

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

RE: 2561777 - SIMQUE - LOT 52 PLL

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Project Name: Customer Info:

Model:

Lot/Block:

Subdivision:

Address:

City:

State:

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

Name:

License #:

Address:

City:

State:

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

Design Code: FBC2017/TPI2014

Design Program: MiTek 20/20 8.2

Wind Code: ASCE 7-10 Roof Load: 37.0 psf

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

This package includes 39 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No. 123456789111234567	Seal# T22054651 T22054653 T22054655 T22054656 T22054656 T22054657 T22054659 T22054660 T22054661 T22054661 T22054663 T22054666 T22054665 T22054666 T22054666 T22054666 T22054666	Truss Name CJ01 CJ03 CJ03A CJ03B CJ05 CJ05A EJ01 EJ02 EJ03 EJ04 HJ07 HJ10 PB01 PB02 PB03 PB04 T01	Date 12/3/20 12/3/20 12/3/20 12/3/20 12/3/20 12/3/20 12/3/20 12/3/20 12/3/20 12/3/20 12/3/20 12/3/20 12/3/20 12/3/20 12/3/20 12/3/20 12/3/20 12/3/20	No. 234 255 266 278 239 331 323 334 335 337 339	Seal# T22054673 T22054674 T22054676 T22054677 T22054677 T22054679 T22054680 T22054681 T22054684 T22054684 T22054685 T22054686 T22054686 T22054686 T22054686 T22054688	Truss Name T05 T06 T07 T08 T09 T10 T11 T12 T13 T14 T15 T16 T17 T18 T19 T20 T21	Date 12/3/20
15 16 17 18 19 20 21 22	T22054664 T22054665 T22054666	PB02 PB03 PB04	12/3/20 12/3/20 12/3/20	36 37 38	T22054686 T22054687 T22054688	T18 T19 T20	12/3/20 12/3/20 12/3/20



The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Jacksonville.

Truss Design Engineer's Name: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2021.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



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

December 3,2020

Job SIMQUE - LOT 52 PLL Truss Truss Type Qty Ply T22054651 CJ01 2561777 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:13 2020 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:GjsENh3AN7JWL7eGMO7rqozizFI-ofmi8TgEmv7OG?9X9DGw?E2TM98HlhqmrX45EEyD?cK -1-6-0 1-6-0 1-0-0 Scale = 1:9.4 7.00 12

7.00 12

1-0-0 1-0-0

Plate Of	fsets (X,Y)-	[2:0-1-8,0-1-0]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.03	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MP						Weight: 6 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

24-01-110.2

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

Max Horz 2=51(LC 12)

Max Uplift 3=-6(LC 1), 2=-80(LC 12), 4=-23(LC 19) Max Grav 3=8(LC 16), 2=179(LC 1), 4=22(LC 16)

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

NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 3, 80 lb uplift at joint 2 and 23 lb uplift at joint 4.



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

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

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

December 3,2020

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



Job Truss Truss Type Qty SIMQUE - LOT 52 PLL T22054652 CJ03 2561777 Jack-Open Job Reference (optional) Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:14 2020 Page 1 Builders FirstSource (Jacksonville, FL), ID:GjsENh3AN7JWL7eGMO7rqozizFI-GrK4LphsXCFFu9kjjwn9YRae6ZTYU84w4BqfmhyD?cJ 3-0-0 1-6-0 Scale = 1:15.3 7.00 12 1-8-11 0-4-10 Plate Offsets (X,Y)- [2:0-1-8,0-1-0] LOADING (psf) DEFL. **PLATES** GRIP SPACING-2-0-0 CSI. (loc) I/defl L/d MT20 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.13 Vert(LL) 0.01 4-7 >999 240 TCDL 7.0 Lumber DOL 1.25 BC 0.09 Vert(CT) -0.01 >999 180 WB 0.00 Horz(CT) 0.00 n/a 0.0 Rep Stress Incr YES n/a BCLL Code FBC2017/TPI2014 Matrix-MP Weight: 12 lb FT = 20% 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

BCDL

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

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

Max Horz 2=95(LC 12)

Max Uplift 3=-45(LC 12), 2=-65(LC 12), 4=-19(LC 9) Max Grav 3=62(LC 19), 2=210(LC 1), 4=50(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) 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.
- 4) Refer to girder(s) for truss to truss connections
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 3, 65 lb uplift at joint 2 and 19 lb uplift at joint 4.



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

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

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

December 3,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPIT Quality Criteria, DSB-39 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 52 P	LL	T22054653
2561777	CJ03A	Jack-Open	1	1			122054653
Builders FirstSource (Jackson	pnville, FL), Jacksonville,	FI - 32244		3 240 s Ma	Job Reference (optio	nal) ries, Inc. Wed Dec 2 12	-33-14 2020 Page 1
Duliders I listodures (vackst	stville, i Ej, Jacksonville,	IE):GjsENh3AN7	JWL7eGN	107rqozizFI-GrK4Lphs	XCFFu9kjjwn9YRaffZTU	U84w4BqfmhyD?cJ
		3-0-0					
							Scale = 1:13.6
	_				2 📈		Scale = 1,13.0
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	2-1-10						
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		2x4 =					
		3-0-0					
		2-11-8				T	
LOADING (psf)	SPACING- 2-0-0			n (loc)	l/defl L/d		GRIP
TCLL 20.0 TCDL 7.0	Plate Grip DOL 1.25 Lumber DOL 1.25		t(LL) 0.0 t(CT) -0.0		>999 240 >999 180	MT20	244/190
BCLL 0.0 *	Rep Stress Incr YES	S WB 0.00 Ho	rz(CT) -0.0		n/a n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MP				Weight: 10 lb	FT = 20%
LUMBER.		BRA	CING.				

TOP CHORD

BOT CHORD

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

(size) 1=0-3-8, 2=Mechanical, 3=Mechanical

Max Horz 1=66(LC 12)

Max Uplift 1=-26(LC 9), 2=-51(LC 12), 3=-22(LC 9) Max Grav 1=109(LC 1), 2=71(LC 19), 3=53(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1, 51 lb uplift at joint 2 and 22 lb uplift at joint 3.



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

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

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

December 3,2020

🗥 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 anage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



SIMQUE - LOT 52 PLL Job Truss Truss Type Qty T22054654 2561777 CJ03B Jack-Open Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:15 2020 Page 1 ID:GjsENh3AN7JWL7eGMO7rqozizFI-k2uSZ9iVIWN6VJJwHdIO4f7pezpdDbK3JrZCJ7yD?cl -1-6-0 3-0-0 Scale = 1:15.3 1-1-10 7.00 12

> 2-3-8 3-0-0 2-3-8 0-8-8

6_{2x4} ||

Plate Of	fsets (X,Y)-	[3:0-6-4,0-3-1]										
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	-0.01	6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.01	6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MR						Weight: 14 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

3-6: 2x4 SP No.3

REACTIONS. (size) 4=Mechanical, 2=

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical Max Horz 2=95(LC 12)

Max Uplift 4=-30(LC 12), 2=-64(LC 12), 5=-12(LC 12)

0-4-10

Max Grav 4=55(LC 19), 2=212(LC 1), 5=48(LC 3)

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

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 4, 64 lb uplift at joint 2 and 12 lb uplift at joint 5.



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

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

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

December 3,2020

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Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, crection and bracing of trusses and truss systems, see **ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



LUMBER-				BRACING-						
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2017/TP	2-0-0 CS 1.25 TC 1.25 BC YES W 12014 Ma	0.28	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.07 -0.05 -0.00	4-7 4-7	I/defl >908 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 19 lb	GRIP 244/190 FT = 20%
		<u> </u>		5-0-0 5-0-0						
		3x4 =						4		
	1 ,	//								
	0-4-10							\longrightarrow \mathbb{N}		
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Builders FirstSource (Ja	cksonville, FL), Jackson	nville, FL - 32244,	,	ID:GjsENh3	8.2 AN7JW	240 s Ma L7eGM0	ar 9 2020	MiTek Industri	es, Inc. Wed Dec 2 12 Wz7Tu6qLpddsgyEN5	2:33:16 2020 Page 1 Ey2aDXVJlrZyD?cH
2561777	CJ05	Jack-Open		3		1		ference (option	al)	T22054655
Job	Truss	Truss Type		Qt	′	Ply	SIMQU	JE - LOT 52 PL	L	

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

Max Horz 2=140(LC 12)

Max Uplift 3=-85(LC 12), 2=-71(LC 12), 4=-34(LC 9)

Max Grav 3=117(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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 3, 71 lb uplift at joint 2 and 34 lb uplift at joint 4.



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

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

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

December 3,2020

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Job Truss Truss Type Qty SIMQUE - LOT 52 PLL T22054656 2561777 CJ05A Jack-Open Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:17 2020 Page 1 ID: GjsENh3AN7JWL7eGMO7rqozizFI-hQ?Czrjlq7eqldSIO2KsA4C7XnR6hVpMm92JN?yD?cGScale = 1:19.7 7.00 12 0-4-10 3 4-11-8 Plate Offsets (X,Y)-[1:0-1-12,Edge] SPACING-2-0-0 CSI. DEFL **PLATES** GRIP LOADING (psf) (loc) I/defl L/d TCLL 20.0 Plate Grip DOL 1.25 TC 0.31 Vert(LL) 0.07 3-6 >820 240 MT20 244/190 BC TCDL 7.0 Lumber DOL 1.25 0.29 Vert(CT) -0.06 3-6 >970 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 n/a n/a BCDI 10.0 Code FBC2017/TPI2014 Matrix-MP Weight: 16 lb FT = 20% BRACING-LUMBER-

TOP CHORD

BOT CHORD

TOP CHORD BOT CHORD REACTIONS.

2x4 SP No.2 2x4 SP No.2

(size) 1=0-3-8, 2=Mechanical, 3=Mechanical Max Horz 1=111(LC 12)

Max Uplift 1=-45(LC 9), 2=-88(LC 12), 3=-35(LC 9) Max Grav 1=183(LC 1), 2=122(LC 19), 3=90(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 1, 88 lb uplift at joint 2 and 35 lb uplift at joint 3.



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

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

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

December 3,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply SIMQUE - LOT 52 PLL T22054657 2561777 EJ01 Jack-Partial Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244. 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:17 2020 Page 1 ID: GjsENh3AN7JWL7eGMO7rqozizFI-hQ?Czrjlq7eqldSIO2KsA4C2XnNjhVpMm92JN?yD?cGindsing and the property of the pScale = 1:26.6 7.00 12 0-4-10 3x4 / 7-0-0 Plate Offsets (X,Y)- [2:0-1-8,0-1-8] LOADING (psf) SPACING-2-0-0 CSL DEFL (loc) I/defi L/d **PLATES** GRIP Plate Grip DOL 20.0 1.25 TC 0.63 TCLL Vert(LL) 0.26 4-7 >319 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.57 Vert(CT) -0.224-7 >379 180 Rep Stress Incr BCLL 0.0 WB 0.00 YES Horz(CT) -0.013 n/a n/a Code FBC2017/TPI2014 BCDL 10.0 Matrix-MS Weight: 25 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

Max Horz 2=185(LC 12)

Max Uplift 3=-122(LC 12), 2=-79(LC 12), 4=-48(LC 9) Max Grav 3=169(LC 19), 2=346(LC 1), 4=126(LC 3)

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

NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 3, 79 lb uplift at joint 2 and 48 lb uplift at joint 4.



