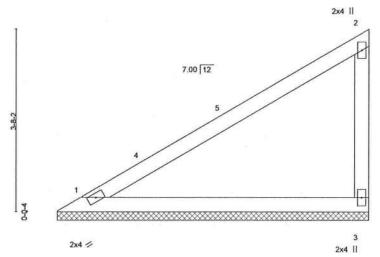
8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:56 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-CJIGfH3Y?eGBIWpFN?Gok\_Jz5fLdB1frlHX4q4zGK5j

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

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

except end verticals.

Scale = 1:22.3



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	0.55	Vert(LL)	n/a	11.0	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	n/a		n/a	999	7	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-P	32000 <b>1</b>					Weight: 24 lb	FT = 20%

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) 1=6-3-3, 3=6-3-3

Max Horz 1=163(LC 12)

Max Uplift 1=-52(LC 12), 3=-147(LC 12)

Max Grav 1=208(LC 1), 3=230(LC 19)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 6-1-14 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 3=147.



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

May 18,2021

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 145 PLL	7000700
2802418	V09	Valley	2	1		T23987309
		1,			Job Reference (optional)	
Builders FirstSource	e (Jacksonville, FL), Ja	cksonville, FL - 32244,			or 20 2021 MiTek Industries, Inc. Sat May 15 0	
Juilders FirstSource	e (Jacksonville, FL), Ja	cksonville, FL - 32244,			r 20 2021 MiTek Industries, Inc. Sat May 15 0 zNgAycgdx-gVJetc4AmyO2NgORxio1HCrDk3l	

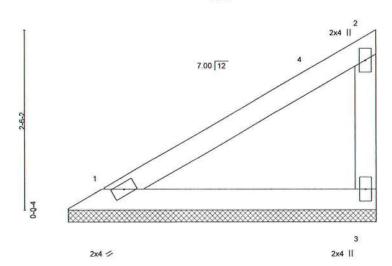
4-3-10

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

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

except end verticals.

Scale = 1:15.4



OADIN	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)	n/a	1070	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	n/a		n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-P						Weight: 16 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. (size) 1=4-3-3, 3=4-3-3

Max Horz 1=105(LC 12)

Max Uplift 1=-33(LC 12), 3=-95(LC 12) Max Grav 1=134(LC 1), 3=148(LC 19)

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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 4-1-14 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

May 18,2021

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ANS/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 145 PLL

 2802418
 V10
 Valley
 2
 1

 Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244.

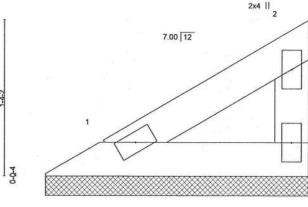
8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:59 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-cuRPll6QIZemc\_Yq37qVMdxcAsSAOOOHRFmkRPzGK5g 2-3-10

Structural wood sheathing directly applied or 2-3-10 oc purlins,

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

2-3-10

Scale = 1:9.5



2x4 /

2x4 ||

3

except end verticals.

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a		n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	ix-P	8: 350					Weight: 7 lb	FT = 20%

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) 1=2-3-3, 3=2-3-3

Max Horz 1=47(LC 12) Max Uplift 1=-15(LC 12), 3=-42(LC 12) Max Grav 1=60(LC 1), 3=66(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) 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

May 18,2021

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

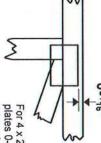


### Symbols

# PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 1/18" from outside edge of truss.

00

0

G

required direction of slots in connector plates This symbol indicates the

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

### PLATE SIZE

4 × 4

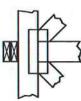
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## LATERAL BRACING LOCATION



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

### BEARING



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

### Industry Standards:

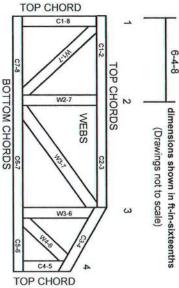
ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction

BCSI **DSB-89** 

Design Standard for Bracing.

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

# Numbering System



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

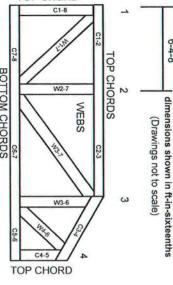
ICC-ES Reports:

established by others. section 6.3 These truss designs rely on lumber values

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



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

### PRODUCT CODE APPROVALS

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

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

Lumber design values are in accordance with ANSI/TPI 1



# General Safety Notes

### Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses
- Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, property owner and
- Cut members to bear tightly against each other
- 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
- 3 Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing. or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or after truss member or plate without prior approval of an engineer.
- 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.

Job Truss Truss Type Qty Ply SIMQUE - LOT 145 PLL T23987276 2802418 **CJ01** Jack-Open 1 Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:16 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, Sa Zibyo,

AQUIN VEZ

CENS

No 681

STA ID:RGwSt4cPREnm5p9yfgzNgAycgdx-NcK8GbaSQMEsyNlZ1bYQ7YfC6XnepxlyY3ryROzGK6L -1-6-0 1-6-0 Scale = 1:9.4 7.00 12 Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 3x4 = 6904 Parke East Blvd. Tampa FL 33610 Date: 1-0-0 1-0-0 Plate Offsets (X,Y)-[2:Edge,0-1-4] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d PLATES in TCLL 20.0 Plate Grip DOL 1.25 TC 0.23 Vert(LL) 0.00 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.06 Vert(CT) 0.00 >999 180 0.0 \* BCLL Rep Stress Incr YES WB 0.00 Horz(CT) 0.00

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

BCDL

TOP CHORD 2x4 SP No.2

10.0

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

Code FBC2020/TPI2014

(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-

- 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) 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.

Matrix-MP

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 3, 108 lb uplift at joint 2 and 25 lb uplift at joint 4.

May 18,2021



n/a

n/a

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

Structural wood sheathing directly applied or 1-0-0 oc purlins.

Weight: 6 lb

FT = 20%

SIMQUE - LOT 145 PLL Job Truss Truss Type Qty T23987277 2802418 **CJ03** Jack-Open Job Reference (optional) Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:17 2021 Page 1 Builders FirstSource (Jacksonville, FL), ID:RGwSt4cPREnm5p9yfgzNgAycgdx-rouWTxb4BgMjaXKlbI4ffmBNGx5eYO?6njbWzrzGK6K Scale = 1:15.3 SOAQUIN VE A THUMAN 7.00 12 68182 0-5-4 9 Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Plate Offsets (X,Y)- [2:Edge,0-1-4] **PLATES** GRIP SPACING-DEFL. 2-0-0 CSI I/defl Ld LOADING (psf) (loc) 244/190 Vert(LL) 0.01 >999 240 MT20 Plate Grip DOL 4-7 TCLL 20.0 1.25 TC 0.21 180 -0.01 >999 1.25 BC 0.14 Vert(CT) TCDL 7.0 Lumber DOL 0.0 WB 0.00 Horz(CT) -0.00 n/a Rep Stress Incr n/a BCLL YES Code FBC2020/TPI2014 Weight: 12 lb FT = 20% Matrix-MP BCDL 10.0 LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins. TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. BOT CHORD REACTIONS. (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.

- 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
- 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 63 lb uplift at joint 3, 92 lb uplift at joint 2 and 27 lb uplift at joint 4.

May 18,2021



Qty SIMQUE - LOT 145 PLL Truss Type Ply Job Truss T23987278 2802418 CJ05 Jack-Open Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville FL - 32244 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:17 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-rouWTxb4BgMjaXKlbI4ffmBKtx0bYO?6njbWzrzGK6K 1-6-0 Scale = 1:21.0 7.00 12 0-5-4 11 Plate Offsets (X,Y)- [2:Edge,0-1-4] LOADING (psf) SPACING-2-0-0 CSI. DEFL I/defl L/d PLATES (loc) TCLL 20.0 Plate Grip DOL 1.25 TC 0.42 Vert(LL) 0.11 4-7 >564 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.46 Vert(CT) 0.09 >631 180 WB 0.00 0.0 Rep Stress Incr -0.01 BCLL YES Horz(CT) n/a n/a

LUMBER-

BCDL

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

10.0

BRACING-

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

Weight: 19 lb

FT = 20%

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

REACTIONS.

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

Code FBC2020/TPI2014

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

Matrix-MP

- 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 116 lb uplift at joint 3, 103 lb uplift at joint 2 and 48 lb uplift at joint 4.



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

May 18,2021



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SIMQUE - LOT 145 PLL Job Truss Truss Type Qty Ply T23987279 2802418 EJ01 Jack-Partial 10 Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:18 2021 Page 1 Builders FirstSource (Jacksonville, FL) Jacksonville FL - 32244 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-J?SvhHciyzUaBgvx90buCzkO0LO2HrFF0NK3VHzGK6J Scale = 1:26.8 7.00 12 4-1-5 D-5-4 12 3x4 / Plate Offsets (X,Y)-- [2:0-0-15,0-1-8] LOADING (psf) SPACING-2-0-0 CSI DEFL (loc) I/defl L/d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.85 Vert(LL) 0.32 4-7 >263 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.38 Vert(CT) 0.28 >298 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.023 n/a n/a

LUMBER-

BCDL

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

10.0

BRACING-

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

REACTIONS.

(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

 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

- 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 147 lb uplift at joint 3, 123 lb uplift at joint 2 and 72 lb uplift at joint 4.



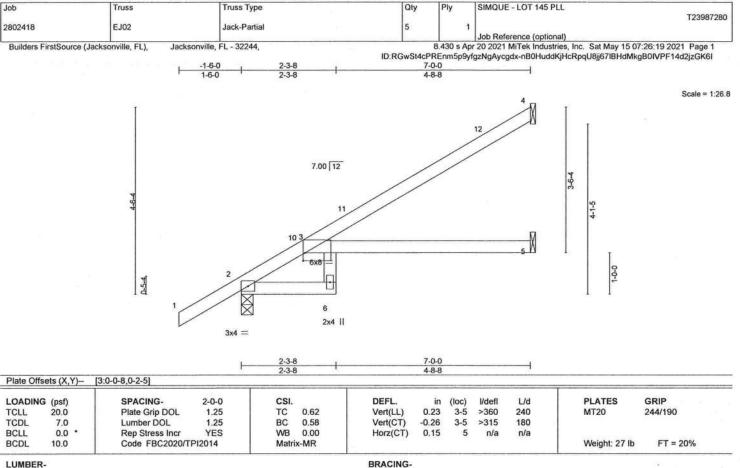
Weight: 25 lb

FT = 20%

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

May 18,2021





TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

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

3-6: 2x4 SP No.3

(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.

- 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; 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 130 lb uplift at joint 4, 121 lb uplift at joint 2 and 29 lb uplift at joint 5.



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

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

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



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SIMQUE - LOT 145 PLL Truss Type Qtv Ply Job Truss T23987281 2802418 HJ10 Diagonal Hip Girder lob Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:20 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville FL - 32244 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-FNaf6zdzUbkIR\_3KGRdMHOpoX8?6lfhYThpAaAzGK6H 9-10-1 Scale = 1:26.3 4.95 12 3x4 = 0-5-4 15 6 14 7 3x4 = 52x4 || 3x4 = 9-10-1 4-6-0 4-6-0 GRIP SPACING-CSI. DEFL I/defl L/d PLATES LOADING (psf) 2-0-0 244/190 Plate Grip DOL TC 0.59 Vert(LL) 0.11 6-7 >999 240 MT20 TCLL 20.0 1.25 1.25 BC 0.60 Vert(CT) -0.126-7 >999 180 TCDL 7.0 Lumber DOL BCLL 0.0 Rep Stress Incr NO WB 0.39 Horz(CT) -0.01 5 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 44 lb FT = 20%LUMBER-BRACING-Structural wood sheathing directly applied or 6-0-0 oc purlins. TOP CHORD 2x4 SP No.2 TOP CHORD **BOT CHORD** Rigid ceiling directly applied or 6-10-12 oc bracing.

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

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.

TOP CHORD

2-3=-735/546

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

WEBS

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

### 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; 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.
- 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.
- Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 4, 422 lb uplift at joint 2 and 287 lb uplift at joint 5.

- 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)



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May 18,2021

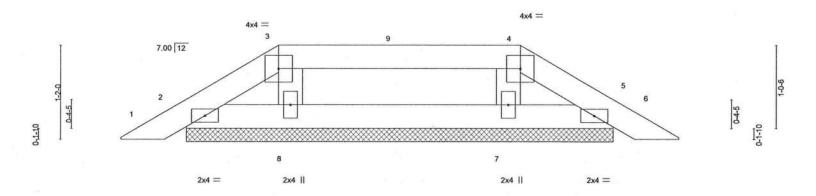
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTek® connectors. This design is based only upon parameters only. Additional building component, not a truss system. Before use, the building 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



SIMQUE - LOT 145 PLL Job Truss Truss Type Qty T23987282 2802418 PB01 Piggyback Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:21 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-ka81JJebFus928eWq88bqcM4OYU2UCZiiLZj6czGK6G

Scale = 1:13.8



	J-					7-0-0 7-0-0						Η	
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			
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a			
BCLL	10.0	Code FBC2020/T	PI2014	Matri	x-P	- Commonwealth of the Common C					Weight: 20 lb	FT = 20%	

LUMBER-

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

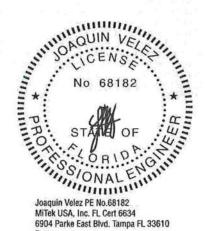
Max Horz 2=32(LC 11) (lb) -

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 designer.