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

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

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

December 3,2020

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

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



Job Truss Truss Type Qty SIMQUE - LOT 52 PLL T22054658 F.102 2561777 Jack-Partial Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:18 2020 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:GjsENh3AN7JWL7eGMO7rqozizFI-9dZbBBkNbRmhMn1Uyms5iHlJLAoiQy3V?posvSyD?cF 4-8-0 Scale = 1:20.1 7.00 12 0-4-10 3x4 = 4-8-0 LOADING (psf) SPACING-CSI. DEFL. I/defl L/d **PLATES** GRIP 2-0-0 in (loc) 240 MT20 244/190 Plate Grip DOL 1.25 TC 0.24 Vert(LL) -0.02 4-7 >999 TCLL 20.0 BC 7.0 1.25 0.21 Vert(CT) -0.04 4-7 >999 180 TCDL Lumber DOL WB 0.00 0.00 Rep Stress Incr YES Horz(CT) n/a n/a BCLL 0.0 Code FBC2017/TPI2014 Weight: 18 lb FT = 20%Matrix-MP BCDL 10.0 **BRACING-**LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 4-8-0 oc purlins.

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

REACTIONS.

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

Max Horz 2=133(LC 12)

Max Uplift 3=-78(LC 12), 2=-69(LC 12), 4=-1(LC 12) Max Grav 3=112(LC 19), 2=265(LC 1), 4=82(LC 3)

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

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 3, 69 lb uplift at joint 2 and 1 lb uplift at joint 4.



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

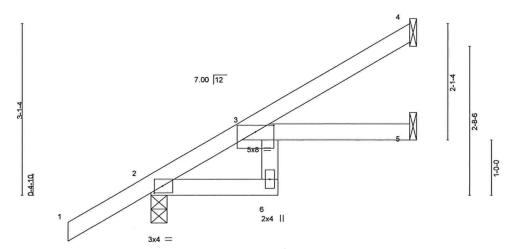
December 3,2020

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



Ply SIMQUE - LOT 52 PLL Job Qty Truss Truss Type T22054659 2561777 EJ03 Jack-Partial Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:19 2020 Page 1 Jacksonville FI - 32244 Builders FirstSource (Jacksonville, FL), ID:GjsENh3AN7JWL7eGMO7rqozizFI-dp7zOXI?MluY_wchWTNKFUHSQa8E9PJfETXPSuyD?cE 1-6-0



					2-3-8	,		2-4-8					
Plate Of	ffsets (X,Y)-	[2:0-1-12,0-1-8], [3:0-4-0	,0-1-7]										
10.10.00.00.00	S1201 020 - 48								991.01.00.1	0.000			
LOADIN	NG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	0.04	6	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOI	1 25	BC.	0.25	Vert(CT)	-0.07	6	>793	180			

4-8-0

Structural wood sheathing directly applied or 4-8-0 oc purlins.

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

BCLL 0.0 0.00 Rep Stress Incr YES WB Horz(CT) 0.04 5 n/a n/a Code FBC2017/TPI2014 BCDL 10.0 Matrix-MR Weight: 20 lb FT = 20%

BRACING-

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=133(LC 12)

Max Uplift 4=-63(LC 12), 2=-68(LC 12), 5=-15(LC 12)

Max Grav 4=101(LC 19), 2=268(LC 1), 5=79(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 4, 68 lb uplift at joint 2 and 15 lb uplift at joint 5.



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

December 3,2020

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Qty SIMQUE - LOT 52 PLL Job Truss Truss Type Ply T22054660 2561777 EJ04 Monopitch Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244. 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:19 2020 Page 1 ID:GjsENh3AN7JWL7eGMO7rqozizFI-dp7zOXI?MluY_wchWTNKFUHQqa5a9PJfETXPSuyD?cE 1-6-0 2x4 || 3 7.00 12 0-1-8 94-10 3x4 = 2x4 || 6-3-8 LOADING (psf) SPACING-CSI. DEFL. L/d PLATES GRIP 2-0-0 TCLL 20.0 Plate Grip DOL 1.25 TC 0.45 Vert(LL) 0.15 6-9 >491 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.42 Vert(CT) -0.12 6-9 >591 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.01 BCDL 10.0 Code FBC2017/TPI2014 Matrix-MP Weight: 28 lb FT = 20%LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD

except end verticals.

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

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

2x4 SP No.3 WEBS

> (size) 6=0-3-8, 2=0-3-8 Max Horz 2=170(LC 12)

Max Uplift 6=-116(LC 12), 2=-72(LC 12)

Max Grav 6=222(LC 1), 2=314(LC 1)

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

NOTES-

REACTIONS.

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 6 and 72 lb uplift at joint 2.



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



Job Truss Type Qty SIMQUE - LOT 52 PLL Truss T22054661 2561777 **HJ07** Diagonal Hip Girder Job Reference (optional) Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:20 2020 Page 1 Builders FirstSource (Jacksonville, FL), ID:GjsENh3AN7JWL7eGMO7rqozizFI-5?hLcsmd720Pc4Bt3BuZniqW7_P_usZoS7Hz_KyD?cD 6-6-7 3-4-5 Scale = 1:19.6 4.95 12 13 0-4-10 12 3x6 = 6-5-11 Plate Offsets (X,Y)-[2:0-0-12,0-0-9], [3:0-9-8,0-1-13] LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.80 Vert(LL) 0.18 6 >423 240 MT20 244/190 1.25 TCDL 7.0 Lumber DOL BC 0.54 Vert(CT) -0.26 6 >301 180 BCLL 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.10 5 n/a n/a Code FBC2017/TPI2014 BCDL 10.0 Matrix-MR Weight: 28 lb FT = 20% LUMBER-**BRACING-**2x4 SP No.2 TOP CHORD 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.

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

3-6: 2x4 SP No.3

2x4 SP No.3

WEBS

REACTIONS.

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

Max Horz 2=132(LC 8)

Max Uplift 4=-92(LC 8), 2=-186(LC 8), 5=-42(LC 8) Max Grav 4=143(LC 1), 2=390(LC 1), 5=117(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 4, 186 lb uplift at joint 2 and 42 lb uplift at joint 5.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 74 lb up at 1-6-1, 66 lb down and 74 lb up at 1-6-1, and 84 lb down and 31 lb up at 4-4-0, and 84 lb down and 31 lb up at 4-4-0 on top chord, and 21 lb down and 51 lb up at 1-6-1, 21 lb down and 51 lb up at 1-6-1, and 32 lb down and 22 lb up at 4-4-0, and 32 lb down and 22 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=54, 3-4=54, 6-7=-20, 3-5=-20

Concentrated Loads (lb)

Vert: 11=-4(F=-2, B=-2) 13=-29(F=-15, B=-15)



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

December 3,2020

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BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

BCDL

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

10.0

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

Max Horz 2=185(LC 8)

Max Uplift 4=-113(LC 8), 2=-311(LC 4), 5=-208(LC 5) Max Grav 4=149(LC 1), 2=527(LC 1), 5=299(LC 1)

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

TOP CHORD 2-3=-712/406

BOT CHORD 2-7=-468/629, 6-7=-468/629

3-7=-109/283, 3-6=-674/501 WEBS

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.

Matrix-MS

- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 4, 311 lb uplift at joint 2 and 208 lb uplift at joint 5.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 74 lb up at 1-6-1, 66 lb down and 74 lb up at 1-6-1, 82 lb down and 47 lb up at 4-4-0, 82 lb down and 47 lb up at 4-4-0, and 111 lb down and 95 lb up at 7-1-15, and 111 lb down and 95 lb up at 7-1-15 on top chord, and 47 lb down and 51 lb up at 1-6-1, 47 lb down and 51 lb up at 1-6-1, 19 lb down and 27 lb up at 4-4-0, 19 lb down and 27 lb up at 4-4-0, and 41 lb down and 49 lb up at 7-1-15, and 41 lb down and 49 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

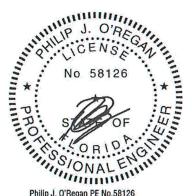
LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 7=-5(F=-3, B=-3) 12=-73(F=-36, B=-36) 14=-59(F=-29, B=-29)



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

Rigid ceiling directly applied or 8-2-0 oc bracing.

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

December 3,2020

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



Job Truss Truss Type Qty Ply SIMQUE - LOT 52 PLL T22054663 PB01 Piggyback 2561777 Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:23 2020 Page 1 ID: GjsENh3AN7JWL7eGMO7rqozizFI-VaNUEuoWQzOzTYwSIJRGPKSBKBWo5DjF95VdbfyD?cA9-6-0 Scale = 1:18.8 4x4 = 3 7.00 12 0-4-5 0-1-10 2x4 || 2x4 = 2x4 =

9-6-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.16 Vert(LL) 0.01 5 n/r 120 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.15 Vert(CT) 0.01 5 n/r 120 0.0 * BCLL Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-S Weight: 31 lb FT = 20% BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.3 **OTHERS**

(size) 2=7-9-11, 4=7-9-11, 6=7-9-11

Max Horz 2=-64(LC 10)

Max Uplift 2=-60(LC 12), 4=-68(LC 13), 6=-53(LC 12) Max Grav 2=167(LC 1), 4=167(LC 1), 6=302(LC 1)

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

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 2, 68 lb uplift at joint 4 and 53 lb uplift at joint 6.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building



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

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

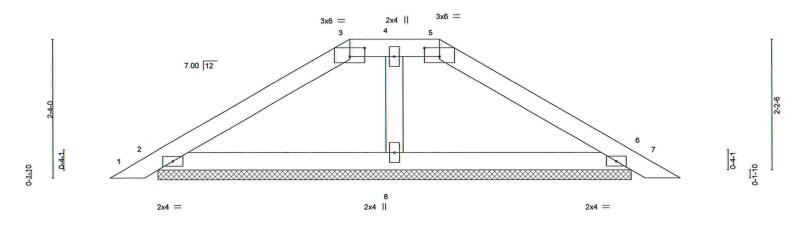
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

December 3,2020

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 amage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



Scale = 1:18.6



Dieta Off	sets (X,Y)-	12:0 2 0 0 1 121 15:0 2 0	0.4.401			9-6-0						1
Plate Oil	sels (A,T)-	[3:0-3-0,0-1-12], [5:0-3-0,	,0-1-12]	T								
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	0.13	Vert(LL)	0.00	7	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	0.01	7	n/r	120		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	K-S						Weight: 30 lb	FT = 20%

9-6-0

LUMBER-

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

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

REACTIONS.

(size) 2=7-10-9, 6=7-10-9, 8=7-10-9 Max Horz 2=-54(LC 10) Max Uplift 2=-76(LC 12), 6=-81(LC 13), 8=-12(LC 12)

Max Grav 2=203(LC 1), 6=203(LC 1), 8=233(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 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.
- * 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 76 lb uplift at joint 2, 81 lb uplift at joint 6 and 12 lb uplift at joint 8.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building



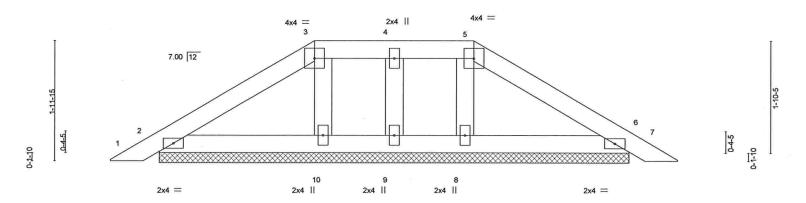
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

December 3,2020

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



Scale = 1:18.4



9-6-0 9-6-0												-	
LOADING TCLL TCDL	20.0 7.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI. TC BC	0.06 0.05	DEFL. Vert(LL) Vert(CT)	in 0.00 0.00	(loc) 7 7	I/defl n/r n/r	L/d 120 120	PLATES MT20	GRIP 244/190	
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code FBC2017/TI	YES PI2014	WB Matri	0.02 x-S	Horz(CT)	0.00	6	n/a	n/a	Weight: 33 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.3

REACTIONS. All bearings 7-9-11.

(lb) - Max Horz 2=45(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 9, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For stude exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 9, 10, 8.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

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

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

December 3,2020

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

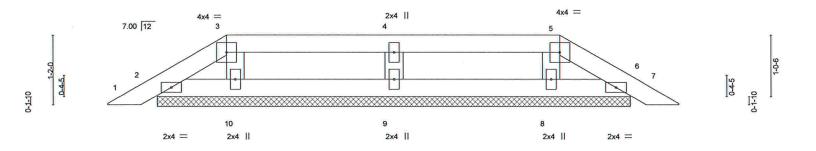
Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall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



1	Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 52 PLL	П
			100 March 100 Ma			T2205466	3
	2561777	PB04	GABLE	1	1		
						Job Reference (optional)	
	Builders FirstSource (Jackso	nville, FL), Jacksonville,	FL - 32244,	8	.240 s Mar	9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:25 2020 Page 1	
			10	:GjsENh3AN	7JWL7eGN	MO7rqozizFI-SzUEfapmybehir4rskUkUlXX1?EmZ77XcP_kfYyD?c8	
	L	2-0-0	7-6-0			9-6-0	
		2-0-0	5-6-0			2-0-0	

Scale = 1:18.4



9-6-0 9-6-0											-	
LOADIN TCLL TCDL BCLL	G (psf) 20.0 7.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 YES	CSI. TC BC WB	0.09 0.05 0.04	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 0.00	(loc) 6 6	I/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code FBC2017/TF		Matri		11012(01)	5.00	Ü	ına	TIV C	Weight: 29 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.3

All bearings 7-9-11.

(lb) - Max Horz 2=25(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 9, 8, 10 Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 8, 10

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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions
- shown; Lumber DOL=1.60 plate grip DOL=1.60

 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 9, 8, 10.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

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

6904 Parke East Blvd. Tampa FL 33610

December 3,2020

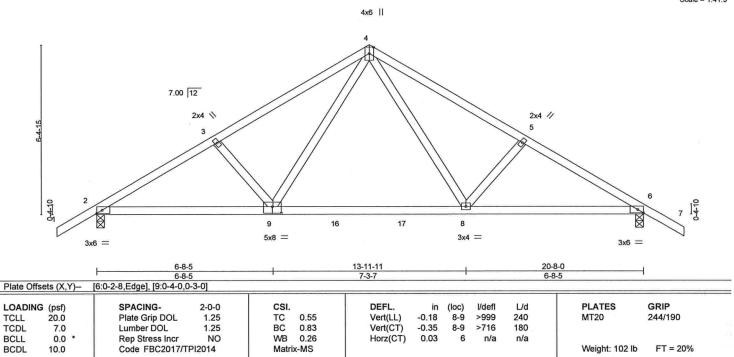
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

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



	Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 52 PLL	
						T2205466	7
	2561777	T01	Common	1	1		- 1
						Job Reference (optional)	
- 55	Builders FirstSource (Jackso	nville, FL), Jacksonville, I	FL - 32244,	8.	240 s Mar	9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:26 2020 Page 1	
	Canada Santa		IC	:GjsENh3AN7JW	L7eGMO7	7rqozizFI-w92cswqOiumYK?e1QR?z1z4bcPOulWyhr3kHB_yD?c7	
	, -1-6-0	4-6-11	10-4-0		6-1-5	20-8-0 22-2-0	
	1-6-0	4-6-11	5-9-5		5-9-5	4-6-11 1-6-0	

Scale = 1:41.9



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

6-9: 2x4 SP M 31

WEBS 2x4 SP No.3

REACTIONS.

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

Max Horz 2=171(LC 11)

Max Uplift 2=-303(LC 12), 6=-302(LC 13) Max Grav 2=1065(LC 1), 6=1065(LC 1)

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

TOP CHORD 2-3=-1683/519, 3-4=-1534/514, 4-5=-1540/515, 5-6=-1691/522 2-9=-429/1498, 8-9=-179/948, 6-8=-368/1415 BOT CHORD

WEBS 4-8=-232/758, 5-8=-264/208, 4-9=-228/740, 3-9=-264/207

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=303, 6=302,
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-7=-54, 9-10=-20, 8-9=-80(F=-60), 8-13=-20



Structural wood sheathing directly applied or 4-0-1 oc purlins.

Rigid ceiling directly applied or 8-10-12 oc bracing.

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

December 3,2020

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 ucliapse 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



1	Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 52 PLL	
	2561777	T01G	Common Supported Gable	1	1		T22054668
- 1						Job Reference (optional)	
	Builders FirstSource (Jackso	nville, FL), Jacksonville,	FL - 32244,	8	.240 s Mar	9 2020 MiTek Industries, Inc. Wed Dec 2	12:33:28 2020 Page 1
				ID:GjsENh3AN7JWL76	GMO7rqo	zizFI-sYAMHcseEW0GZJoPXs1R6O91cCGg	gmTO_IMDOGtyD?c5
	1-6-0		10-4-0			20-8-0	22-2-0
	1-6-0		10-4-0			10-4-0	1-6-0

Scale = 1:41.6

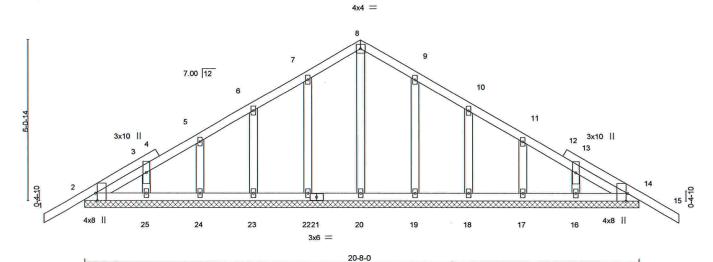


Plate Off	sets (X,Y)-	[2:0-3-8,Edge], [14:0-3-8	Edge]									
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	-0.01	15	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.01	15	n/r	120	MACHINE SA	
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-S	11					Weight: 119 lb	FT = 20%

20-8-0

LUMBER-

OTHERS

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

2x4 SP No.2 2x4 SP No.3 BRACING-

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

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

REACTIONS. All bearings 20-8-0.

(lb) - Max Horz 2=-162(LC 10)

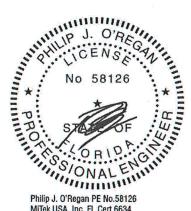
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 22, 23, 24, 25, 19, 18, 17, 16

Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 22, 23, 24, 25, 19, 18, 17, 16

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) 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) 2, 14, 22, 23, 24, 25, 19, 18, 17, 16.



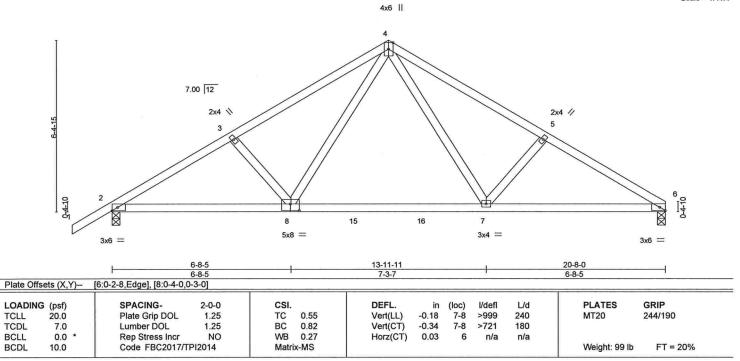
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

December 3,2020



SIMOUE - LOT 52 PLL Job Truss Truss Type Qty Ply T22054669 2561777 T02 Common Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:29 2020 Page 1 ID:GjsENh3AN7JWL7eGMO7rqozizFI-KkklVxtH?p87BTNc5aYgfbi6rcPcVtc7X0zxoJyD?c4 20-8-0 -1-6-0 1-6-0 16-1-5

Scale = 1:41.4



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

6-8: 2x4 SP M 31

WEBS 2x4 SP No.3

REACTIONS.

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

Max Horz 2=163(LC 11)

Max Uplift 6=-263(LC 13), 2=-303(LC 12) Max Grav 6=981(LC 1), 2=1068(LC 1)

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

2-3=-1688/525, 3-4=-1539/520, 4-5=-1556/527, 5-6=-1708/535 TOP CHORD

BOT CHORD 2-8=-445/1490, 7-8=-195/940, 6-7=-409/1434

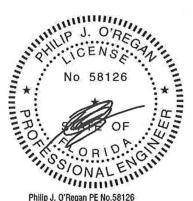
4-7=-241/773, 5-7=-272/213, 4-8=-228/740, 3-8=-265/207 WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-6=-54, 8-12=-20, 7-8=-80(F=-60), 7-9=-20



Structural wood sheathing directly applied or 4-0-1 oc purlins.

Rigid ceiling directly applied or 8-8-14 oc bracing.

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

December 3,2020

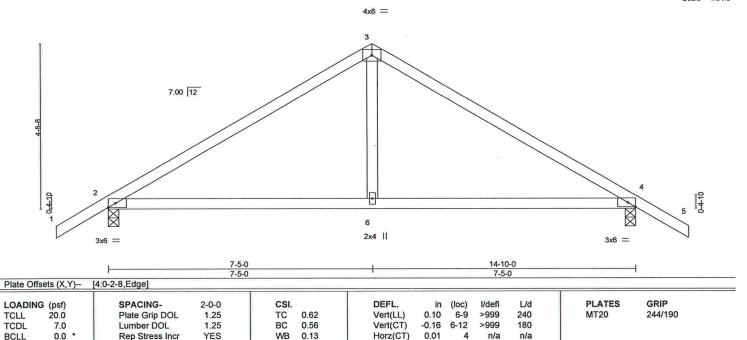
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an inividual building component, not a truss system. Before use, 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 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/TH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Tampa, FL 36610

Job Truss Truss Type Qty SIMQUE - LOT 52 PLL T22054670 2561777 T03 Common Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:30 2020 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:GjsENh3AN7JWL7eGMO7rqozizFI-owl7iHtvm7G_odyofH3vBpFGR0p?DM?GmgiVKlyD?c3 14-10-0 7-5-0 16-4-0

Scale = 1:31.5



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

2x4 SP No.3 WEBS

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

Max Horz 2=129(LC 11)

Max Uplift 2=-177(LC 12), 4=-177(LC 13) Max Grav 2=630(LC 1), 4=630(LC 1)

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

Code FBC2017/TPI2014

TOP CHORD 2-3=-702/212, 3-4=-702/212 2-6=-74/527, 4-6=-74/527

BOT CHORD

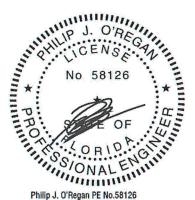
WEBS 3-6=-1/343

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MS

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=177, 4=177.