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 properly 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



Job Truss Truss Type Qty Ply SIMQUE - LOT 145 PLL T23987283 2802418 **PB02 PIGGYBACK** 14 Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:22 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGwSt4cPREnm5p9yfgzNgAycgdx-CmhPXffD0C\_0gIDjOsfqMpvFwyppDfirx\_IHe2zGK6F 7-0-0 Scale = 1:14.3 4x4 = 3 7.00 12 0-4-5 0-1-10 0-1-10 0-1-10 6 2x4 || 2x4 = 2x4 = 7-0-0 7-0-0 DEFL I/defl 1./d PLATES GRIP LOADING (psf) SPACING-2-0-0 CSI in (loc) 244/190 0.15 0.00 120 MT20 TCLL 20.0 Plate Grip DOL 1.25 TC Vert(LL) 5 n/r TCDL 7.0 Lumber DOL 1.25 BC 0.07 Vert(CT) 0.00 5 n/r 120 WB BCLL 0.0 Rep Stress Incr YES 0.03 Horz(CT) 0.00 4 n/a n/a Code FBC2020/TPI2014 Weight: 22 lb FT = 20% BCDL 10.0 Matrix-P BRACING-LUMBER-TOP CHORD 2x4 SP No 2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. BOT CHORD 2x4 SP No.3 OTHERS

REACTIONS.

(size) 2=5-3-11, 4=5-3-11, 6=5-3-11

Max Horz 2=-59(LC 10)

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.

- 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) 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.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 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.



6904 Parke East Blvd. Tampa FL 33610 Date:

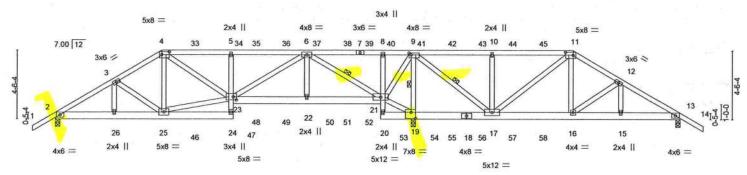
May 18,2021

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 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 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 \*\*
\*\*INSTEPT 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	ss Type	- 5			Qty	Ply	SIMQUE - LOT 145 PL	L,		
2802418		T01			HIP	GIRDER				1	1				T23987284
												Job Reference (optional	1)		
Builders First	Source (Jack	sonville, f	L).	Jacksonville	, FL -	32244,					8.430 s Ap	r 20 2021 MiTek Industrie	s, Inc. Sat May	y 15 07:26:25	5 2021 Page 1
									ID:RGv	St4cPF	REnm5p9yf	gzNgAycgdx-cLNY9gh5J7	MbXlxI3_DX_8	SXcE9liQolH	dyXxFNzGK6C
-1-6-0	3-10-4	7-0-	) .	11-8-0	110	16-6-4	, 2	1-4-8	23-6-4	1	28-8-4	34-0-0	37-1-12	41-0-0	42-6-0,
1-6-0	3-10-4	3-1-1	2	4-8-0	1	4-10-4	4	-10-4	2-1-12	1	5-2-0	5-3-12	3-1-12	3-10-4	1-6-0

Scale = 1:72.8



SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

	3-10-4	7-0-0	11-8-0	1 16-6-4	21-4-8	23-6-4	28-8-4		34-0-0	37-1-12	41-0-0
	3-10-4	3-1-12	4-8-0	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], [9:0-1-12,0-1-8	], [11:0-6-0,0-2-4], [19	0:0-3-8,0-4-12], [2	23:0-2-8,0-2-8]					
LOADING	(psf)	SPAC	CING- 2-	0-0 CSI.		DEFL.	in (loc)	l/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
TCDL	7.0	Lumb	er DOL 1	.25 BC	0.51	Vert(CT)	-0.20 22-23	>999	180	110000000	
BCLL	0.0 *	Rep S	Stress Incr	NO WB	0.91	Horz(CT)	0.06 19	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI20	4 Matri	x-MS	A STATE OF THE STA				Weight: 276	3 lb FT = 20%

BRACING-

WEBS

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

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

Max Horz 2=-159(LC 25)

Max Uplift 2=-933(LC 8), 19=-3206(LC 5), 13=-603(LC 9) Max Grav 2=1356(LC 19), 19=4316(LC 1), 13=773(LC 20)

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

TOP CHORD 2-3=-2194/1560, 3-4=-2041/1559, 4-5=-2314/1724, 5-6=-2331/1731, 6-8=-924/1259,

8-9=-958/1307, 9-10=0/320, 10-11=0/320, 11-12=-900/924, 12-13=-1085/971

**BOT CHORD** 2-26=-1344/1855, 25-26=-1344/1855, 5-23=-523/452, 22-23=-766/1299, 21-22=-766/1299,

8-21=-384/326, 17-19=-1976/1453, 16-17=-709/767, 15-16=-777/898, 13-15=-777/898

3-25=-308/231, 4-25=-243/390, 23-25=-1124/1552, 4-23=-457/742, 6-23=-1048/1290,

6-22=-68/471, 6-21=-2932/2017, 19-21=-2054/1538, 9-21=-800/1257, 9-19=-2937/2202,

9-17=-1920/2394, 10-17=-618/545, 11-17=-1082/798, 11-16=-526/678, 12-16=-254/217

### 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; 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=933, 19=3206, 13=603.



Structural wood sheathing directly applied or 3-4-7 oc purlins.

6-21, 9-19, 9-17

Rigid ceiling directly applied or 4-11-6 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Compo Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 145 PLL	220072014
2802418	T01	HIP GIRDER	1	1	12	23987284
100000000000000000000000000000000000000	1000	With a Company of the	N		Job Reference (optional)	

Builders FirstSource (Jacksonville, FL).

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:25 2021 Page 2 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-cLNY9gh5J7MbXlxl3\_DX\_SXcE9liQolHdyXxFNzGK6C

### 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 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 130 lb up at 15-0-12, 158 lb down and 130 lb up at 19-0-12, 158 lb down and 130 lb up at 19-0-12, 158 lb down and 147 lb up at 25-11-4, 150 lb down and 147 lb up at 25-11-4, 150 lb down and 147 lb up at 25-11-4, 150 lb down and 147 lb up at 25-11-4, and 256 lb down and 294 lb up at 34-0-0 on top chord, and 338 lb down and 49 lb up at 17-0-0, 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 92 lb up at 15-0-14, 91 lb down and 92 lb up at 25-11-4, 91 lb down and 92 lb up at 27-11-4, 91 lb down and 92 lb up at 27-11-4, 91 lb down and 92 lb up at 27-11-4, 91 lb down and 92 lb up at 31-11-4, and 338 lb down and 49 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

 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

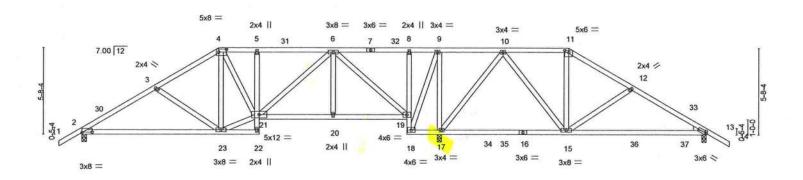
Concentrated Loads (lb)

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



Job		Truss	P	Truss Type		C	Qty Ply	SIMQUE - LO	T 145 PLL		
2802418		T02		HIP		1		1			T2398728
								Job Reference	(optional)		
Builders FirstS	ource (Jacks	onville, FL),	Jacksonville	, FL - 32244,			8.430	s Apr 20 2021 MiTek	Industries, Inc. Sa	t May 15 07:26:2	7 2021 Page 1
						ID:RGwSt4	4cPREnm5p9	yfgzNgAycgdx-YkVla	aMjMqkcJm35gBPF	?3tc2UzN7ujea4	G02KGzGK6A
1-1-6-0,	4-11-4	, 9-0	-0 , 11-8-0	16-6-4	21-4-8	, 23-6-4	27-8-4	32-0-0	36-0-12	41-0-0	42-6-0,
1-6-0	4-11-4	4-0-	12 2-8-0	4-10-4	4-10-4	2-1-12	4-2-0	4-3-12	4-0-12	4-11-4	1-6-0

Scale = 1:72.8



1	1	9-0-0	11-8-0	16-6-4	21-4-8	23-6-4	32	-0-0	1	41-0-0	A Comment	
		9-0-0	2-8-0	4-10-4	4-10-4	2-1-12	8-5	5-12		9-0-0		
Plate Offse	ets (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.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	en pr
TCLL	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	Walling Service		
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	x-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

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



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

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

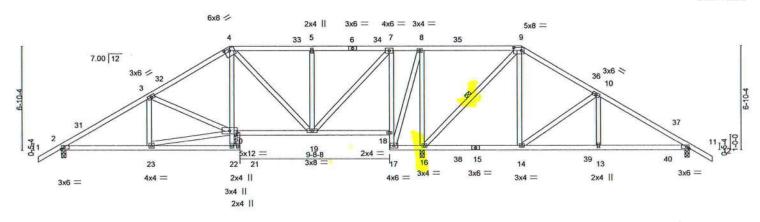
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

May 18,2021



Job	Truss	Tn	uss Type			0	Qty	Ply	SIMQUE - LOT 145 PLL		T23987286
2802418	T03	HI	P			1	1	1	120000000000000000000000000000000000000		
100000000000000000000000000000000000000									Job Reference (optional)		
Builders FirstSource (Jacks	onville, FL), J	acksonville, FL	- 32244,				8	430 s Apr	20 2021 MiTek Industries, Inc. S	at May 15 07:26:	28 2021 Page 1
- 5	5. 180					ID:RGw	St4cPRE	nm5p9yfc	zNgAycgdx-0w3hnik_b2kAODgsl	6mEc49B6Nn6d	9cjJwlbsizGK69
<sub>1</sub> -1-6-0 <sub>1</sub> 5-8-8	, 11-	0-0 11,3-8	16-4-0	-00	21-4-8	23-6-4		30-0-0	35-0-9	41-0-0	42-6-0 <sub>1</sub>
1-6-0 5-8-8	5-3	3-8 0-3-8	5-0-8		5-0-8	2-1-12		6-5-12	5-0-9	5-11-7	1-6-0

Scale = 1:72.8



Î.		-8-8 11-3		16-4-0	21-4-8	23-6-4	30-0-0		35-0-9	41-0-0	
Plate Offse		-8-8 5-7 [4:0-4-0,0-1-11], [9:0-6	AND REAL PROPERTY AND ADDRESS OF THE PARTY AND	4-8-0 -2-0,0-1-8]	5-0-8	2-1-12	6-5-12	- W-W-	5-0-9	5-11-7	
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	0.49	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 Inci	YES	WB	0.90	Horz(CT)	0.02 11	n/a	n/a		
BCDL	10.0	Code FBC2020	D/TPI2014	Matri	x-MS					Weight: 258 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

WEBS

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

(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

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

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, WEBS

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-

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.

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, 16=814, 11=386.



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

9-16

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

10-0-0 oc bracing: 20-22

1 Row at midpt

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

May 18,2021

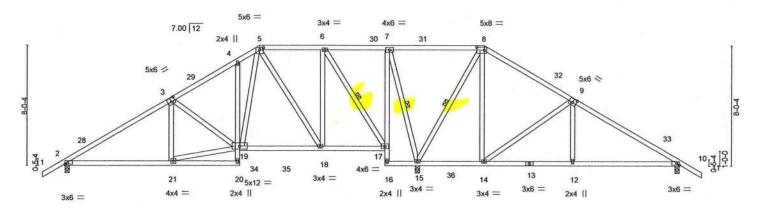
MARNING - Verity design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. 



6904 Parke East Blvd Tampa, FL 36610

Job	Truss		Truss Type			Qty	Ply	SIMQUE - LOT 145 PLL		
2802418	T04		HIP			1		1		T23987287
				25		(44		Job Reference (optional)		
Builders FirstSource	e (Jacksonville, FL),	Jacksonville,	FL - 32244,			7/2-111	8.430 s	Apr 20 2021 MiTek Industries, In	nc. Sat May 15 07:26	6:29 2021 Page 1
						ID:RGwSt4cPR	Enm5p9yfg	zNgAycgdx-V6d3?2kcMMs00N	F3lqHT8lhMtm5PMe	htYaV808zGK68
1-1-6-0	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 <sub>i</sub>
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



	1	7-1-0	11-8-0	17-2-4	21-4-8	23-6-4	28-0-0	4	33-11-0	41-0-0	3	
		7-1-0	4-7-0	5-6-4	4-2-4	2-1-12	4-5-12	,	5-11-0	7-1-0		
Plate Offse	ets (X,Y)-	[3:0-3-0,0-3-0], [5:0-3-0,0	0-1-12], [8:0-6	-0,0-2-4], [9:0-	3-0,0-3-0]							
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	0.49	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	100000000000000000000000000000000000000		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.02 15	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matrix	x-MS					Weight: 268 lb	FT = 20%	

BRACING-

TOP CHORD

**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 10)

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

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 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.
- 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.

1 Row at midpt

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 properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Componer Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Truss Type Qty SIMOUE - LOT 145 PLL Job T23987288 T05 Hip 2802418 Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:31 2021 Page 1 Jacksonville, FL - 32244, Builders FirstSource (Jacksonville, FL). ID:RGwSt4cPREnm5p9yfgzNgAycgdx-RVkpPjmsuz7kFgPRQFKxEjniVanVqYEA?u\_FT1zGK66 23-8-0 | 26-0-0 | 29-0-0 3-0-0 32-2-4 4-0-12

Scale = 1:74.1

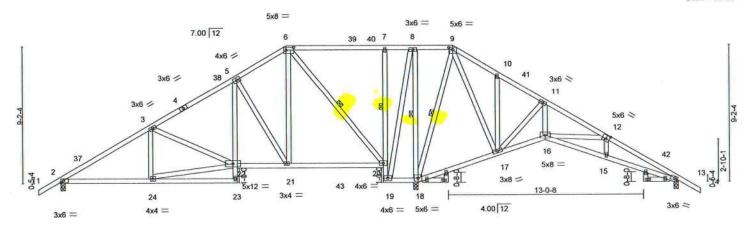


Plate Offs	ets (X,Y)	6:0-6-0,0-2-4], [9:0-3-0,0	-1-12], [12:0-3-	0,0-3-0], [13	0-2-5,0-1-8]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL.	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.09	20-21	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.14	20-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	-0.05	18	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix	x-MS						Weight: 297 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

**BOT CHORD** 

23-8-0 23-6-4 | 25-8-0 |

29-0-0 32-2-4

1 Row at midpt

1 Row at midpl

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:

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

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

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

2x4 SP No.3 WEBS

(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

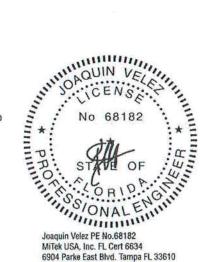
22-24=-512/1012, 3-22=-443/240, 5-21=-662/376, 6-21=-281/821, 6-20=-1073/362, WEBS

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-

- 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.
- 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, 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.

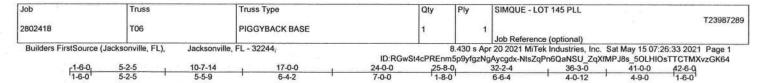


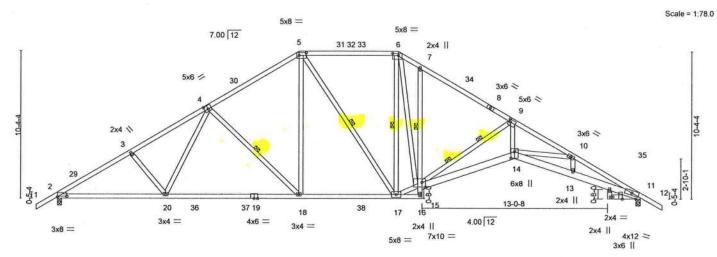
MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

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







		7-7-4	17-	0-0	1	24-0-0	25-8-0,		32-2-4	, 3	6-3-0 , 38-8-8 , 41-0	0-0
		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	0.73	Vert(LL)	-0.47	14-15	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.81	14-15	>609	180	288000 08000	
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	c-MS	0-20-5-WA-#60169F0A					Weight: 281 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

**BOT CHORD** 

1 Row at midpt

1 Row at midpt

2 Rows at 1/3 pts

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

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

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

(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.

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.

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 6818

STATE O

ORIO

Joaquin Velez PE No.68182 68182

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:

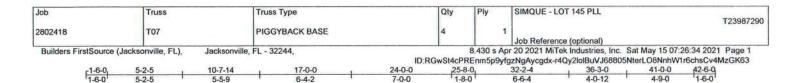
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

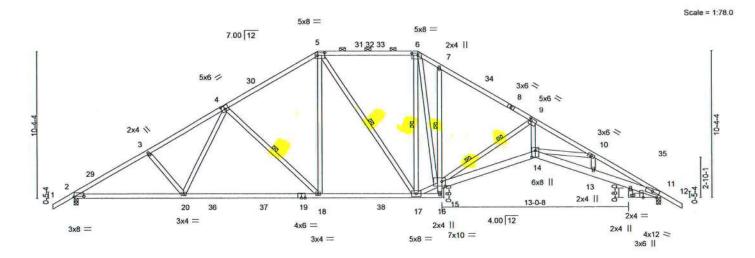
May 18,2021

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

\*\*ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20501







	1	7-7-4	17-0	0-0		24-0-0	25-8-0		32-2-4		36-3-0   38-8-8   41-0	
		7-7-4	9-4-	12	1	7-0-0	1-8-0		6-6-4	' '	4-0-12 2-5-8 2-3-	8 1
Plate Offs	sets (X,Y)	[2:0-8-0,0-0-6], [4:0-3-0,0	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	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	0.82	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		
BCLL	0.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.45	26	n/a	n/a	2000 Commonweapon and	
BCDL	10.0	Code FBC2020/T	PI2014	Matrix	K-MS	11111 (22.15) 28					Weight: 281 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

REACTIONS.

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

**BOT CHORD** 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-

- 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) 2=640, 11=640, 11=640.
- 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

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. 



6904 Parke East Blvd

SIMQUE - LOT 145 PLL Job Truss Truss Type Qty Ply T23987291 PIGGYBACK BASE 2802418 T08 11 1 Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:36 2021 Page 1 Jacksonville, FL - 32244. Builders FirstSource (Jacksonville, FL), ID:RGwSt4cPREnm5p9yfgzNgAycgdx-nSYiTRq?jVl1MRHPCov6xmUUsbNwVl4v9Ah08EzGK61 41-0-0 32-2-4 36-3-0 25-8-0 1-8-0 7-0-0 Scale = 1:75.6 5x8 = 5x8 = 7.00 12 29 30 31 2x4 || 5x6 / 3x6 > 5x6 < 2x4 \\ 3x6 < 6x8 II 11 A. 2x4 || 13-0-8 34 35 17 36 18 14 16 15 3x4 = 4x6 = 4.00 12 5x8 = 2x4 | 13x8 = 2x4 3x4 = 7x10 =4x12 > 2x4 = 25-8-0 1-8-0 32-2-4 41-0-0 17-0-0 24-0-0 36-3-0 Plate Offsets (X,Y)-[1:0-8-0,0-0-2], [3:0-3-0,0-3-0], [4:0-6-0,0-2-4], [5:0-5-0,0-1-12], [8:0-1-8,0-2-4], [12:0-5-8,0-3-0], [13:0-3-0,0-4-LOADING (psf) SPACING. CSL 2-0-0 DEFI I/defl 1 /d PLATES GRIP 244/190 Plate Grip DOL TCLL 20.0 1.25 TC 0.82 Vert(LL) -0.47 12-13 >999 240 **MT20** TCDL 7.0 Lumber DOL 1.25 BC 0.98 Vert(CT) -0.81 12-13 >606 180 BCLL 0.0 WB 1.00 Rep Stress Incr YES Horz(CT) 0.46 24 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-MS Weight: 276 lb FT = 20%LUMBER-BRACING-Structural wood sheathing directly applied or 2-1-6 oc purlins, except TOP CHORD 2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP M 31 \*Except\* 2-0-0 oc purlins (3-0-7 max.): 4-5 **BOT CHORD** 6-14,10-19: 2x4 SP No.3, 12-13: 2x6 SP No.2, 10-12: 2x6 SP M 26 Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 2x4 SP No.3 \*Except\* WEBS 1 Row at midpt 6-13 8-12: 2x4 SP No.2 WEBS 1 Row at midpt 3-16, 4-15, 5-15 2 Rows at 1/3 pts 8-13 REACTIONS.

(size) 1=0-3-8, 10=0-3-8, 10=0-3-8

Max Horz 1=-316(LC 8)

Max Uplift 1=-588(LC 12), 10=-588(LC 13)

Max Grav 1=1713(LC 19), 10=1685(LC 20), 10=1517(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-2915/1004, 2-3=-2783/989, 3-4=-2072/768, 4-5=-1700/741, 5-6=-2274/976,

TOP CHORD 6-8=-2338/836, 8-9=-5777/1829, 9-10=-5788/1941

**BOT CHORD** 1-18=-994/2674, 16-18=-775/2267, 15-16=-461/1746, 6-13=-327/281, 12-13=-1403/5031,

11-12=-1678/5267, 10-11=-1660/5188

3-18=-153/595, 3-16=-734/437, 4-16=-245/878, 5-15=-580/225, 13-15=-353/1808,

5-13=-601/1583, 8-13=-3446/1189, 8-12=-946/3473

### 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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 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 41-0-0 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.

- \* 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) 10, 10 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)
- 1=588, 10=588, 10=588, 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

No 6818

No 6818

No 6818

No 6818

No 6818

No 68182 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 MTER® 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



SIMQUE - LOT 145 PLL Job Truss Truss Type Qty Ply T23987292 T09 Flat Girder 2802418 2 Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:40 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGwSt4cPREnm5p9yfgzNgAycgdx-gEnDlotVnkFTq3bARe\_25ceJGCvbRZhU4ofEG?zGK5z 20-6-0 25-6-10 30-7-0 35-7-6 5-0-6 5-0-6 5-0-10 5-0-10 5-0-6 Scale = 1:69.5 4x4 = 6x8 = 6x8 = 4x4 = 4x4 = 7x8 =7x8 =4x4 = 5x6 = 5 7 10 11 12 3 4 8 9 4 34 23 35 41 42 1643 25 32 21 39 140 47 14 29 30 31 33 36 22 37 38 44 45 46 48 49 50 12 26 24 2019 17 15 27 6x8 = 6x8 = 3x8 || 8x10 = 8x10 = 3x8 || 1 21-10-4 1 5-4-10 5-0-6 5-0-6 3-8-6 3-8-6 5-0-6 5-0-6 5-4-10 [5:0-4-0,0-4-8], [7:0-4-0,0-4-8], [13:0-5-4,0-1-8], [14:0-3-8,0-4-4], [15:0-3-8,0-5-8], [17:0-3-8,0-5-8], [19:0-4-0,0-4-12], [21:0-4-0,0-4-12], [22:0-3-8,0-5-8], [17:0-3-8,0-5-8], [19:0-4-0,0-4-12], [21:0-4-0,0-4-12], [21:0-4-0,0-4-12], [21:0-3-8,0-5-8], [19:0-4-0,0-4-12], [21:0-4-0,0-4-12], [21:0-3-8,0-5-8], [19:0-4-0,0-4-12], [21:0-4-0,0-4-12], [21:0-3-8,0-5-8], [19:0-3-8,0-5-8], [19:0-4-0,0-4-12], [21:0-4-0,0-4-12], [21:0-3-8,0-5-8], [19:0-3-8,0-5-8],Plate Offsets (X,Y)-[24:0-3-8,0-5-8], [25:0-3-8,0-4-4], [26:0-5-4,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) l/defl ∐d **PLATES** Plate Grip DOL 20.0 1.25 TC 0.22 Vert(LL) 0.10 22-24 >999 240 MT20 244/190 TCLL 1.25 180 7.0 Lumber DOL BC 0.29 Vert(CT) -0.15 22-24 >999 TCDL 0.0 Rep Stress Incr NO WB 0.96 Horz(CT) 0.02 n/a BCLL Code FBC2020/TPI2014 Weight: 990 lb FT = 20% BCDL Matrix-MS BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

**BOT CHORD** 

WEBS

except end verticals.

1 Row at midpt

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

2-26, 10-13, 5-21, 6-19

TOP CHORD 2x6 SP No.2 **BOT CHORD** 2x8 SP 2400F 2.0E

REACTIONS.