Weight: 59 lb

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

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

FT = 20%

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

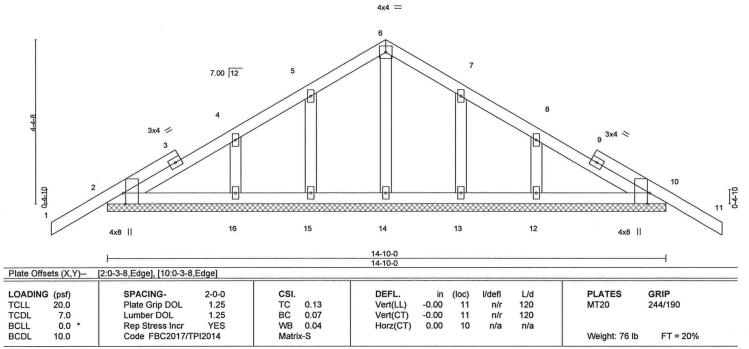
December 3,2020

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 show, 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 amage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Compo Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 52 PLL	
2561777	T03G	Common Supported Gable	1	1		T22054671
		1			Job Reference (optional)	
Builders FirstSource (Jackso	nville, FL), Jacksonville, I	FL - 32244,	8	240 s Mar	9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:31	2020 Page 1
		ID:GjsEN	h3AN7JW	L7eGMO7	rqozizFI-G7sVvduXXROrQmX_D_a8k0nYsQGoyrjQ	KS2tCyD?c2
-1-6-0		7-5-0			14-10-0	16-4-0
1-6-0		7-5-0			7-5-0	1-6-0

Scale = 1:29.5



LUMBER-

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

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 14-10-0.

(lb) - Max Horz 2=120(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 16, 13,

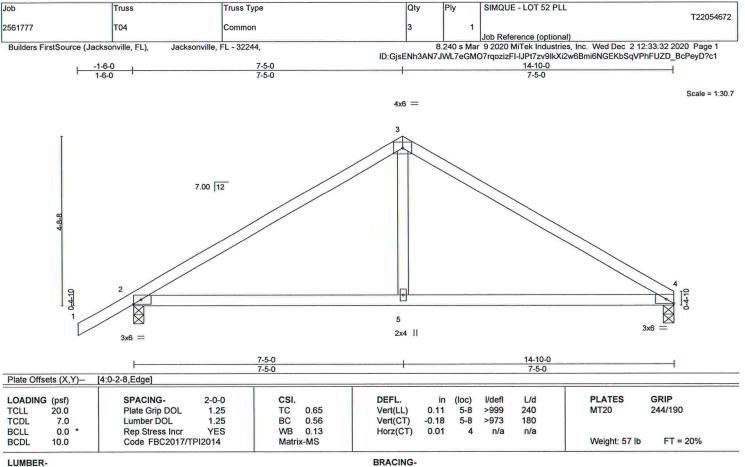


Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

December 3,2020

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TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.2 2x4 SP No.2

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

REACTIONS.

(size) 4=0-3-8, 2=0-3-8 Max Horz 2=121(LC 11)

Max Uplift 4=-137(LC 13), 2=-178(LC 12) Max Grav 4=545(LC 1), 2=634(LC 1)

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

TOP CHORD 2-3=-713/224, 3-4=-712/222

BOT CHORD 2-5=-94/537, 4-5=-94/537

WEBS 3-5=-9/345

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=137, 2=178.



Structural wood sheathing directly applied or 5-0-8 oc purlins.

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

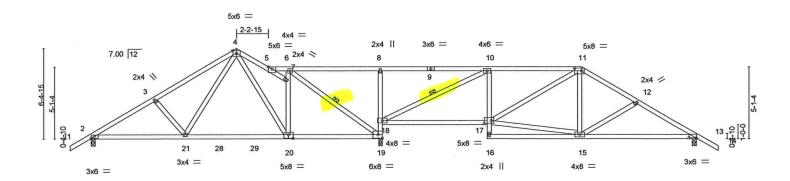
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

December 3,2020



١,	Job	Truss	Truss Type		Qty	Ply	SIMQUE - LOT 52 PLL			
- 1										T22054673
1	2561777	T05	Hip		1	1				
							Job Reference (optional)		
	Builders FirstSource (Jackso	nville, FL), Jac	ksonville, FL - 32244,		8.	240 s Mar	9 2020 MiTek Industrie	s, Inc. Wed De	c 2 12:33:33	2020 Page 1
	•				ID:GjsENh3AN7	JWL7eGM	O7rqozizFI-DVzFKJwn3	2fZg4hNKPdcp	Rtl5DITQcDj	Sex9x4yD?c0
	_r 1-6-0, 4-6-11	10-4-0	, 13-11-11	20-7-8	28-0-8	- 1	34-8-15	38-6-15	42-10-0	44-4-0,
	1-6-0 4-6-11	5-9-5	3-7-11	6-7-13	7-5-0	1	6-8-7	3-10-0	4-3-1	1-6-0

Scale = 1:78.6



	i	6-8-5	13-11-11	Ĩ.	20-6-0	20-7-8	28-0	0-8	-1	34	-8-15	42-10-0	
	-	6-8-5	7-3-6		6-6-5	0-1-8	7-5	-0	, k	6	-8-7	8-1-1	1
Plate Offse	ets (X,Y)-	[11:0-6-0,0-2-4], [13:0-6-0	0,0-0-4], [17:0-6	6-0,0-2-8], [20	0:0-4-0,0-3	3-0]							
LOADING	(psf)	SPACING-	2-0-0	CSI.			DEFL.	in (lo	oc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.72		Vert(LL)	-0.18 20-	21	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.96		Vert(CT)	-0.34 20-	21	>725	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.55		Horz(CT)	0.03	19	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matrix	-MS							Weight: 242 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

WEBS

REACTIONS.

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

2x4 SP No.2 *Except*

2-20: 2x4 SP M 31, 8-19,10-16: 2x4 SP No.3

2x4 SP No.3

(size) 2=0-3-8, 13=0-3-8, 19=0-3-0 Max Horz 2=-171(LC 10)

Max Uplift 2=-296(LC 12), 13=-304(LC 13), 19=-543(LC 13) Max Grav 2=977(LC 1), 13=841(LC 24), 19=1956(LC 1)

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

2-3=-1518/539, 3-4=-1368/533, 5-6=-724/361, 6-8=-50/331, 8-10=-56/352, TOP CHORD

10-11=-887/424, 11-12=-979/387, 12-13=-1175/446, 4-5=-945/481 BOT CHORD

2-21=-419/1360, 20-21=-171/812, 19-20=-205/857, 18-19=-1086/392, 8-18=-394/226,

17-18=-217/901, 10-17=0/337, 13-15=-298/988

3-21=-257/204, 4-21=-228/748, 4-20=-184/285, 7-20=-8/339, 6-7=-73/512, WEBS

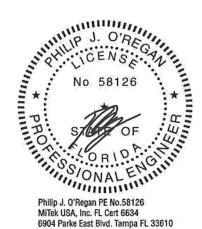
6-19=-1432/422, 10-18=-1364/416, 15-17=-134/758, 11-15=-18/283, 12-15=-265/164

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 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

Vert: 1-4=-54, 5-11=-54, 11-14=-54, 21-22=-20, 20-21=-80(F=-60), 19-20=-20, 17-18=-20, 16-25=-20, 4-5=-54



Structural wood sheathing directly applied or 4-5-10 oc purlins.

6-19, 10-18

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

3-5-6 oc bracing: 18-19.

1 Row at midpt

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

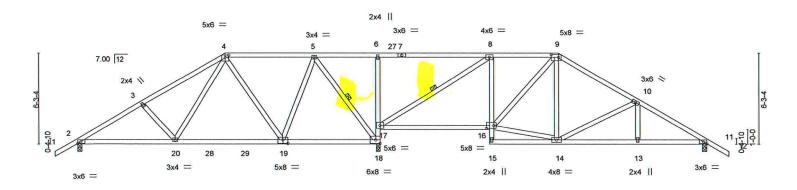
December 3,2020

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Ī	Job		Truss	Truss Type		Qty	Ply	SIMQUE - LO	OT 52 PLL		
				1.00			1				T22054674
	2561777		T06	Hip		1	1				
- [Job Reference	e (optional)		
	Builders FirstS	ource (Jackso	nville, FL), Jack	ksonville, FL - 32244,			8.240 s Mar	9 2020 MiTek	Industries, Inc. Wed	Dec 2 12:33:34	2020 Page 1
						ID:GjsENh3A	N7JWL7eGMC	7rqozizFI-hiXe	YfwPqMnPHEGZu78	BrMfPypd8Q94Us	glgiUWyD?c?
	1-6-0	4-6-11	10-1-1	16-1-5	20-7-8	28-0-8	î	32-8-15	38-1-6	42-10-0	44-4-0
	1-6-0	4-6-11	5-6-6	6-0-4	4-6-3	7-5-0		4-8-7	5-4-7	4-8-10	1-6-0

Scale = 1:75.9



	. 6	6-8-5	13-11-11	20	-6-0 20-7-8	28-0-8	3 ,	32-8-15	ï	38-1-6	42-1	0-0
		6-8-5	7-3-6	6-	6-5 0-1-8	7-5-0	,	4-8-7		5-4-7	4-8-	10
Plate Offse	ets (X,Y)-	[4:0-3-0,0-1-12], [9	9:0-6-0,0-2-4], [11:0-2	-8,Edge], [16	:0-6-0,0-2-8], [19	9:0-4-0,0-3-0]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (lo	c) I/defl	L/d		PLATES	GRIP
TCLL	20.0	Plate Grip I	DOL 1.25	TC	0.59	Vert(LL)	-0.16 19-2	0 >999	240		MT20	244/190
TCDL	7.0	Lumber DC	L 1.25	ВС	0.72	Vert(CT)	-0.30 19-2	0 >811	180			
BCLL	0.0 *	Rep Stress	Incr NO	WB	0.48	Horz(CT)	0.02	8 n/a	n/a			
BCDL	10.0	Code FBC	2017/TPI2014	Matri	x-MS						Weight: 249 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

2-19: 2x4 SP M 31, 6-18,8-15: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 11=0-3-8, 18=0-3-0

Max Horz 2=-168(LC 10)

Max Uplift 2=-348(LC 12), 11=-326(LC 13), 18=-496(LC 9) Max Grav 2=998(LC 23), 11=855(LC 24), 18=1928(LC 1)

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

TOP CHORD 2-3=-1557/588, 3-4=-1407/582, 4-5=-681/406, 5-6=-31/295, 6-8=-27/299, 8-9=-712/422,

9-10=-874/405, 10-11=-1247/478 2-20=-500/1321, 19-20=-264/819, 18-19=-171/465, 17-18=-1021/340, 6-17=-344/198,

16-17=-172/730, 8-16=0/349, 13-14=-324/1035, 11-13=-324/1035 WEBS 3-20=-265/199, 4-20=-220/744, 4-19=-280/111, 5-19=-140/718, 5-18=-1099/364,

8-17=-1094/300, 14-16=-107/682, 10-14=-434/211

8-17=-1094/300, 14-16=-107/682, 10-14=-434/21

NOTES-

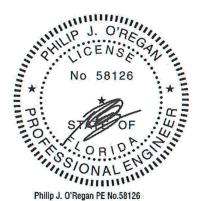
BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=348, 11=326, 18=496.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-9=-54, 9-12=-54, 20-21=-20, 19-20=-80(F=-60), 18-19=-20, 16-17=-20, 15-24=-20



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

5-18, 8-17

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

4-8-0 oc bracing: 17-18

6-0-0 oc bracing: 14-15.