2x4 SP No.3 \*Except\* WEBS

2-26,10-13: 2x6 SP No.2

(size) 26=0-3-8, 13=0-3-8, 19=(0-3-8 + bearing block) (req. 0-5-5)

Max Uplift 26=-2213(LC 4), 13=-1474(LC 5), 19=-4354(LC 5)

Max Grav 26=4891(LC 30), 13=3297(LC 2), 19=8954(LC 29)

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

2-26=-4257/2001, 2-3=-2307/1041, 3-4=-3187/1429, 4-5=-2541/1109, 5-6=-1145/437, 7-8=-788/409, 8-9=-1662/734, 9-10=-1431/637, 10-13=-2708/1267 TOP CHORD

24-25=-1041/2307, 22-24=-1429/3187, 21-22=-1107/2538, 19-21=-194/570, **BOT CHORD** 

17-19=-408/786, 15-17=-734/1662, 14-15=-637/1431

2-25=-2156/4784, 3-25=-2135/1106, 3-24=-825/1872, 4-24=-564/778, 4-22=-1378/682, WEBS 5-22=-1300/3075, 5-21=-3869/1863, 6-21=-1741/3938, 6-19=-4091/1958,

7-19=-2254/1189, 7-17=-885/1970, 8-17=-1907/870, 8-15=-577/1579, 9-15=-266/490,

9-14=-597/397, 10-14=-1313/2958

### NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.

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

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

3) 2x8 SP 2400F 2.0E bearing block 12" long at jt. 19 attached to each face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners per block. Bearing is assumed to be SP No.2.

- 4) 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
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are 7x8 MT20 unless otherwise indicated.

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

- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 26=2213, 13=1474, 19=4354,



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

May 18,2021

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



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 145 PLL	
2802418	T09	Flat Girder	1	_	r r	T23987292
	1000000		150	2	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:40 2021 Page 2 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-gEnDlotVnkFTq3bARe\_25ceJGCvbRZhU4ofEG?zGK5z

### NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 698 lb down and 315 lb up at 2-0-12, 712 lb down and 315 lb up at 4-0-12, 702 lb down and 315 lb up at 6-0-12, 704 lb down and 315 lb up at 8-0-12, 709 lb down and 315 lb up at 10-0-12, 698 lb down and 315 lb up at 12-0-12, 711 lb down and 315 lb up at 14-0-12, 713 lb down and 315 lb up at 18-0-12, 713 lb down and 315 lb up at 20-0-12, 713 lb down and 315 lb up at 20-0-12, 713 lb down and 315 lb up at 20-0-12, 713 lb down and 315 lb up at 20-0-12, 713 lb down and 309 lb up at 20-0-12, 713 lb down and 309 lb up at 30-0-12, 713 lb

### LOAD CASE(S) Standard

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

Vert: 1-2=-14, 2-3=-54, 3-28=-204(F=-150), 10-28=-54, 10-11=-14, 12-27=-20

Concentrated Loads (lb)

Vert: 29=-600(B) 31=-600(B) 32=-600(B) 33=-600(B) 34=-600(B) 35=-600(B) 35=-600(B) 37=-600(B) 37=-600(B) 39=-600(B) 40=-600(B) 41=-302(B) 42=-302(B) 43=-302(B) 44=-585(B) 45=-585(B) 46=-585(B) 47=-585(B) 48=-585(B) 50=-585(B)



SIMOUE - LOT 145 PLL Job Truss Truss Type Qty Ply T23987293 T10 2802418 Roof Special Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:41 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-8QLbW8u8X2NJSDAM?LVHeqBQac98A0meISPnoSzGK5y Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 21-10-4 7-2-0 25-8-0 36-5-6 32-2-4 7-2-0 3-9-12 4-6-10 Scale = 1:79.3 4x4 11 2x4 || 5x8 = 3x4 = 4x6 = 3x6 =2x4 11 5x8 = 3x4 = 10 11 3 6 1 2 9 2-10-1 2-10-1 x8 = 15 18 25 26 24 2x4 || 19 17 16 12 20 21 4.00 12 3x6 = 2x4 || 2x4 || 6x8 = 2x4 || 3x8 = 2x4 || 3x6 || 5x12 = 21-10-4 7-6-4 7-2-0 3-9-12 [4:0-4-0,0-3-0], [12:0-0-0,0-6-6], [22:0-2-1,0-1-0] Plate Offsets (X,Y)-SPACING-DEFL. in (loc) l/defl PLATES GRIP LOADING (psf) 2-0-0 CSI. -0.19 12-13 244/190 20.0 Plate Grip DOL 1.25 TC 0.50 Vert(LL) >999 240 MT20 TCLL -0.39 12-13 180 1.25 BC 0.65 Vert(CT) >591 Lumber DOL 7.0 TCDL -0.04 Rep Stress Incr YES WB 0.97 Horz(CT) 12 n/a n/a 0.0 BCLL Code FBC2020/TPI2014 Matrix-MS Weight: 374 lb FT = 20%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** 2x4 SP No.2 \*Except\* except end verticals 6-15,12-22: 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 2x4 SP No.3 \*Except\* 1 Row at midpt 6-14 WEBS 2-20,10-12: 2x6 SP No.2, 2-19,4-19,4-16: 2x4 SP No.2 WEBS 1 Row at midpt 2-20, 10-12, 2-19, 3-19, 4-19, 4-16, 5-16, 9-12

(size) 20=0-3-8, 12=0-3-8, 16=0-3-8

Max Horz 20=-509(LC 10)

Max Uplift 20=-462(LC 8), 12=-307(LC 9), 16=-915(LC 9) Max Grav 20=852(LC 2), 12=619(LC 2), 16=1950(LC 2)

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

TOP CHORD 2-20=-677/615, 2-3=-371/322, 3-4=-371/322, 6-8=-325/338, 8-9=-325/338

BOT CHORD 19-20=-504/526, 17-19=-408/423, 16-17=-408/423, 6-14=-577/495, 13-14=-255/237,

12-13=-302/328

WEBS 2-19=-536/627, 3-19=-403/423, 4-19=-257/268, 4-17=0/418, 4-16=-931/680,

5-16=-905/702, 14-16=-297/375, 5-14=-433/689, 6-13=-295/448, 8-13=-322/338,

9-13=-214/300, 9-12=-485/472

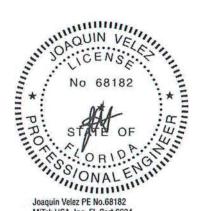
### NOTES-

REACTIONS.

- 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; MVFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-0-0, Exterior(2) 4-0-0 to 37-0-0, Corner(3) 37-0-0 to 41-0-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=462, 12=307, 16=915.



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

May 18,2021

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Job Truss Truss Type SIMQUE - LOT 145 PLL Qty Ply T23987294 T11 2802418 Jack-Closed 11 Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:42 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-ccvzjUumILVA4MIZZ20WA1kax0SRvfFnX68KLuzGK5x 6-3-4 4-9-2 2x4 || 5 6 7.00 12 16 5x6 / 15 9 17 18 7 8 5x8 = 3x6 = 3x6 = 7-10-14 7-10-14 8-5-9 Plate Offsets (X,Y)-[3:0-3-0,0-3-0], [9:0-4-0,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. PLATES GRIP in (loc) I/defl L/d TCLL 20.0 Plate Grip DOL 1.25 TC 0.53 Vert(LL) -0.22 8-9 >901 240 244/190 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.84 Vert(CT) -0.33 8-9 >591 180

Horz(CT)

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

0.01

n/a

except end verticals.

1 Row at midpt

n/a

Rigid ceiling directly applied or 8-7-12 oc bracing.

Structural wood sheathing directly applied or 4-10-4 oc purlins,

5-8, 4-8

LUMBER-

BCLL

BCDL

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

0.0

10.0

REACTIONS.

(size) 2=0-3-8, 8=Mechanical Max Horz 2=420(LC 12)

Max Uplift 2=-249(LC 12), 8=-295(LC 12) Max Grav 2=942(LC 19), 8=850(LC 19)

Rep Stress Incr

Code FBC2020/TPI2014

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

TOP CHORD

2-3=-1143/177, 3-4=-884/130 2-9=-444/1017, 8-9=-168/402

**BOT CHORD** WEBS

3-9=-396/287, 4-9=-199/758, 4-8=-708/304

### 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 16-4-6 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.

WB 0.25

Matrix-MS

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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) 2=249. 8=295.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 157 lb down and 72 lb up at 2-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

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

Vert: 1-5=-54, 5-6=-14, 7-10=-20

Concentrated Loads (lb)

Vert: 14=-150

NO 681

NO 681

NO 681

A

NO 681

Weight: 98 lb

FT = 20%

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\*\*ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Composition available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Tampa, FL 36610

SIMQUE - LOT 145 PLL Truss Type Qty Ply Truss Job T23987295 T11G GABLE 2802418 Job Reference (optional) Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:43 2021 Page 1 Builders FirstSource (Jacksonville, FL). ID:RGwSt4cPREnm5p9yfgzNgAycgdx-4pTLxqvO3fd1hWKl7mXljFGoJQ\_Ee7ixmmuutKzGK5w 16-4-6 7.00 12 Scale = 1:50.0 10 20 9 3x6 / 8 7 5 3x4 / 4x8 = 16 14 13 12 17 15 5x6 = 16-4-6 Plate Offsets (X,Y)-- [2:0-3-7,0-1-15], [16:0-3-0,0-3-0] **PLATES** GRIP DEFL L/d LOADING (psf) SPACING-2-0-0 CSI in I/defl 244/190 MT20 TCLL 20.0 Plate Grip DOL 1.25 TC 0.36 Vert(LL) 0.01 n/r 120 TCDL 7.0 Lumber DOL 1.25 BC 0.10 Vert(CT) 0.01 n/r 120 0.18 0.00 n/a BCLL 0.0 Rep Stress Incr YES WB Horz(CT) 16 n/a FT = 20% Code FBC2020/TPI2014 Weight: 116 lb Matrix-S BCDL 10.0 BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 2x4 SP No.2 TOP CHORD except end verticals. **BOT CHORD** 2x4 SP No.2 Rigid ceiling directly applied or 6-0-0 oc bracing **BOT CHORD** 2x4 SP No.3 WEBS

WEBS

1 Row at midpt

REACTIONS. All bearings 16-4-6.

(lb) - Max Horz 2=504(LC 12)

2x4 SP No.3

Max Uplift All uplift 100 lb or less at joint(s) 12 except 18=-116(LC 12), 17=-103(LC 12), 16=-106(LC 12), 15=-105(LC 12), 14=-101(LC 12), 13=-120(LC 12)

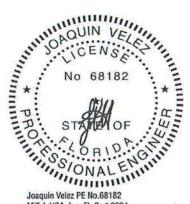
Max Grav All reactions 250 lb or less at joint(s) 12, 17, 16, 15, 14, 13 except 2=266(LC 1), 18=257(LC 19)

FORCES. (ib) - Max. Comp./Max. Ten. - All forces 250 (ib) or less except when shown. TOP CHORD 2-4=-559/285, 4-5=-461/215, 5-6=-387/184, 6-8=-306/142

### NOTES.

**OTHERS** 

- 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 Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 16-2-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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) All plates are 2x4 MT20 unless otherwise indicated.
- 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) 12 except (jt=lb) 18=116, 17=103, 16=106, 15=105, 14=101, 13=120.



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

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6904 Parke East Blvd Tampa, FL 36610

SIMOUE - LOT 145 PLL Job Truss Type Qty Truss Ply T23987296 2802418 T12 Jack-Closed Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:44 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-Y?1k8Aw0qyluJguxgT3\_FSpwupA4NZs4?QdRPnzGK5v 11-7-4 16-4-6 6-3-4 4-9-2 Scale = 1:55.9 2x4 || 4 5 7.00 12 3x4 / 3 5x6 / 13 8 15 16 6 5x8 = 3x6 = 3x6 7-10-14 7-10-14 8-5-8 Plate Offsets (X,Y)-- [2:0-3-0,0-3-0], [8:0-4-0,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL PLATES GRIP in (loc) l/defl 1 /d 20.0 Plate Grip DOL 0.50 -0.22 244/190 TCLL 1.25 TC Vert(LL) 7-8 >865 240 MT20 TCDL 1.25 BC -0.35 7.0 Lumber DOL 0.77 Vert(CT) 7-8 >557 180 BCLL 0.0 Rep Stress Incr WB 0.25 YES 0.01 Horz(CT) n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-MS FT = 20%Weight: 95 lb

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

REACTIONS.

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

1

(size) 1=0-3-8, 7=Mechanical

Max Horz 1=383(LC 12)

Max Uplift 1=-131(LC 12), 7=-289(LC 12) Max Grav 1=722(LC 19), 7=835(LC 19)

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

TOP CHORD

1-2=-1005/135, 2-3=-851/119 1-8=-420/955, 7-8=-164/392

BOT CHORD WEBS

2-8=-346/268, 3-8=-184/714, 3-7=-688/297

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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 16-4-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
  to the use of this truss component.
- 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, with BCDL = 10.0psf.
- 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) 1=131, 7=289.



Structural wood sheathing directly applied or 5-7-13 oc purlins,

4-7.3-7

Rigid ceiling directly applied or 8-11-3 oc bracing.

except end verticals.

1 Row at midpt

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 fall 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, a rection and bracing of trusses and truss systems, see 

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



Truss Type Qty SIMQUE - LOT 145 PLL Job Truss T23987297 GARLE 2802418 T12G Job Reference (optional) Jacksonville, FL - 32244, Builders FirstSource (Jacksonville, FL), 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:45 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-1Ba6LWxebGtlxqT8EBaDogMBiDge61CED3N?xDzGK5u 16-4-6 16-4-6 7.00 12 Scale = 1:49.5 9 19 8 3x6 / 7 6 4x8 / 17 16 15 14 13 12 11 5x6 = Plate Offsets (X,Y)-- [1:Edge,0-1-15], [15:0-3-0,0-3-0] **PLATES** GRIP LOADING (psf) SPACING-CSI. DEFL I/defl L/d 2-0-0 in (loc) Plate Grip DOL 244/190 0.11 Vert(LL) MT20 TCLL 20.0 1.25 TC n/a n/a 999 999 TCDL 7.0 Lumber DOL 1.25 BC 0.11 Vert(CT) n/a n/a 0.0 Rep Stress Incr YES WB 0.18 Horz(CT) 0.00 15 n/a BCLL n/a FT = 20% Code FBC2020/TPI2014 Matrix-S Weight: 114 lb BCDL 10.0 BRACING-LUMBER-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

**BOT CHORD** 

WEBS

except end verticals.

1 Row at midpt

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

OTHERS 2x4 SP No.3

REACTIONS. All bearings 16-4-6. (lb) - Max Horz 1=460(LC 12)

2x4 SP No.2

2x4 SP No.3

Max Uplift All uplift 100 lb or less at joint(s) 11, 16 except 17=-149(LC 12), 15=-108(LC 12), 14=-105(LC 12),

13=-102(LC 12), 12=-121(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 11, 1, 16, 15, 14, 13, 12 except 17=287(LC 19)

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

TOP CHORD 1-3=-567/2

1-3=-567/281, 3-4=-458/214, 4-5=-388/183, 5-7=-306/142

### NOTES

**BOT CHORD** 

WEBS

- Wind: ASCE 7-16; Vuit=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) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 16-2-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 16 except (it=lb) 17=149, 15=108, 14=105, 13=102, 12=121.



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 properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses systems, see 

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



6904 Parke East Blvd.

SIMOUE - LOT 145 PLL Job Truss Truss Type Qty Ply T23987298 Jack-Closed 2802418 T13 Job Reference (optional) Builders FirstSource (Jacksonville, FL), 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:46 2021 Page 1 Jacksonville FL - 32244 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-VN8UZsxGMa0cY\_2Kou5SLtuGKdrLrTnNSj6YUfzGK5t 6-5-0 4-9-2 Scale = 1:56.4 2x4 || 4 5 7.00 12 3x4 / 15 3 5x6 / 754 8 7 5x8 = 2x4 || 3x6 = 3x6 = 5-2-4 7-10-14 0-2-4 2-8-10 Plate Offsets (X,Y)-[2:0-3-0,0-3-0], [8:0-4-0,0-3-0] LOADING (psf) SPACING-CSI. DEFL in PLATES GRIP 2-0-0 (loc) **V**defI 1/d Plate Grip DOL 0.50 -0.21244/190 TCLL 20.0 1.25 TC Vert(LL) 7-8 >619 240 MT20 TCDL 1.25 BC -0.347.0 Lumber DOL 0.72 Vert(CT) 7-8 >382 180

-0.00

n/a

except end verticals.

1 Row at midpt

n/a

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

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

4-7, 3-7

Horz(CT)

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

REACTIONS.

BCLL

BCDL

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

0.0

10.0

(size) 9=0-3-8, 7=Mechanical

Max Horz 9=383(LC 12)

Max Uplift 9=-194(LC 12), 7=-236(LC 14) Max Grav 9=961(LC 2), 7=515(LC 19)

Rep Stress Incr

Code FBC2020/TPI2014

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

TOP CHORD 1-2=-372/383

**BOT CHORD** 1-9=-266/361, 8-9=-329/66

WEBS 2-9=-914/302, 2-8=-20/519, 3-7=-302/227

### 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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 16-4-6 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB 0.22

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

YES

- 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, with BCDL = 10.0psf.
- 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) 9=194, 7=236.



Weight: 100 lb

FT = 20%

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

May 18,2021

MARNING - 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 ANSITPH 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 145 PLL Truss Type Qty Truss Ply Job T23987299 T14 2802418 Common | Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:47 2021 Page 1 Jacksonville, FL - 32244, Builders FirstSource (Jacksonville, FL), ID:RGwSt4cPREnm5p9yfgzNgAycgdx-zaismCyv7t8TA8dWMccht5RSf1GCaq8WhNs505zGK5s 9-11-0 19-10-0 21-4-0 1-6-0 Scale = 1:40.0 4x6 || 7.00 12 2x4 \ 2x4 // 10 9 8 3x4 = 3x6 = 3x4 = 3x6 = 3x6 = 12-10-4 19-10-0 Plate Offsets (X,Y)-[2:0-6-0,0-0-2], [6:0-6-0,0-0-2] PLATES GRIP LOADING (psf) SPACING-2-0-0 CSI DEFL in (loc) 1/defl 1/1 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.40 Vert(LL) 0.12 10-13 >999 240 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.42 Vert(CT) -0.11 10-13 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.53 Horz(CT) 0.02 6 n/a n/a Weight: 98 lb FT = 20% Code FBC2020/TPI2014 Matrix-MS BCDL 10.0 BRACING-LUMBER-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-4-3 oc purlins. **BOT CHORD BOT CHORD** 2x4 SP No.2 Rigid ceiling directly applied or 5-3-12 oc bracing. 2x4 SP No.3 WEBS

VEBS 2X4 SP

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)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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

### NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp 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
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=331, 6=331.



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 SIMQUE - LOT 145 PLL Ply T23987300 GABLE 2802418 T14G 1 | Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:48 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGwSt4cPREnm5p9yfgzNgAycgdx-RmGE\_YzXuBGKoHCivJ7wQI\_a4RccJHagv1bfYYzGK5r 9-11-0 5-4-9 19-10-0 21-4-0 4-6-7 Scale = 1:39.1 4x6 | 5 7.00 12 36 35 3x4 / 7 3x4 > 3 12 10 11 3x4 = 3x4 = 5x6 = 4x8 / 4x8 > 6-11-12 12-10-4 5-10-8 19-10-0 6-11-12 Plate Offsets (X,Y)-[2:0-3-7,0-1-15], [5:0-2-0,0-0-0], [8:0-3-7,0-1-15], [11:0-3-0,0-3-0]

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

**BOT CHORD** 

(loc)

0.12 10-34

-0.10 12-31

0.02

I/defl

>999

>999

n/a

L/d

240

180

n/a

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

PLATES

Weight: 136 lb

MT20

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

GRIP

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

20.0

7.0

0.0

10.0

OTHERS 2x4 SP No.3

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)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

2-0-0

1.25

1.25

YES

CSI.

TC

BC

WB 0.52

Matrix-MS

0.61

0.41

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

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

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

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.
- \* 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) except (jt=lb) 2=334, 8=334.



Joaquin Velez PE No.68182 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 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 bracing is always required for stability and to prevent ucling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent ucling of individual truss was and building designer of the 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 20501



Job Truss Truss Type Qty SIMQUE - LOT 145 PLL T23987301 2802418 V01 GABLE Job Reference (optional) Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:49 2021 Page 1 Builders FirstSource (Jacksonville, FL), ID:RGwSt4cPREnm5p9yfgzNgAycgdx-vyqdBt\_9fVOBPRnvT0e9yWWtfq2G2qpp8hLC5\_zGK5q 7.00 12 Scale = 1:59.2 TRUSS DESIGNED FOR WIND LOADS IN THE PLANE OF THE TRUSS ONLY. FOR STUDS EXPOSED TO WIND (NORMAL TO THE FACE), SEE STANDARD INDUSTRY GABLE END DETAILS AS APPLICABLE, OR CONSULT QUALIFIED BUILDING DESIGNER AS PER ANSI/TPI 1. 3x6 / 3x6 / 12 15 13 20 19 18 17 16 14 5x6 = 20-3-10 20-3-10 Plate Offsets (X,Y)-- [18:0-3-0,0-3-0] **PLATES** GRIP DEFL L/d SPACING-2-0-0 CSI I/defl LOADING (psf) in (loc) 244/190 Plate Grip DOL Vert(LL) 999 MT20 n/a TCLL 20.0 1.25 TC 0.11 n/a 999 0.06 n/a 1.25 BC Vert(CT) n/a TCDL 70 Lumber DOL Rep Stress Incr WB Horz(CT) 0.00 18 n/a 0.14 n/a BCLL 0.0 YES Code FBC2020/TPI2014 Weight: 145 lb FT = 20% Matrix-S

LUMBER-

BCDL

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

100

2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3 BRACING-

WEBS

TOP CHORD **BOT CHORD** 

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt

11-12, 9-14, 10-13

REACTIONS. All bearings 20-3-10.

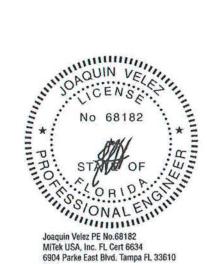
(lb) - Max Horz 1=555(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 12, 1, 19 except 20=-159(LC 12), 18=-109(LC 12), 17=-104(LC 12), 16=-105(LC 12), 15=-105(LC 12), 14=-103(LC 12), 13=-118(LC 12)

All reactions 250 lb or less at joint(s) 12, 20, 19, 18, 17, 16, 15, 14, 13 except 1=261(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-604/339, 2-3=-508/279, 3-4=-449/250, 4-5=-378/210, 5-6=-311/174

- 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) 1-0-8 to 4-0-0, Interior(1) 4-0-0 to 20-1-14 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 1, 19 except (jt=lb) 20=159, 18=109, 17=104, 16=105, 15=105, 14=103, 13=118.



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 MTTek® 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 properly 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



Job	Truss	Truss Type	Qt	y F	Ply	SIMQUE - LOT 145	PLL	Jan // evoc shares
2802418	V02	GABLE	2		1			T23987
Builders FirstSource (.	Jacksonville, FL), Jackso	nville, FL - 32244,	ID:RGwSt4cPREr 18-3-10 18-3-10				orial) stries, Inc. Sat May 15 07: 21bM51kAOVj31hEMhnGi	
	10-8-2	3x6 =	7.00	5		15 6	CD C	Scale = 1:
	3x	13	12 11 3x6 =	10		9	8	
	J-		18-3-10 18-3-10				4	
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/TP	2-0-0 CSI. 1.25 TC 0.16 1.25 BC 0.18 YES WB 0.22 12014 Matrix-S	Vert(CT)	in n/a n/a -0.00	(loc) - - 8	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 104 lb	GRIP 244/190 FT = 20%

**BOT CHORD** 

WEBS

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

7-8, 6-9

1 Row at midpt

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

**OTHERS** 2x4 SP No.3

REACTIONS. All bearings 18-3-10.

(lb) - Max Horz 1=511(LC 12) Max Uplift All uplift 100 lb or less at joint(s) 8, 1 except 13=-218(LC 12), 12=-206(LC 12), 10=-217(LC 12),

9=-178(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 8, 1 except 13=401(LC 19), 12=411(LC 19), 10=468(LC 19),

9=365(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-550/311, 2-4=-416/236, 4-5=-283/164

WEBS

2-13=-255/236, 5-10=-256/241

### 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 18-1-14 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) 8, 1 except (jt=lb) 13=218, 12=206, 10=217, 9=178.



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

May 18,2021

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SIMQUE - LOT 145 PLL Qty Truss Type Ply Truss Job T23987303 V03 Valley 2 2802418 | Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:51 2021 Page 1 Builders FirstSource (Jacksonville, FL). Jacksonville FL - 32244 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-rLyNcZ?PB6evflxHbRhd2xcCGehgWjf6c?qJ9tzGK5o Scale = 1:54.2 2x4 || 7.00 12 2x4 || 12 2x4 || 3x6 / 2x4 || 2 3x6 / 9 8 10 2x4 || 5x6 = 2x4 || 2x4 II 16-3-10 Plate Offsets (X,Y)- [9:0-3-0,0-3-0] LOADING (psf) PLATES GRIP SPACING-2-0-0 CSI. DEFL in (loc) I/defl 1 /d 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.17 Vert(LL) n/a n/a 999 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.19 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.24 Horz(CT) 0.00 n/a n/a Code FBC2020/TPI2014 Weight: 84 lb FT = 20% BCDL 10.0 Matrix-S

LUMBER-

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

2x4 SP No.3 WEBS 2x4 SP No.3 **OTHERS** 

BRACING-TOP CHORD

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

except end verticals.