1 Row at midpt

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

December 3,2020

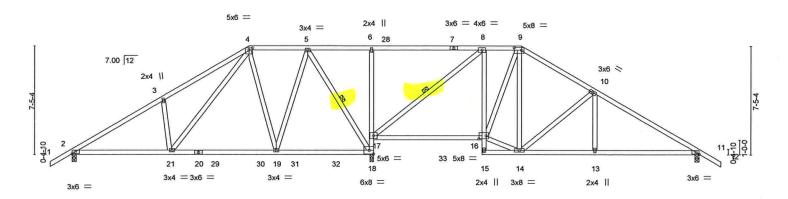
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	Job		Truss		Truss Type		QI	y	Ply	SIMQUE - LOT 52 PLL		
	2561777		T07		Hip		1		1			T22054675
ı										Job Reference (optional)		
	Builders FirstSour	rce (Jackson	nville, FL),	Jacksonville	FL - 32244,			8.	240 s Mar	9 2020 MiTek Industries,	Inc. Wed Dec 2 12:3	3:36 2020 Page 1
							ID:GjsENh	3AN7J	NL7eGMC	7rqozizFI-d4fOzLygMz17	XYPy?YAJR4VI4Rotd	yQ98c9pXPyD?bz
	r1-6-0	6-3-1	i i	12-1-1	16-1-5	20-7-8	28-0-8		30-8	3-15 35-9-0	42-10-0	44-4-0,
	1-6-0	6-3-1	I.	5-10-0	4-0-4	4-6-3	7-5-0		2-8	3-7 5-0-1	7-1-0	1-6-0

Scale = 1:75.9



			3-11-11		-6-0 20-7-8	28-0-8		30-8-1	_	35-9-0	42-10-0		
Plate Offse		-8-5 [4:0-3-0,0-1-12], [9:0-6-0	7-3-6		6-5 0-1-8	7-5-0		2-8-7		5-0-1	7-1-0		
Plate Olise	EIS (A, I)-	[4.0-3-0,0-1-12], [9.0-6-0	7,0-2-4], [11.0-2-	o,Eugej, [16	.0-6-0,0-2-6]								
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	0.61	Vert(LL)	-0.15 19	-21 >	999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.29 19	-21 >	840	180			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.02	18	n/a	n/a			
BCDL	10.0	Code FBC2017/7	PI2014	Matri	x-MS						Weight: 263 lb	FT = 20%	

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* BOT CHORD

6-18,8-15: 2x4 SP No.3, 18-20: 2x4 SP M 31

2x4 SP No.3

WEBS

REACTIONS. (size) 2=0-3-8, 11=0-3-8, 18=0-3-0

Max Horz 2=-197(LC 10)

Max Uplift 2=-345(LC 12), 11=-334(LC 13), 18=-448(LC 9) Max Grav 2=986(LC 23), 11=845(LC 24), 18=1952(LC 1)

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

TOP CHORD 2-3=-1475/568, 3-4=-1443/688, 4-5=-611/400, 5-6=-33/320, 6-8=-28/324, 8-9=-557/404,

9-10=-697/406, 10-11=-1130/464

BOT CHORD 2-21=-462/1304, 19-21=-198/679, 18-19=-131/375, 17-18=-1056/344, 6-17=-369/212,

16-17=-106/569, 8-16=0/377, 13-14=-278/906, 11-13=-278/906

WEBS 3-21=-351/263, 4-21=-383/963, 4-19=-298/136, 5-19=-181/864, 5-18=-1041/336,

8-17=-972/243, 14-16=-55/586, 10-14=-520/252, 10-13=0/276

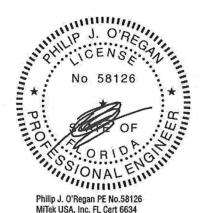
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=345, 11=334, 18=448.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-9=-54, 9-12=-54, 21-22=-20, 19-21=-80(F=-60), 18-19=-20, 16-17=-20, 15-25=-20



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

5-18, 8-17

Rigid ceiling directly applied or 4-8-2 oc bracing.

1 Row at midpt

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

December 3,2020

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 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, 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



28-8-15 8-1-7 35-9-0

42-10-0 7-1-0

Structural wood sheathing directly applied or 4-7-13 oc purlins.

6-17, 8-16

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

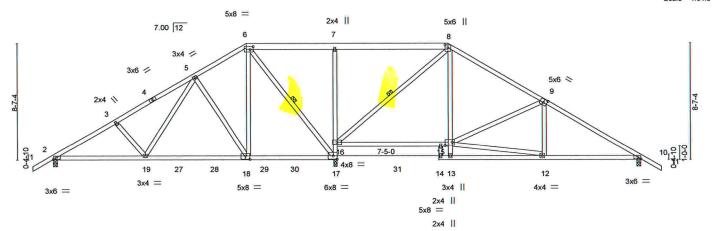
4-1-0 oc bracing: 16-17

6-0-0 oc bracing: 12-13. 10-0-0 oc bracing: 13-15

1 Row at midpt

Scale = 1:81.5

44-4-0



	1	6-8-5	14-1-1	í	20-6-0	20-7-8	28-0-	3	28,8-15	3	35-9-0	42-10-0	
		6-8-5	7-4-12		6-4-15	0-1-8	7-5-0		048-7		7-0-1	7-1-0	1
Plate Offs	ets (X,Y)-	[6:0-2-12,0-2-12], [8:0-2-	9,0-2-8], [9:0-3-0	0,0-3-0], [10	0-2-8,Ed	lge], [15:0	-6-4,0-2-12]	, [18:0-4	1-0,0-3-0)]		*	
LOADING		SPACING-	2-0-0	CSI.		=	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0 7.0	Plate Grip DOL Lumber DOL	1.25 1.25	TC BC	0.57 0.79		Vert(LL) Vert(CT)		15-16 15-16	>999 >866	240 180	MT20	244/190
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code FBC2017/T	NO Pl2014	WB Matri	0.62 k-MS		Horz(CT)	0.02	17	n/a	n/a	Weight: 272 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

6-8: 2x6 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

2-18: 2x4 SP M 31, 7-17,8-13: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 10=0-3-8, 17=0-3-0

Max Horz 2=-226(LC 10)

Max Uplift 2=-329(LC 12), 10=-319(LC 13), 17=-389(LC 9) Max Grav 2=968(LC 23), 10=833(LC 20), 17=2010(LC 1)

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

TOP CHORD 2-3=-1498/611, 3-5=-1348/606, 5-6=-644/437, 6-7=-49/366, 7-8=-38/369, 8-9=-666/368,

9-10=-1115/443

BOT CHORD 2-19=-505/1376, 18-19=-270/840, 17-18=-142/504, 16-17=-1157/371, 7-16=-493/277,

15-16=-41/481, 8-15=-97/621, 10-12=-265/896

WEBS 3-19=-254/193, 5-19=-218/731, 5-18=-628/310, 6-18=-306/1064, 6-17=-1179/269,

8-16=-910/179, 12-15=-251/922, 9-15=-522/275

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=329, 10=319, 17=389.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-6=-54, 6-8=-54, 8-11=-54, 19-21=-20, 18-19=-80(F=-60), 17-18=-20, 15-16=-20, 13-14=-20, 13-24=-20



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

December 3,2020

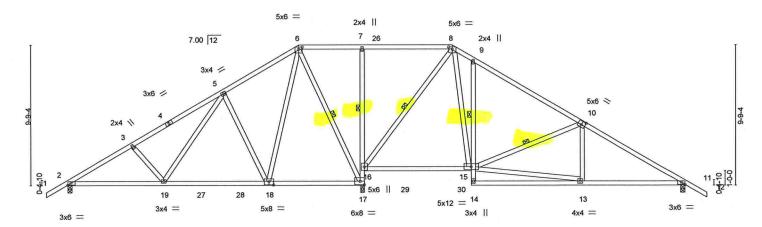
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



J	lob		Truss		Truss Type			Qty	Ply	SIMQUE - LOT 52 PLL		
					975							T22054677
2	561777		T09		Hip			1	1			
										Job Reference (optional)		
	Builders FirstSor	urce (Jackso	nville, FL),	Jacksonville	FL - 32244,			8	240 s Ma	9 2020 MiTek Industries,	Inc. Wed Dec 2 12:33:	38 2020 Page 1
		•					ID:GjsENh	3AN7JWI	7eGMO7	rgozizFI-ZTn8N0_wuaHrmr	ZK7zCnWVaeaEUE5rm	SbwewclyD?bx
	_r 1-6-0	4-6-11	ï	10-10-6	16-1-1	20-7-8	26-8-	15	28-0-8	35-9-0	42-10-0	44-4-0,
	1.6.0	4-6-11		6-3-11	5-2-11	4-6-7	6-1-	7	1-3-9	7-8-8	7-1-0	1-6-0

Scale = 1:77.1



	1	6-8-5	13-11-11	20-6-0	20-7-8 28-			35-9-0	42-10-0		
	į.	6-8-5	7-3-6	6-6-5	0-1'-8 7-5	-0 '		7-8-8	7-1-0	- E	
Plate Offse	ets (X,Y)-	[6:0-3-0,0-1-12], [8:0-3-0	,0-1-12], [10:0-	3-0,0-3-0], [11:0-2-8,E	dge], [18:0-4-0,0-3-0)]					
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 0.61	Vert(LL)	-0.17 18-19	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC 0.79	Vert(CT)	-0.32 18-19	>776	180			
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.66	Horz(CT)	0.03 11	n/a	n/a			
BCDL	10.0	Code FBC2017/7	PI2014	Matrix-MS					Weight: 278 lb	FT = 20%	

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* BOT CHORD

2-18: 2x4 SP M 31, 7-17,9-14: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 11=0-3-8, 17=0-3-0

Max Horz 2=-254(LC 10)

Max Uplift 2=-338(LC 12), 11=-352(LC 13), 17=-423(LC 12) Max Grav 2=965(LC 23), 11=821(LC 24), 17=2019(LC 1)

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

TOP CHORD 2-3=-1496/629, 3-5=-1344/625, 5-6=-676/477, 6-7=-58/417, 7-8=-49/419, 8-9=-652/532, 9-10=-574/405, 10-11=-1099/500

BOT CHORD 2-19=-545/1335, 18-19=-290/746, 16-17=-1083/316, 7-16=-347/195, 15-16=-1/271,

9-15=-351/251, 11-13=-315/884

 $3-19 = -265/203, \, 5-19 = -230/770, \, 5-18 = -677/348, \, 6-18 = -363/1089, \, 6-17 = -1112/325, \, 6-18 = -363/1089, \, 6-17 = -1112/325, \, 6-18 = -363/1089, \, 6-17 = -1112/325, \, 6-18 = -363/1089, \, 6-17 = -1112/325, \, 6-18 = -363/1089, \, 6-17 = -1112/325, \, 6-18 = -363/1089, \, 6-17 = -1112/325, \, 6-18 = -363/1089, \, 6-17 = -1112/325, \, 6-18 = -363/1089, \, 6-17 = -1112/325, \, 6-18 = -363/1089, \, 6-17 = -1112/325, \, 6-18 = -363/1089, \, 6-17 = -1112/325, \, 6-18 = -363/1089, \, 6-17 = -1112/325, \, 6-18 = -363/1089, \, 6-17 = -1112/325, \, 6-18 = -363/1089, \, 6-17 = -1112/325, \, 6-18 = -363/1089, \, 6-17 = -1112/325, \, 6-18 = -363/1089, \, 6-17 = -1112/325, \, 6-18 = -363/1089, \, 6-17 = -1112/325, \, 6-18 = -363/1089, \, 6-17 = -1112/325, \, 6-18 = -363/1089, \, 6-17 = -1112/325, \, 6-18 = -363/1089, \, 6-17 = -1112/325, \, 6-18 = -363/1089, \, 6-18 =$ WEBS

8-16=-811/176, 8-15=-352/903, 13-15=-307/888, 10-15=-565/275

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=338, 11=352, 17=423.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-6=-54, 6-8=-54, 8-12=-54, 19-20=-20, 18-19=-80(F=-60), 17-18=-20, 15-16=-20, 14-23=-20



Structural wood sheathing directly applied or 4-7-8 oc purlins.