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

1 Row at midpt 6-7

REACTIONS. All bearings 16-3-3.

Max Horz 1=453(LC 12) (lb) -

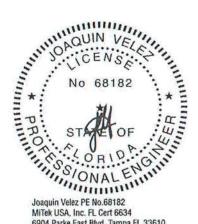
Max Uplift All uplift 100 lb or less at joint(s) 7, 1 except 8=-226(LC 12), 9=-201(LC 12), 10=-229(LC 12) Max Grav All reactions 250 lb or less at joint(s) 7, 1 except 8=491(LC 19), 9=400(LC 19), 10=422(LC 19)

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

TOP CHORD WEBS

1-2=-476/279, 2-4=-336/196 5-8=-269/253, 2-10=-268/247

- 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 16-1-14 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 1 except (it=lb) 8=226, 9=201, 10=229.



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May 18,2021

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



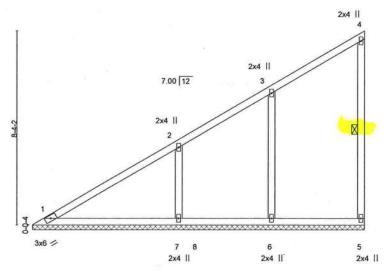
SIMOUF - LOT 145 PLL Job Truss Truss Type Qty Ply T23987304 2802418 V04 Valley 1 Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244.

8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:52 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-KXVlpv01yQmmGvWU89Csa88K42?pFBSGqfZshJzGK5n

Scale: 1/4"=1"



LOADIN		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	16
TCLL	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	n/a		n/a	999	1		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	5	n/a	n/a			
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-S						Weight: 69 lb	FT = 20%	

LUMBER-

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

2x4 SP No.3 OTHERS

BRACING-

WEBS

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

4-5

1

**BOT CHORD** 

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt

REACTIONS. All bearings 14-3-3.

(lb) - Max Horz 1=395(LC 12)

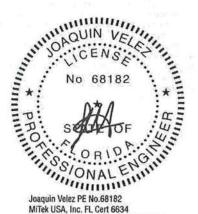
Max Uplift All uplift 100 lb or less at joint(s) 5 except 6=-189(LC 12), 7=-309(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=421(LC 19), 7=588(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-379/243

WEBS 2-7=-356/325

### 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 14-1-14 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 6=189, 7=309.



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

May 18,2021

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ANS/ITP11 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 SIMOUE - LOT 145 PLL T23987305 V05 Valley 2802418 Job Reference (optional)

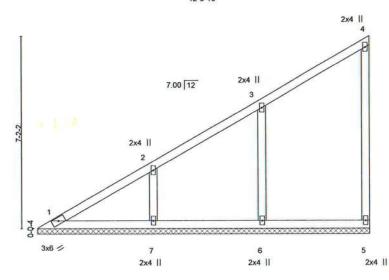
Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:53 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-ok371F1fjjucu34gisj57MhYuSNf\_fHP3JJQEIzGK5m

12-3-10

Scale = 1:41.2



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	n/a	37	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	n/a		n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S	22, 12					Weight: 58 lb	FT = 20%

LUMBER-

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

2x4 SP No.3

BRACING-TOP CHORD

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

except end verticals.

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

REACTIONS. All bearings 12-3-3.

(lb) - Max Horz 1=337(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 5 except 6=-220(LC 12), 7=-225(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=444(LC 19), 7=411(LC 19)

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

WEBS

1-2=-348/228

TOP CHORD

3-6=-263/255, 2-7=-262/248

### 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 12-1-14 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) Gable requires continuous bottom chord bearing.
  4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 6=220, 7=225.



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

May 18,2021

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6904 Parke East Blvd. Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 145 PLL
2802418	V06	Valley	2	1	T2398730
	Total Control of the		77.0	7//	Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:53 2021 Page 1  $ID:RGwSt4cPREnm5p9yfgzNgAycgdx-ok371F1fjjucu34gisj57MhVnSLv\_fNP3JJQElzGK5m$ 

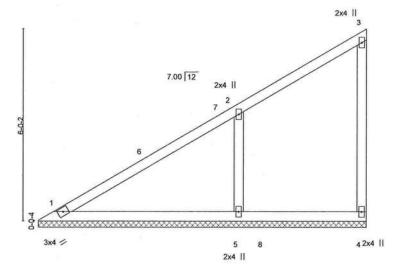
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

10-3-10

Scale = 1:34.7



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defi	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	n/a	-	n/a	999	5/197/0194015		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	4	n/a	n/a	T		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S						Weight: 45 lb	FT = 20%	

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

**OTHERS** 

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

2x4 SP No.3

(size) 1=10-3-3, 4=10-3-3, 5=10-3-3

Max Horz 1=242(LC 12)

Max Uplift 4=-36(LC 14), 5=-272(LC 12)

Max Grav 1=185(LC 20), 4=134(LC 19), 5=620(LC 19)

WEBS

REACTIONS.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-5=-373/329

### 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 10-1-14 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=272.



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

May 18,2021

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 145 PLL
2802418	V07	Valley	2	1	T23987307
		- 12 m			Job Reference (optional)
Builders FirstS	Source (Jacksonville, FL), Jackson	onville, FL - 32244,		8.430 s Ap	or 20 2021 MiTek Industries, Inc. Sat May 15 07:26:55 2021 Page 1

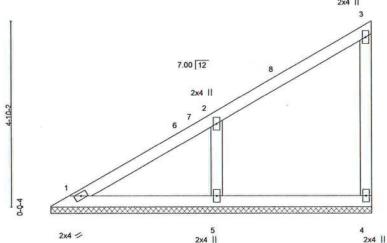
ID:RGwSt4cPREnm5p9yfgzNgAycgdx-k6BuSx2wEL8K7ME3qHIZCnmu1F3WSZ5iWdoXIezGK5k

2x4 ||

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

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

except end verticals.



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	n/a	22	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	80.0	Horz(CT)	0.00	4	n/a	n/a	911	
BCDL	10.0	Code FBC2020/	TPI2014	Matri	x-S	20 151					Weight: 35 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

**OTHERS** 2x4 SP No.3

REACTIONS.

(size) 1=8-3-3, 4=8-3-3, 5=8-3-3

Max Horz 1=202(LC 12)

Max Uplift 4=-50(LC 12), 5=-227(LC 12)

Max Grav 1=108(LC 1), 4=125(LC 19), 5=380(LC 19)

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

WEBS

2-5=-282/283

### 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 8-1-14 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=227.



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



6904 Parke East Blvd. Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 145 PLL
2802418	V08	Valley	2	1	T23987308
					Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

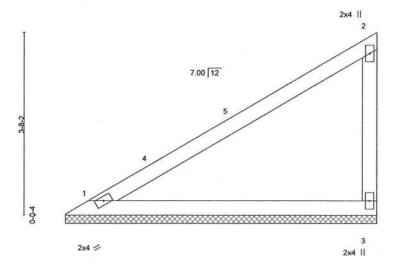
8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:56 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-CJIGfH3Y?eGBIWpFN?Gok\_Jz5fLdB1frlHX4q4zGK5j

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

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

except end verticals.

Scale = 1:22.3



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	n/a		n/a	999	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	n/a		n/a	999	1. ANY 320		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-P						Weight: 24 lb	FT = 20%	

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS.

(size) 1=6-3-3, 3=6-3-3

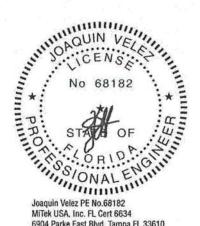
Max Horz 1=163(LC 12)

Max Uplift 1=-52(LC 12), 3=-147(LC 12) Max Grav 1=208(LC 1), 3=230(LC 19)

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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 6-1-14 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 3=147.



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May 18,2021

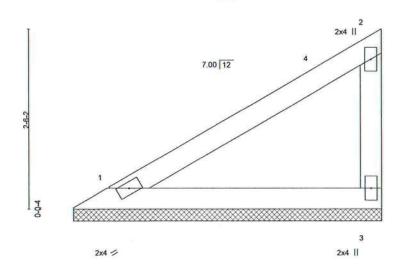
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Newtonios - vehi design parameters and reach forces on First AND inccoded miles received and incoded by the service of the ser



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 145 PLL	T2398730
2802418	V09	Valley	2	1	Job Reference (optional)	12550750
Builders FirstSour	rce (Jacksonville, FL), Jac	ksonville, FL - 32244,			pr 20 2021 MiTek Industries, Inc. Sat May 15 zNgAycgdx-gVJetc4AmyO2NgORxio1HCrDk	

4-3-10

Scale = 1:15.4



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
CLL	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	n/a	15	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a	110	
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-P						Weight: 16 lb	FT = 20%

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) 1=4-3-3, 3=4-3-3

Max Horz 1=105(LC 12) Max Uplift 1=-33(LC 12), 3=-95(LC 12)

Max Grav 1=134(LC 1), 3=148(LC 19)

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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 4-1-14 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

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

except end verticals.

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

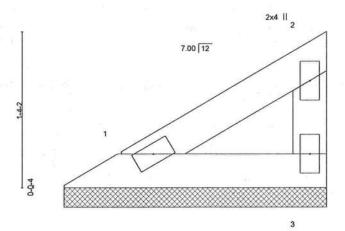
May 18,2021



6904 Parke East Blvd. Tampa, FL 36610 Job Truss Type Qty SIMQUE - LOT 145 PLL Truss T23987310 Valley V10 2 2802418 Job Reference (optional) Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Sat May 15 07:26:59 2021 Page 1 Builders FirstSource (Jacksonville, FL),

ID:RGwSt4cPREnm5p9yfgzNgAycgdx-cuRPli6QIZemc\_Yq37qVMdxcAsSAOOOHRFmkRPzGK5g

Scale = 1:9.5



2x4 /

2x4 ||

except end verticals.

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	0.05	Vert(LL)	n/a	1.71	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	270	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a	1	
BCDL	10.0	Code FBC2020/	TPI2014	Matri	x-P	6.8					Weight: 7 lb	FT = 20%

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) 1=2-3-3, 3=2-3-3

Max Horz 1=47(LC 12) Max Uplift 1=-15(LC 12), 3=-42(LC 12)

Max Grav 1=60(LC 1), 3=66(LC 19)

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) 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \*This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



Structural wood sheathing directly applied or 2-3-10 oc purlins,

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

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 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 design. 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



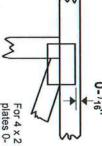
### Symbols

# PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.

Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



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

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

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

### PLATE SIZE

4 × 4

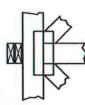
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

### BEARING



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

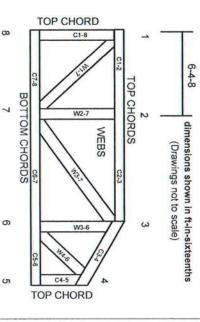
### Industry Standards: ANSI/TPI1: National I

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information,

DSB-89: Desi BCSI: Build

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.

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

# **General Safety Notes**

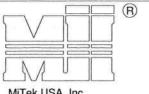
## Failure to Follow Could Cause Property Damage or Personal Injury

- 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.
- Cut members to bear tightly against each other
- 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.
- 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.
- The design does not take into account any dynamic or other loads other than those expressly stated.

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

MII-T-BRACE 2

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc.

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

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

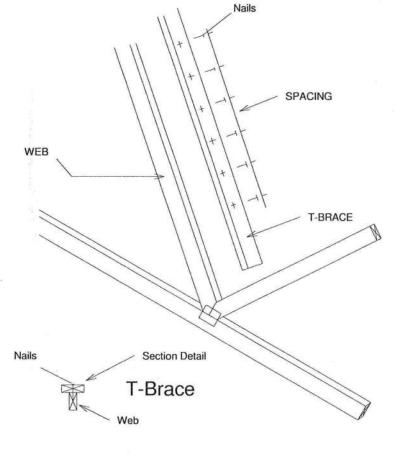
1	Nailing Pattern	
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.

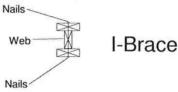
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)

		e Size -Ply Truss
		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

		e Size -Ply Truss
		Continuous iteral Bracing
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

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







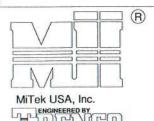
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

### SCAB-BRACE DETAIL

### MII-SCAB-BRACE

MiTek USA, Inc.