7-16, 9-15

6-17, 8-16, 10-15

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

4-1-14 oc bracing: 16-17

6-0-0 oc bracing: 13-14.

1 Row at midpt

1 Row at midpt

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

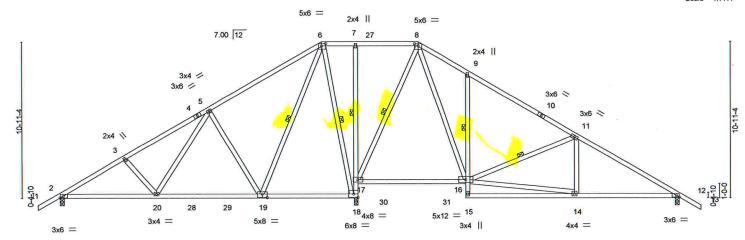
December 3,2020

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Job Truss Truss Type Qty SIMQUE - LOT 52 PLL T22054678 2561777 T10 Hip Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:40 2020 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:GjsENh3AN7JWL7eGMO7rqozizFI-Wsuvoi?APCXZ?9jjENFFbwfyq29eZkcl3E71gAyD?bv 18-1-1 7-9-1 28-0-8 3-3-9 35-9-0 42-10-0

Scale = 1:77.1



l.	6-8-5	7-3-6		6-6-5	0-1-8	7-5-0	0	-		7-8-8	7-1-0	1
sets (X,Y)-	[6:0-3-8,0-2-0], [8:0-3-0,0	0-1-12], [12:0-2	-8,Edge], [19	:0-4-0,0-3-	0]							
G (psf)	SPACING-	2-0-0	CSI.		i	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
20.0	Plate Grip DOL	1.25	TC	0.69	,	Vert(LL)	-0.17	16-17	>999	240	MT20	244/190
7.0	Lumber DOL	1.25	BC	0.86	,	Vert(CT)	-0.31	19-20	>787	180		
0.0 *	Rep Stress Incr	NO	WB	0.76	1	Horz(CT)	0.03	12	n/a	n/a		
10.0	Code FBC2017/T	PI2014	Matri	x-MS							Weight: 285 lb	FT = 20%
	G (psf) 20.0 7.0 0.0 *	sets (X,Y)— [6:0-3-8,0-2-0], [8:0-3-0,t] G (psf) SPACING- 20.0 Plate Grip DOL 7.0 Lumber DOL 0.0 * Rep Stress Incr	sets (X,Y)- [6:0-3-8,0-2-0], [8:0-3-0,0-1-12], [12:0-2 G (psf) SPACING- 2-0-0 20.0 Plate Grip DOL 1.25 7.0 Lumber DOL 1.25 0.0 Rep Stress Incr NO	sets (X,Y)- [6:0-3-8,0-2-0], [8:0-3-0,0-1-12], [12:0-2-8,Edge], [19 G (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.25 TC 7.0 Lumber DOL 1.25 BC 0.0 Rep Stress Incr NO WB	sets (X,Y)- [6:0-3-8,0-2-0], [8:0-3-0,0-1-12], [12:0-2-8,Edge], [19:0-4-0,0-3-1] G (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.25 TC 0.69 7.0 Lumber DOL 1.25 BC 0.86 0.0 Rep Stress Incr NO WB 0.76	sets (X,Y)- [6:0-3-8,0-2-0], [8:0-3-0,0-1-12], [12:0-2-8,Edge], [19:0-4-0,0-3-0] G (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.25 TC 0.69 7.0 Lumber DOL 1.25 BC 0.86 0.0 Rep Stress Incr NO WB 0.76	sets (X,Y)- [6:0-3-8,0-2-0], [8:0-3-0,0-1-12], [12:0-2-8,Edge], [19:0-4-0,0-3-0] G (psf) SPACING- 2-0-0 CSI. DEFL. 20.0 Plate Grip DOL 1.25 TC 0.69 Vert(LL) 7.0 Lumber DOL 1.25 BC 0.86 Vert(CT) 0.0 * Rep Stress Incr NO WB 0.76 Horz(CT)	sets (X,Y)- [6:0-3-8,0-2-0], [8:0-3-0,0-1-12], [12:0-2-8,Edge], [19:0-4-0,0-3-0] DEFL. in G (psf) SPACING- 2-0-0 CSI. DEFL. in 20.0 Plate Grip DOL 1.25 TC 0.69 Vert(LL) -0.17 7.0 Lumber DOL 1.25 BC 0.86 Vert(CT) -0.31 0.0 Rep Stress Incr NO WB 0.76 Horz(CT) 0.03	sets (X,Y)— [6:0-3-8,0-2-0], [8:0-3-0,0-1-12], [12:0-2-8,Edge], [19:0-4-0,0-3-0] DEFL. in (loc) G (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) 20.0 Plate Grip DOL 1.25 TC 0.69 Vert(LL) -0.17 16-17 7.0 Lumber DOL 1.25 BC 0.86 Vert(CT) -0.31 19-20 0.0 * Rep Stress Incr NO WB 0.76 Horz(CT) 0.03 12	sets (X,Y)— [6:0-3-8,0-2-0], [8:0-3-0,0-1-12], [12:0-2-8,Edge], [19:0-4-0,0-3-0] G (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl 20.0 Plate Grip DOL 1.25 TC 0.69 Vert(LL) -0.17 16-17 >999 7.0 Lumber DOL 1.25 BC 0.86 Vert(CT) -0.31 19-20 >787 0.0 * Rep Stress Incr NO WB 0.76 Horz(CT) 0.03 12 n/a	sets (X,Y)— [6:0-3-8,0-2-0], [8:0-3-0,0-1-12], [12:0-2-8,Edge], [19:0-4-0,0-3-0] DEFL. in (loc) l/defl L/d 20.0 Plate Grip DOL 1.25 TC 0.69 Vert(LL) -0.17 16-17 >999 240 7.0 Lumber DOL 1.25 BC 0.86 Vert(CT) -0.31 19-20 >787 180 0.0 * Rep Stress Incr NO WB 0.76 Horz(CT) 0.03 12 n/a n/a	Sets (X,Y)— [6:0-3-8,0-2-0], [8:0-3-0,0-1-12], [12:0-2-8, Edge], [19:0-4-0,0-3-0] G (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES 20.0 Plate Grip DOL 1.25 TC 0.69 Vert(LL) -0.17 16-17 >999 240 MT20 7.0 Lumber DOL 1.25 BC 0.86 Vert(CT) -0.31 19-20 >787 180 0.0 * Rep Stress Incr NO WB 0.76 Horz(CT) 0.03 12 n/a n/a

BRACING-TOP CHORD

WEBS

BOT CHORD

28-0-8

35-9-0

1 Row at midpt

1 Row at midpt

Structural wood sheathing directly applied or 4-7-10 oc purlins.

7-17, 9-16

6-19, 6-18, 8-17, 11-16

Rigid ceiling directly applied or 4-0-3 oc bracing. Except:

20-7-8

20-6-0

LUMBER-

TOP CHORD 2x4 SP No.2

6-8-5

2x4 SP No.2 *Except* BOT CHORD

2-19: 2x4 SP M 31, 7-18,9-15: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 18=0-3-0

Max Horz 2=-283(LC 10)

Max Uplift 2=-337(LC 12), 12=-360(LC 13), 18=-417(LC 12) Max Grav 2=956(LC 23), 12=809(LC 24), 18=2048(LC 1)

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

TOP CHORD 2-3=-1461/636, 3-5=-1318/635, 5-6=-681/505, 6-7=-71/448, 7-8=-62/449, 8-9=-664/565,

9-11=-555/424, 11-12=-1075/517

BOT CHORD 2-20=-544/1286, 19-20=-342/787, 17-18=-1023/234, 9-16=-354/263, 12-14=-328/863 **WEBS**

13-11-11

5-20=-193/711, 5-19=-739/388, 6-19=-400/1155, 6-18=-1187/374, 8-17=-796/180,

8-16=-382/940, 14-16=-319/875, 11-16=-563/274, 11-14=0/253

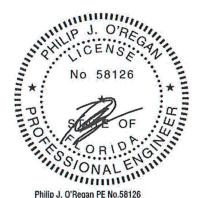
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=337, 12=360, 18=417.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-6=-54, 6-8=-54, 8-13=-54, 20-21=-20, 19-20=-80(F=-60), 18-19=-20, 16-17=-20, 15-24=-20



42-10-0

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

December 3,2020

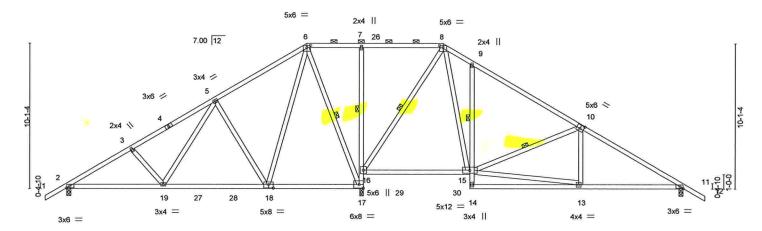
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job			Truss		Truss Type			Qty	Ply	SIMQUE - LOT 52 PLL		
												T22054679
25617	777		T11		Piggyback Base			1	1			
										Job Reference (optional)		
Buil	ders FirstSou	rce (Jackso	nville, FL),	Jacksonville	FL - 32244,			8	240 s Mar	9 2020 MiTek Industries,	nc. Wed Dec 2 12:33:	41 2020 Page 1
							ID:GjsEN	h3AN7JV	/L7eGMO	7rqozizFI2SH020oAVfQd	JIvo5mU87C8nSWcIBa	uHutaCcyD?bu
	_T 1-6-0	4-6-11	-1	10-4-0	16-8-0	20-7-8	26-2-0) /2	8-0-8	35-9-0	42-10-0	44-4-0
	1-6-0	4-6-11		5-9-5	6-4-0	3-11-8	5-6-8	1.	-10-8	7-8-8	7-1-0	1-6-0

Scale = 1:77.1



	1	6-8-5	13-11-11	2	0-6-0	20-7-8 28-0	-8		35-9-0	42-10-0	
	1	6-8-5	7-3-6	1	3-6-5	0-1-8 7-5-	0		7-8-8	7-1-0	1.
Plate Offs	ets (X,Y)-	[6:0-3-0,0-1-12], [8:0-3-	0,0-1-12], [10:0-	3-0,0-3-0], [1	1:0-2-8,Edg	e], [18:0-4-0,0-3-0]					
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.16 18-1	9 >999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.31 18-1	9 >792	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.03 1	1 n/a	n/a		
BCDL	10.0	Code FBC2017/	TPI2014	Matrix	c-MS					Weight: 279 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

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

2-18: 2x4 SP M 31, 7-17,9-14: 2x4 SP No.3

WEBS 2x4 SP No.3

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-8-15 oc purlins,

except

2-0-0 oc purlins (10-0-0 max.): 6-8.

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

4-1-5 oc bracing: 16-17 6-0-0 oc bracing: 13-14.

1 Row at midpt

7-16, 9-15 WEBS 1 Row at midpt 6-17, 8-16, 10-15

REACTIONS.

BOT CHORD

(size) 2=0-3-8, 11=0-3-8, 17=0-3-0

Max Horz 2=-263(LC 10)

Max Uplift 2=-339(LC 12), 11=-354(LC 13), 17=-420(LC 12) Max Grav 2=963(LC 23), 11=818(LC 24), 17=2026(LC 1)

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

TOP CHORD 2-3=-1481/627, 3-5=-1335/625, 5-6=-671/478, 6-7=-63/425, 7-8=-54/427, 8-9=-653/538,

9-10=-567/411, 10-11=-1093/506 2-19=-540/1313, 18-19=-321/793, 16-17=-1059/294, 7-16=-313/180, 9-15=-342/249,

11-13=-319/879 **WEBS**

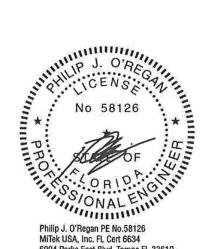
5-19=-205/726, 5-18=-699/357, 6-18=-360/1083, 6-17=-1122/335, 8-16=-800/175, 8-15=-354/902, 13-15=-312/888, 10-15=-565/275, 10-13=0/250

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=339, 11=354, 17=420.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 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: 1-6=-54, 6-8=-54, 8-12=-54, 19-20=-20, 18-19=-80(F=-60), 17-18=-20, 15-16=-20, 14-23=-20



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December 3,2020

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SIMQUE - LOT 52 PLL Job Truss Truss Type Qty T22054680 2561777 T12 Roof Special Girder Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:44 2020 Page 1

ID:GjsENh3AN7JWL7eGMO7rqozizFI-Od8Qe42hTQ1?Um1UTDJBmmqaafXeVW1K_s5EpxyD?br 35-10-0 39-0-4 42-10-0 26-1-7 31-0-9 4-9-7 3-9-12

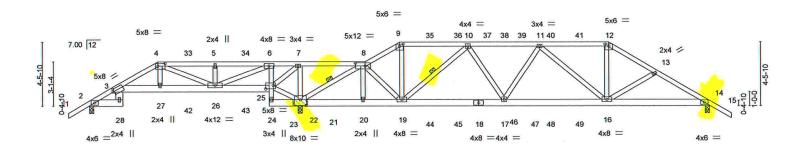
Structural wood sheathing directly applied or 2-6-8 oc purlins.

8-22, 10-19

Rigid ceiling directly applied or 4-5-13 oc bracing.

1 Row at midpt

Scale = 1:77.1



	2-3-8	4-8-0 8-8-0 2-4-8 4-0-0	12-4-8 3-8-8				-7-0 3-0			35-10-0 7-3-0	42-10-0 7-0-0	
Plate Offs	ets (X,Y)-	[3:0-0-15,0-2-0], [4:0-6-0,						-0,0-4-	12], [25:0		7-0-0	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.90	Vert(LL)	0.28	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.32	16-17	>999	180	-	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.11	14	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matr	ix-MS						Weight: 269 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

2x4 SP No.2

BOT CHORD 2x6 SP No.2 *Except* 6-24: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 22=(0-3-8 + bearing block) (req. 0-4-5), 14=0-3-8

3-8-8

Max Horz 2=-123(LC 6)

Max Uplift 2=-120(LC 8), 22=-1936(LC 4), 14=-1227(LC 4)

Max Grav 2=387(LC 19), 22=3641(LC 1), 14=1998(LC 20)

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

3-29=-296/102, 3-4=-475/100, 4-5=-457/546, 5-6=-457/546, 6-7=-1358/2569, TOP CHORD

7-8=-1140/2301, 8-9=-2272/1776, 9-10=-2000/1561, 10-11=-3518/2497,

11-12=-2903/2017, 12-13=-3346/2280, 13-14=-3509/2290

3-28=-48/253, 3-27=-63/458, 26-27=-73/496, 25-26=-2536/1365, 6-25=-1083/562, **BOT CHORD**

22-24=-258/129, 20-22=-1034/1121, 19-20=-1039/1129, 17-19=-2239/3231,

16-17=-2396/3542, 14-16=-1927/2992

WEBS 4-27=-109/381, 4-26=-1014/520, 5-26=-302/199, 6-26=-1053/2180, 22-25=-2351/1214, 7-25=-342/279, 8-22=-3934/2397, 8-19=-712/1310, 9-19=-672/801, 10-19=-1647/1043,

10-17=-297/635, 11-16=-884/657, 12-16=-830/1227

- 1) 2x6 SP No.2 bearing block 12" long at jt. 22 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SP No.2.
- Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=120, 22=1936, 14=1227.



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

December 3,2020

Continued on page 2

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 52 PLL
2561777	T12	Roof Special Girder	1	1	T22054680
250177	=	Trool openial officer	<u> </u>		Job Reference (optional)

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:44 2020 Page 2 ID:GjsENh3AN7JWL7eGMO7rqozizFI-Od8Qe42hTQ1?Um1UTDJBmmqaafXeVW1K_s5EpxyD?br

NOTES.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 96 lb down and 67 lb up at 4-8-0, 96 lb down and 66 lb up at 6-8-12, 96 lb down and 66 lb up at 10-8-12, 100 lb down and 81 lb up at 12-8-12, 128 lb down and 128 lb up at 21-4-0, 127 lb down and 126 lb up at 23-4-12, 127 lb down and 126 lb up at 23-4-12, 127 lb down and 126 lb up at 22-9-9-4, 127 lb down and 126 lb up at 31-9-4, and 127 lb down and 126 lb up at 23-9-10-0 on top chord, and 142 lb down and 90 lb up at 4-8-0, 52 lb down and 31 lb up at 6-8-12, 52 lb down and 31 lb up at 31-9-4, 36 lb down and 31 lb up at 31-9-4, 36 lb down and 68 lb up at 21-4-0, 86 lb down and 68 lb up at 23-4-12, 86 lb down and 68 lb up at 23-4-12, 86 lb down and 68 lb up at 29-9-4, 86 lb down and 68 lb up at 31-9-4, and 86 lb down and 68 lb up at 33-9-4, and 336 lb down and 306 lb up at 35-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 3-4=-54, 4-8=-54, 8-9=-54, 9-12=-54, 12-15=-54, 2-28=-20, 3-25=-20, 14-24=-20

Concentrated Loads (lb)

Vert: 4=-40(B) 9=-109(B) 12=-182(B) 6=-50(B) 27=-122(B) 26=-46(B) 5=-40(B) 25=-33(B) 19=-336(B) 17=-64(B) 16=-336(B) 33=-40(B) 34=-40(B) 35=-109(B) 36=-109(B) 37=-109(B) 38=-109(B) 39=-109(B) 40=-109(B) 41=-109(B) 42=-46(B) 43=-46(B) 44=-64(B) 45=-64(B) 46=-64(B) 47=-64(B) 48=-64(B) 49=-64(B)

SIMQUE - LOT 52 PLL Job Truss Truss Type Qty Ply T22054681 T13 2561777 Roof Special Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:46 2020 Page 1 ID:GjsENh3AN7JWL7eGMO7rqozizFI-K?GA3l4x?2l·ljj4AtbeMfrBv_mTJGzUfdRAaLuqyD?bp -0 , 31-1-0 , 33-10-0 , 37-9-0 , 42-10-0 44-4-0, 33-10-0 31-1-0

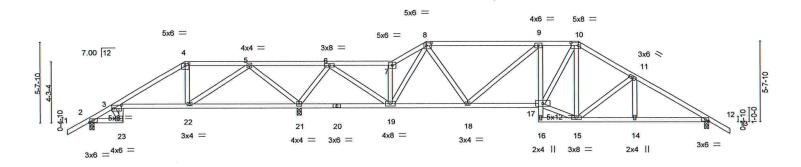
2-9-0

3-11-0

Structural wood sheathing directly applied or 4-6-8 oc purlins.

Rigid ceiling directly applied or 5-10-0 oc bracing.

Scale = 1:77.2



	2-3-8	6-8-0	14-6-4		21-0-0	26-1-7		31-1	-0	33-10-0	37-9-0	42-10-	0
	2-3-8	4-4-8	7-10-4	"	6-5-12	5-1-6	į	4-11-	10	2-9-0	3-11-0	5-1-0	!
Plate Offse	ts (X,Y)-	[3:0-6-8,0-2-11], [4:0-3-0,	0-1-12], [8:0-4	-0,0-2-4], [10	:0-6-0,0-2-4]	[12:0-2-8,Edge]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLA	TES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	0.12	3-22	>999	240	MT	20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.16	3-22	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.09	12	n/a	n/a			
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MS						Wei	ght: 235 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

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

3-23,9-16: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 12=0-3-8, 21=0-3-8

Max Horz 2=152(LC 11)

Max Uplift 2=-90(LC 12), 12=-265(LC 13), 21=-583(LC 12) Max Grav 2=268(LC 23), 12=963(LC 24), 21=2144(LC 1)

TOP CHORD

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

3-4=-116/255, 5-6=-548/1798, 6-7=-534/485, 7-8=-615/566, 8-9=-964/422, 9-10=-1247/502, 10-11=-1124/431, 11-12=-1428/468

21-22=-886/321, 19-21=-961/396, 18-19=-280/727, 17-18=-353/1278, 14-15=-312/1182. **BOT CHORD**

12-14=-312/1182

WEBS

4-22=-333/162, 5-22=-257/893, 5-21=-1206/459, 6-21=-1467/532, 6-19=-458/1570, 7-19=-301/297, 8-19=-585/186, 8-18=-82/465, 9-18=-447/160, 15-17=-186/928,

10-17=-262/651, 11-15=-374/180

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 12=265, 21=583.



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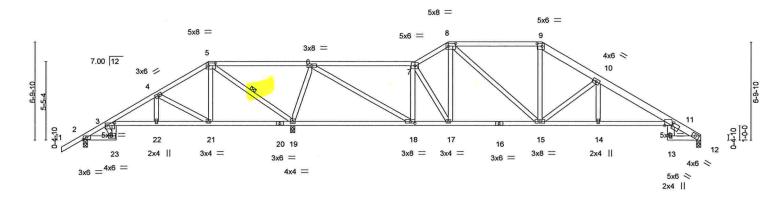
December 3,2020

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



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 52 PLL	
						T22054682
2561777	T14	Roof Special	1	1		· · · · · · · · · · · · · · · · · · ·
					Job Reference (optional)	
Builders FirstSource (Jackso	onville, FL), Jacksonville, f	L - 32244,	8.3	240 s Mar	9 2020 MiTek Industries, Inc. V	Wed Dec 2 12:33:48 2020 Page 1
-			ID:GjsENh3AN7JWL7e	GMO7rqo	zizFI-HONwUR5BXfYQzOKFi30	O7wc G8GuwRNEwuU3SyiyD?bn
₁ 1-6-0 ₁ 2-3-8 ₁ 5-1	1-0 8-8-0	15-10-0 , 23-0-0	25-4-0	31-10	-0 , 35-9-0 ,	40-6-8 ,42-10-0 44-4-0,
400 000 00	0.7.0	700	0.40	000	0.44.0	400 000 400

Scale = 1:76.9



	2-3-8	5-1-0 8-8-0	14-6-4		-0-0 25-4-1			35-9-0		42-10-0
	2-3-8	2-9-8 3-7-0	5-10-4	' 8-	5-12 2-4-0	6-6	5-0	3-11-0	4-9-8	2-3-8
Plate Offs	ets (X,Y)-	[3:0-6-8,0-2-3], [5:0-6-0,0	0-2-4], [8:0-6-0,0	-2-4], [9:0-4-0,0-2-4], [11:0-0-2,0-2-12], [11	:0-6-4,0-0-4],	18:0-3-8,	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 0.92	Vert(LL)	-0.16 11-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.77	Vert(CT)	-0.31 11-14	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.15 12	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matrix-MS					Weight: 245 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

1 Row at midpt

WEBS

LUMBER-

2x4 SP No.2 *Except* TOP CHORD

9-12: 2x6 SP M 26

BOT CHORD 2x4 SP No.2 *Except*

3-23: 2x4 SP No.3, 11-13: 2x6 SP No.2

WEBS 2x4 SP No.3

REACTIONS. (size) 12=0-3-8, 2=0-3-8, 19=0-3-8

Max Horz 2=174(LC 11)

Max Uplift 12=-233(LC 13), 2=-69(LC 12), 19=-632(LC 12) Max Grav 12=826(LC 24), 2=234(LC 23), 19=2239(LC 1)

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

TOP CHORD 3-4=-64/325, 4-5=-112/574, 5-6=-401/1482, 6-7=-448/453, 7-8=-699/419, 8-9=-844/395,

9-10=-1067/430, 10-11=-1554/519, 11-26=-470/174

BOT CHORD 3-22=-276/170, 21-22=-276/171, 19-21=-485/220, 18-19=-1060/371, 17-18=-312/468, 15-17=-220/578, 14-15=-384/1393, 11-14=-384/1393

WEBS 4-21=-375/180, 5-21=-53/264, 5-19=-1275/432, 6-19=-1400/544, 6-18=-506/1726, 7-18=-763/300, 7-17=-72/327, 8-15=-91/353, 9-15=-89/339, 10-15=-707/296

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 12=233, 19=632.