Page 1 of 1

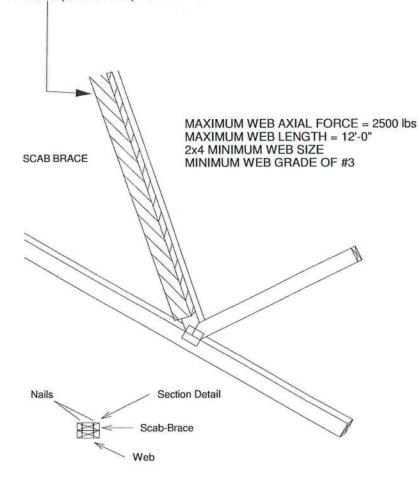


Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.

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

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

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



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



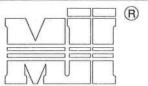
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

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

MII-REP05

February 12, 2018

MiTek USA, Inc. Page 1 of 1

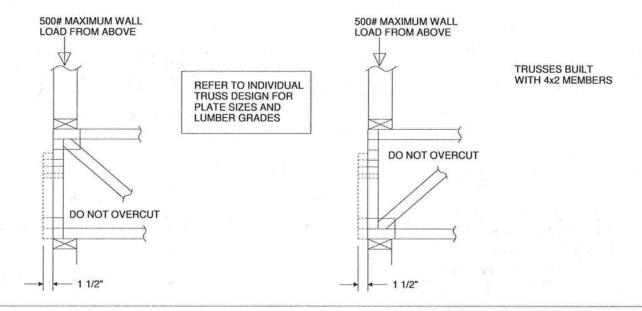


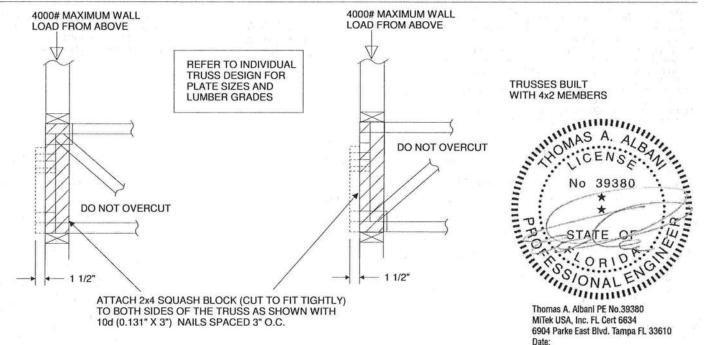
MiTek USA, Inc.

- 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
- 2. ALL MEMBERS MOST BE RETURNED TO THEIR ORIGINAL FOSTITIONS 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.

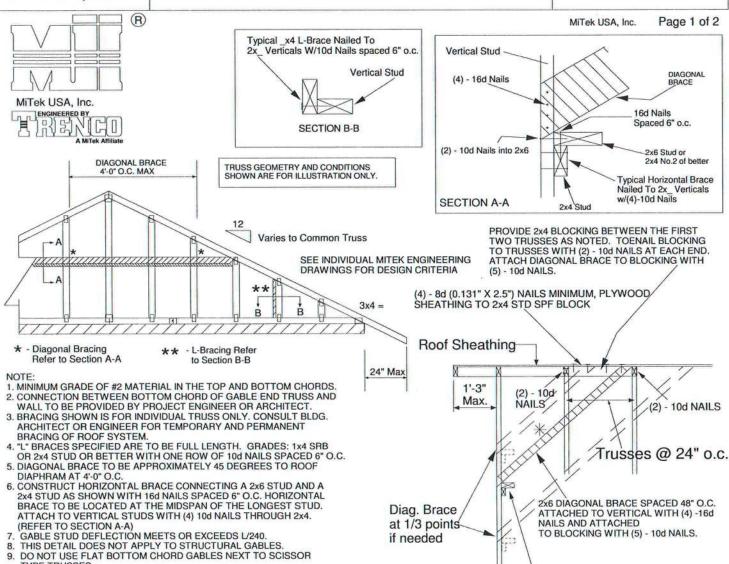
  4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.
- 5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE AV. ORIENTATION ONLY.
  6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.





### Standard Gable End Detail

### MII-GE130-D-SP



End Wall

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE
06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND
NAILS DESIGNATED 16d ARE (0.131" X 3.5")

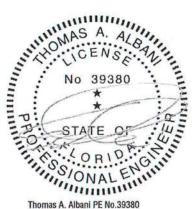
TYPE TRUSSES.

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

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

MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE D ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPF 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.



HORIZONTAL BRACE

(SEE SECTION A-A)

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

### Standard Gable End Detail

MII-GE130-SP

Page 1 of 2

DIAGONAL BRACE

16d Nails Spaced 6" o.c.

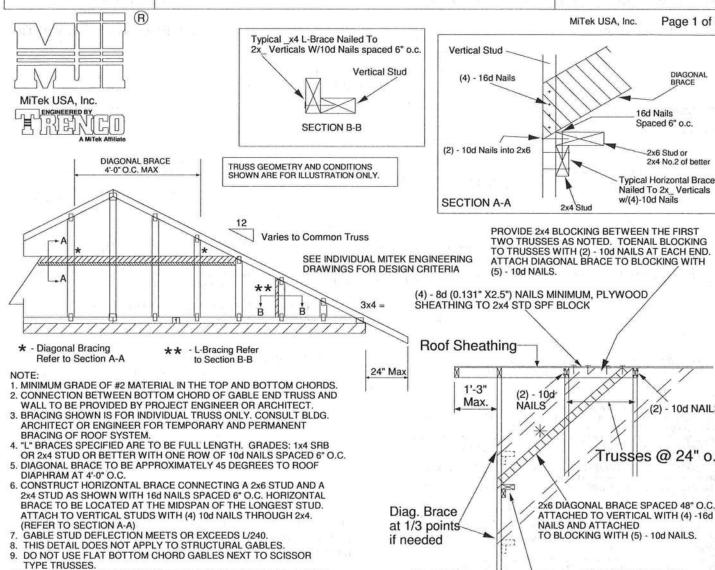
2x6 Stud or

Typical Horizontal Brace Nailed To 2x\_ Verticals w/(4)-10d Nails

2x4 No.2 of better

(2) - 10d NAILS

Trusses @ 24" o.c.



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	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS			
Species and Grade			Maximu	m Stud Le	ngth				
2x4 SP No. 3 / Stud	12" O.C.	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

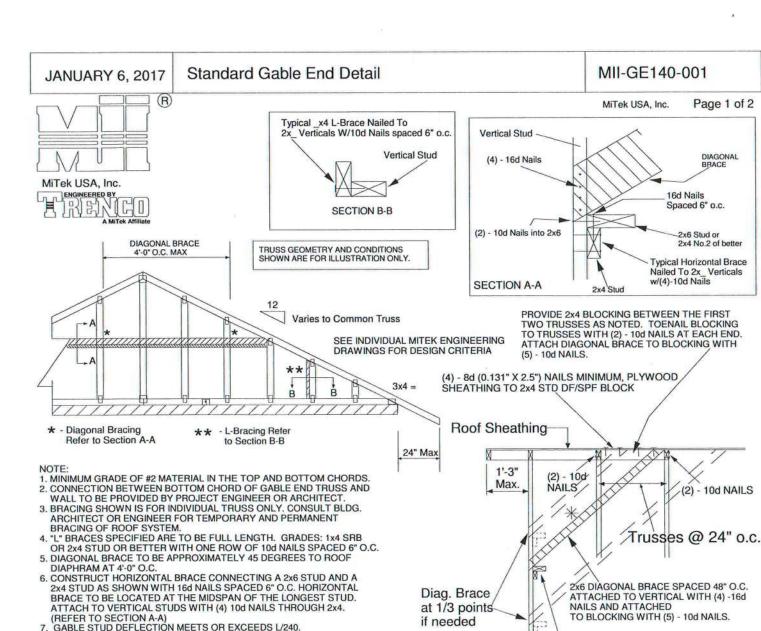
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.

End Wall



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



End Wall

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

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

8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR

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

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

TYPE TRUSSES.

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



HORIZONTAL BRACE

(SEE SECTION A-A)

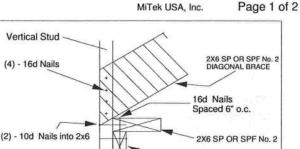
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R

DIAGONAL BRACE 4'-0" O.C. MAX

### Standard Gable End Detail

MII-GE170-D-SP



Typical Horizontal Brace

(2) - 10d NAILS

Trusses @ 24" o.c.

Nailed To 2x4 Verticals w/(4)-10d Nails

MiTek USA, Inc.

ENGINEERED B

Typical 2x4 L-Brace Nailed To 2x4 Verticals W/10d Nails spaced 6" o.c. Vertical Stud SECTION B-B

TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

3x4 =

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

2X4 SP OR SPF No. 2

- Diagonal Bracing Refer to Section A-A

\*\* - L-Bracing Refer to Section B-B

NOTE:

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

WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.

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.

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

Minimum Stud Size	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
Species and Grade	1 - 5		Maximum St	ud 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.

No 39380

STATE OF WAR

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

February 12, 2018

24" Max

Diag. Brace at 1/3 points if needed

1'-0" Max. NAILS End Wall

Roof Sheathing

Vertical Stud

(4) - 16d Nails

SECTION A-A

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

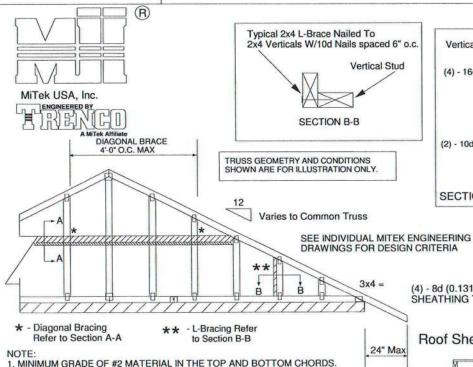
- 10d

2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS, AND ATTACHED TO BLOCKING WITH (5) -10d NAILS.

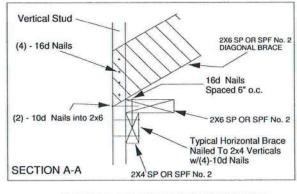
HORIZONTAL BRACE (SEE SECTION A-A)

### Standard Gable End Detail

MII-GE180-D-SP



MiTek USA, Inc. Page 1 of 2



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" X 2.5") NAILS MINIMUM, PLYWOOD, SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

1'-0'

- 10d Max. NAILS (2) - 10d NAILS

Trusses @ 24" o.c.

Diag. Brace at 1/3 points if needed

End Wall

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)

2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.

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

"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. 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.

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

Minimum Stud Size Species	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS			
and Grade		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 ASCE 7-10 180 MPH DURATION OF LOAD INCREASE: 1.60

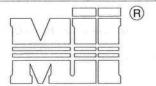
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



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

### STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MiTek USA, Inc. Page 1 of 1

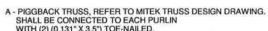


MiTek USA, Inc.

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

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

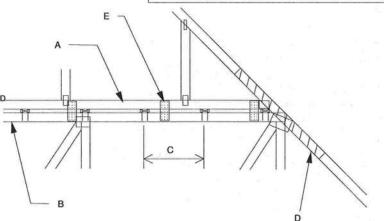
DURATION OF LOAD INCREASE: 1.60



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
DIRECTIONS AND: DIRECTIONS AND:

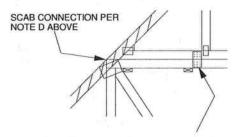
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR 2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM

PIGGYBACK SPAN OF 12 ft. E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72° O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REO. REGARDLESS OF SPAN)

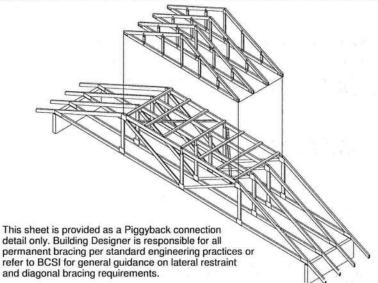


### WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

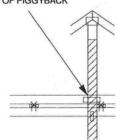
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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.

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

MiTek USA, Inc.

ENGINEERED B

### STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

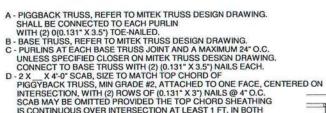
MII-PIGGY-ALT 7 - 10

MiTek USA, Inc. Page 1 of 1

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

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 **DURATION OF LOAD INCREASE: 1.60** 

D

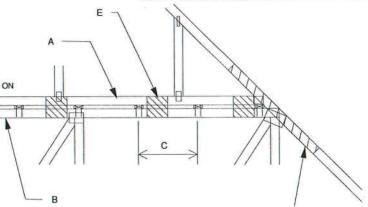


(R)

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

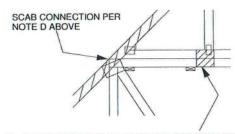
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR 2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM

2. WIND SPEED OF THE MFH TO 160 MFH 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 7716" OSB) GUSSET EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH 3 - 60 (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)

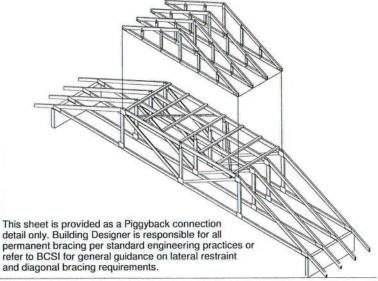


### WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

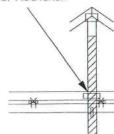
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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)



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



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

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

AS SHOWN IN DETAIL.

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

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

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



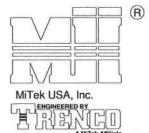
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### STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES

### MII-REP01A1

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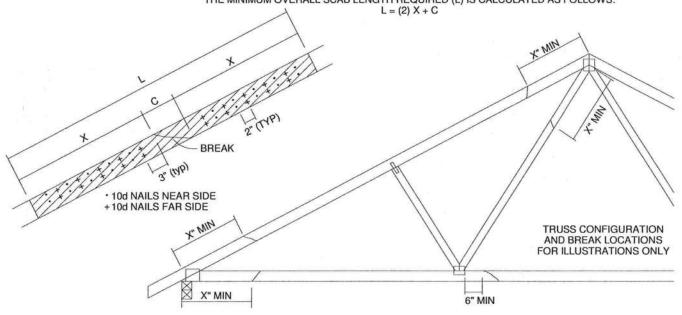


TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *				MAX	IMUM FO	RCE (lbs)	15% LOA	D DURAT	ION	
		X INCHES	SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	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

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.

No 39380

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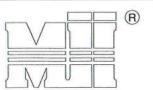
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### LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP

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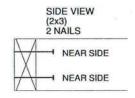


### NOTES:

- 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.
- ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

### THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY



	DIAM.	SP	DF	HF	SPF	SPF-S
O	.131	88.0	80.6	69.9	68.4	59.7
LONG	.135	93.5	85.6	74.2	72.6	63.4
3.5" L	.162	108.8	99.6	86.4	84.5	73.8
Š	.128	74.2	67.9	58.9	57.6	50.3
LONG	.131	75.9	69.5	60.3	59.0	51.1
.25"	.148	81.4	74.5	64.6	63.2	52.5

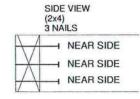
VALUES SHOWN ARE CAPACITY PER TOE-NAIL. APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

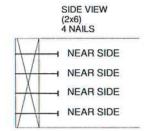
### EXAMPLE:

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

For load duration increase of 1.15:

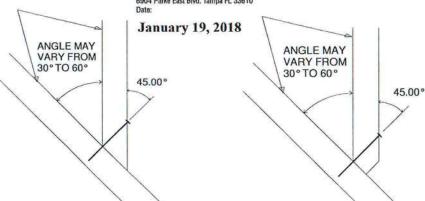
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

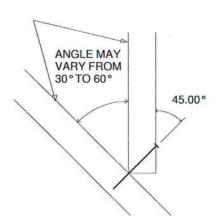






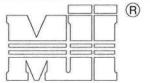
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blyd. Tampa FL 33610





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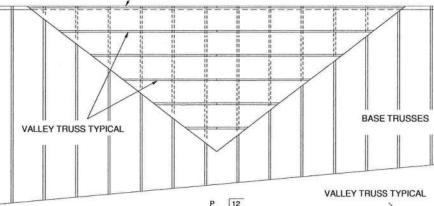


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GABLE END, COMMON TRUSS OR GIRDER TRUSS

### **GENERAL SPECIFICATIONS**

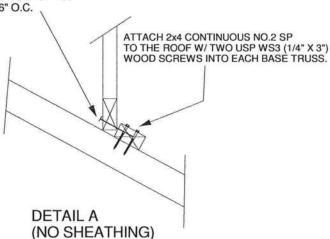
- 1. NAIL SIZE 10d (0.131" X 3")
  2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT DO NOT USE DRYWALL OR DECKING TYPE SCREW
- INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN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



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

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

N.T.S.



WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING **EXPOSURE C** WIND DURATION OF LOAD INCREASE: 1.60

MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY) MINIMUM REDUCED DEAD LOAD OF 6 PSF ON THE TRUSSES

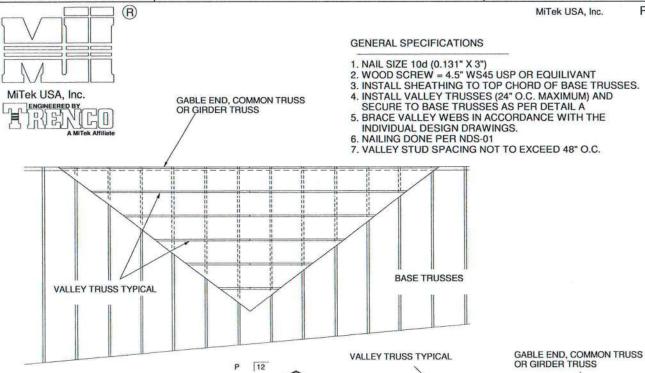


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### TRUSSED VALLEY SET DETAIL

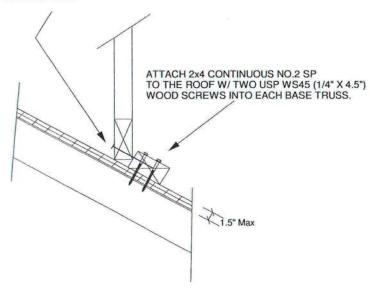
MII-VALLEY HIGH WIND2

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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)

ON THE TRUSSES

MINIMUM REDUCED DEAD LOAD OF 6 PSF 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:

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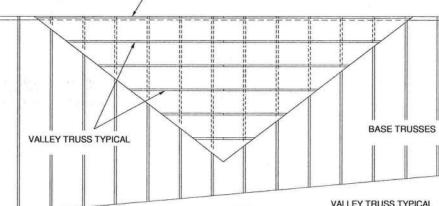
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### **GENERAL SPECIFICATIONS**

- 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.
- 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

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

SECURE VALLEY TRUSS W/ ONE ROW OF 16d NAILS 6" O.C. ATTACH 2x4 CONTINUOUS NO.2 SP TO THE ROOF W/ TWO 16d NAILS INTO EACH BASE TRUSS. **DETAIL A** (MAXIMUM 1" SHEATHING) N.T.S.

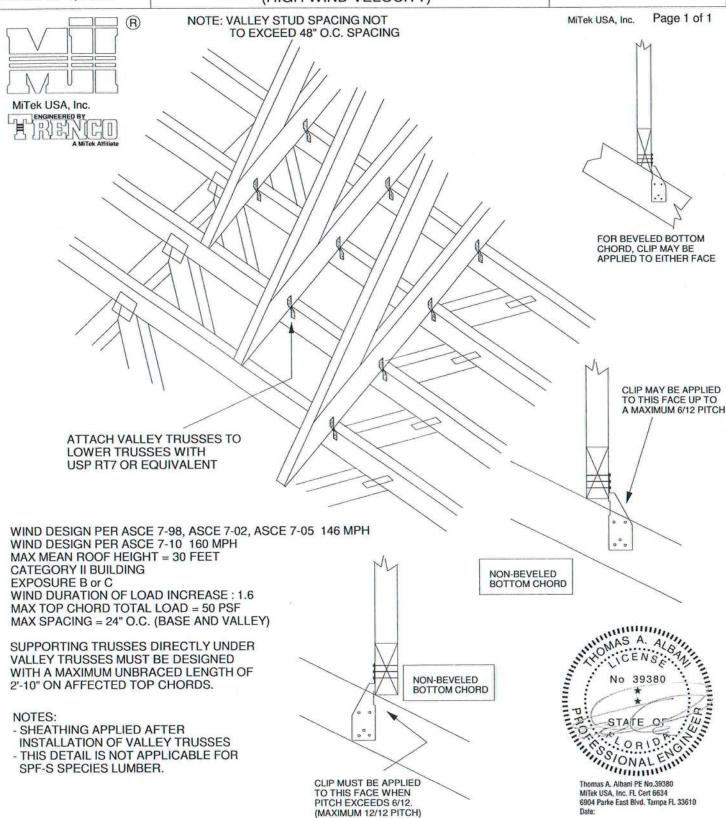
WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10 150 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12 CATEGORY II BUILDING EXPOSURE C OR B EXPOSURE C OH B
WIND DURATION OF LOAD INCREASE: 1.60
MAX TOP CHORD TOTAL LOAD = 60 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 4.2 PSF ON THE TRUSSES



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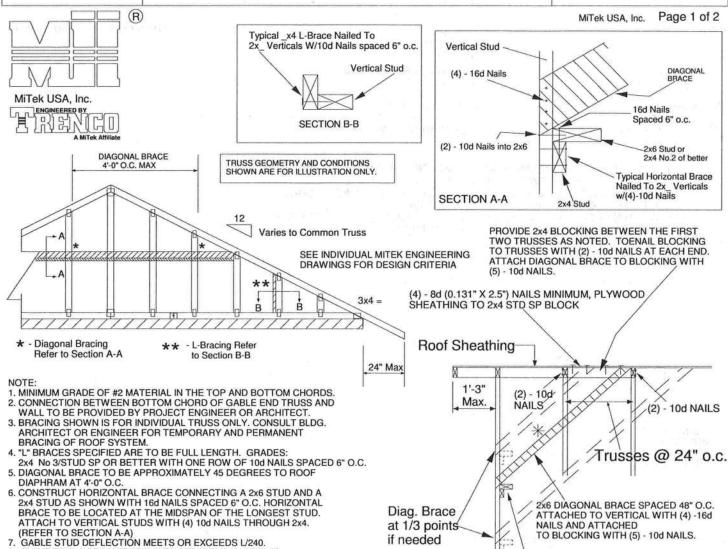
### TRUSSED VALLEY SET DETAIL (HIGH WIND VELOCITY)

MII-VALLEY



### Standard Gable End Detail

### MII-GE146-001



End Wall

THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR

TYPE TRUSSES

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

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

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

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

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



HORIZONTAL BRACE

(SEE SECTION A-A)

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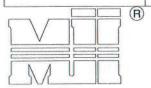
**OCTOBER 5, 2016** 

### REPLACE BROKEN OVERHANG

MII-REP13B

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TRUSS CRITERIA: LOADING: 40-10-0-10 **DURATION FACTOR: 1.15** SPACING: 24" O.C.

TOP CHORD: 2x4 OR 2x6 PITCH: 4/12 - 12/12

HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL

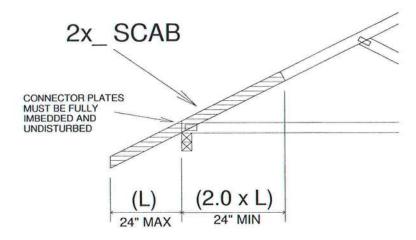
**END BEARING CONDITION** 

### NOTES:

1. ATTACH 2x\_ SCAB (MINIMUM NO.2 GRADE SPF, HF, SP, DF) TO ONE FACE OF

TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C. 2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.

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



### **IMPORTANT**

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

REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



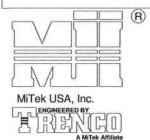
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### LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

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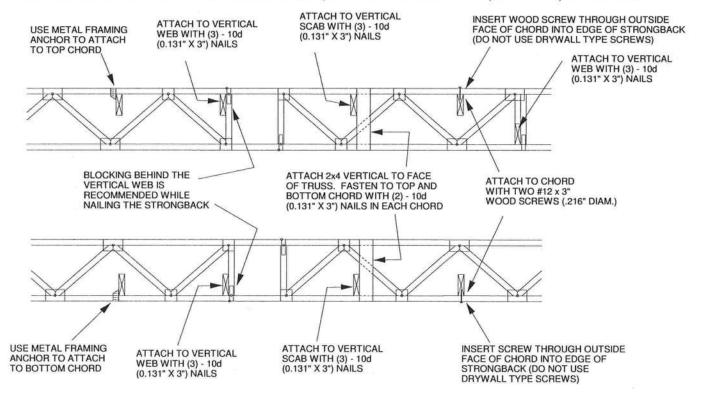
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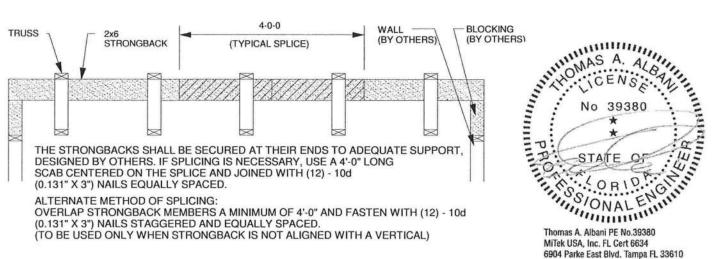


TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

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.





February 12, 2018

Date

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