Structural wood sheathing directly applied or 2-2-0 oc purlins. Rigid ceiling directly applied or 5-5-15 oc bracing.

5-19

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

December 3,2020

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

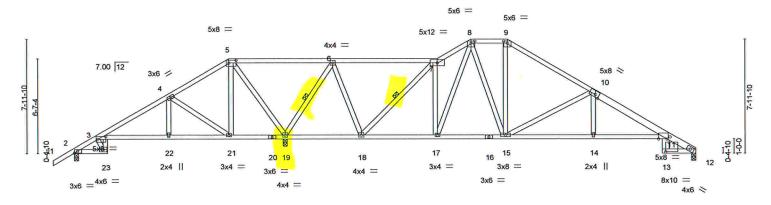
ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job Truss Type Qty SIMQUE - LOT 52 PLL Truss Ply T22054683 2561777 T15 Roof Special Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:49 2020 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:GjsENh3AN7JWL7eGMO7rqozizFI-laxJhn6qlzgHaXvSGmvMTpXQugCpAmm378p?U9yD?bm 1-6-0 2-3-8 1-6-0 2-3-8 17-10-0 7-2-0 27-4-0 | 29-10-0 | 2-4-0 | 2-6-0 40-6-8 42-10-0 44-4-0 2-3-8 1-6-0 4-2-4 4-2-4

Scale = 1:76.9



	2-3-8	6-5-12 10-8-0 4-2-4 4-2-4	14-6-4 3-10-4	19-9-2 5-2-14	25-0-0 5-2-14	29-10-0 4-10-0		35-9-0 5-11-0	40-6-8 4-9-8	42-10-0 2-3-8
Plate Offs	ets (X,Y)-	[3:0-6-8,0-2-7], [5:0-6-0,0	-2-4], [8:0-3-0,0-1	1-12], [9:0-3-0,0-1-12],	[10:0-3-0,Edge], [10:0-3-0,Edge]	1:0-7-0,0-0-0],	[11:0-0-13,0)-0-7], [11:	:0-3-10,1-0-8], [11:0-3-0),0-1-12],
		[13:0-2-12,0-0-0]							·	
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 0.99	Vert(LL)	-0.20 11-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.92	Vert(CT)	-0.37 11-14	>911	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.96	Horz(CT)	0.16 12	n/a	n/a		
BCDL	10.0	Code FBC2017/TI	PI2014	Matrix-MS					Weight: 255 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

1 Row at midpt

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

6-19, 7-18

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

10-12: 2x6 SP No.2 BOT CHORD 2x4 SP No.2 *Except*

3-23: 2x4 SP No.3, 11-13: 2x6 SP No.2

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 19=0-3-8

Max Horz 2=203(LC 11)

Max Uplift 2=-52(LC 13), 12=-245(LC 13), 19=-712(LC 12) Max Grav 2=170(LC 23), 12=782(LC 1), 19=2366(LC 1)

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

TOP CHORD 3-4=-179/605, 4-5=-244/926, 5-6=-406/1438, 6-7=-128/545, 7-8=-541/524,

8-9=-582/329, 9-10=-773/332, 10-11=-1427/473, 11-29=-470/171

BOT CHORD 3-22=-473/212, 21-22=-472/212, 19-21=-774/340, 18-19=-770/278, 17-18=-263/421,

15-17=-160/470, 14-15=-340/1270, 11-14=-341/1261

4-21=-410/198, 5-21=-77/279, 5-19=-1184/425, 6-19=-1533/538, 6-18=-211/905,

7-18=-1053/327, 7-17=-15/437, 8-17=-364/47, 8-15=-87/348, 10-15=-794/344,

10-14=0/296

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 12=245, 19=712.



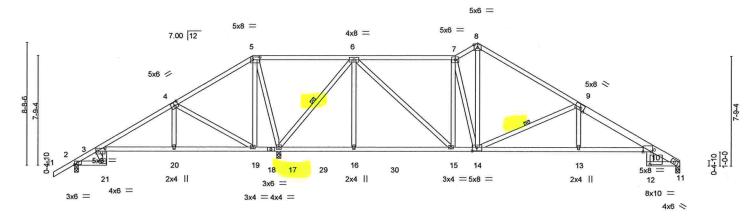
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

December 3,2020



ĺ	Job	Truss		Truss Type			Qty	Ply	SIMQUE - LOT 52 PLL			
j	or delication and the second	100m to	i.						4.		T220	54684
	2561777	T16		Roof Special			1	1				
									Job Reference (optional)			
	Builders FirstSource (Jackso	nville, FL),	Jacksonville, F	L - 32244,			8	.240 s Mar	9 2020 MiTek Industries, In	nc. Wed Dec 2	12:33:52 2020 Page	e 1
	*					ID:GjsE	Nh3AN7	WL7eGMC	7rqozizFI-99dRKp8ibu2sR	?e1xvT34S9xNu	EnN50Wp51f5UyD?	bj
	_t 1-6-0, 2-3-8	7-1-0	12-8-0	T	19-10-0	27-0	-0	28-7-0,	35-9-0	40-6-8	42-10-0 44-4-0	
	1-6-0 2-3-8	4-9-8	5-7-0		7-2-0	7-2-	0	1-7-0	7-2-0	4-9-8	2-3-8 1-6-0	

Scale = 1:78.5



2-3-8 2-3-8		12-8-0 5-7-0	1-10-4	19-10-0 5-3-12	27-0-0 7-2-0	28-7-0 1-7-0	35-9-0 7-2-0	40-6-8 4-9-8	42-10-0 2-3-8	
Plate Offsets (X,Y)-	[3:0-6-8,0-2-7], [4:0-3-0 [14:0-3-12,0-3-0]	,0-3-0], [5:0-6-0	,0-2-4], [9:0-	3-0,Edge], [1	10:0-0-13,0-0-7], [10):0-3-10,1-0-8],	[10:0-3-0,0-1-12], [1	0:0-7-0,0-0-0], [12:0-2-1	2,0-0-0],	1
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2017/	2-0-0 1.25 1.25 YES	CSI. TC BC WB	0.97 0.90 0.99 ix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.19 10-13 -0.36 10-13 0.14 11	l/defl L/d >999 240 >937 180 n/a n/a	PLATES MT20 Weight: 262 lb	GRIP 244/190 FT = 20%	, Ge.

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied.

1 Row at midpt

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

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

9-11: 2x6 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

3-21: 2x4 SP No.3, 10-12: 2x6 SP No.2

WEBS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 11=0-3-8, 17=0-3-8

Max Horz 2=220(LC 11)

Max Uplift 2=-60(LC 13), 11=-257(LC 13), 17=-746(LC 12) Max Grav 2=153(LC 23), 11=804(LC 20), 17=2397(LC 1)

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

TOP CHORD 3-4=-228/697, 4-5=-324/1153, 5-6=-324/1224, 6-7=-578/407, 7-8=-662/391,

8-9=-735/353, 9-10=-1491/493, 10-27=-488/177

BOT CHORD 3-20=-539/223, 19-20=-537/223, 17-19=-940/404, 16-17=-473/194, 15-16=-473/194, 14-15=-221/493, 13-14=-359/1231, 10-13=-369/1311

14-15=-221/493, 13-14=-359/1321, 10-13=-360/1311 4-19=-505/248, 5-19=-77/293, 5-17=-1144/420, 6-17=-1558/505, 6-16=0/309,

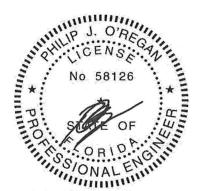
6-15=-262/935, 7-15=-529/196, 9-14=-909/397, 9-13=0/327, 8-14=-332/425,

7-14=-86/303

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 11=257, 17=746.



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

December 3,2020

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

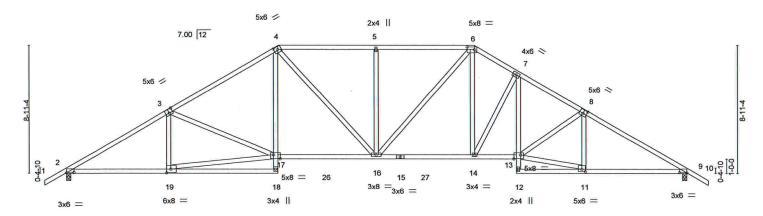
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, crection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-99 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 52 PLL		
		1.0							T22054685
2561777	T17	Hip		1	1				
						Job Refe	rence (optional)		
Builders FirstSource (.	acksonville, FL),	Jacksonville, FL - 32244,			8.240 s Ma	ar 9 2020 N	AiTek Industries, In	nc. Wed Dec 2 12:33	:54 2020 Page 1
				ID:GjsENh3AN	7JWL7eGMO	7rqozizFI-5	YkCkUAy6VlahJr	P3KVXAtENkhznr1tp	HPWmAMyD?bh
r1-6-0	7-1-0	14-8-0	21-5-0	28-2-)	31-1-0	35-9-0	42-10-0	44-4-0
1-6-0	7-1-0	7-7-0	6-9-0	6-9-0	1/4	2-11-0	4-8-0	7-1-0	1-6-0

Scale = 1:77.1



	ï	7-1-0	14-7-8	1	21-5-0	28-	2-0		31-1-0	35-9-0	42-10-0	
		7-1-0	7-6-8	U.	6-9-8	6-9	9-0		2-11-0	4-8-0	7-1-0	1
Plate Offse	ets (X,Y)-	[2:0-6-0,0-0-3], [3:0-3-0,0)-3-4], [4:0-3-1	0,0-2-5], [6:0-6	6-0,0-2-41.	[8:0-3-0,0-3-0], [9:0-6	6-0,0-0-	3], [11:0	-3-0,0-2-	0], [13:0-5-8,0-	3-4], [17:0-5-8,0-3-4]	. [19:0-3-8
11 11 12 12	- W. M. M.	,0-3-0]						A STATE OF THE STA	2 200 20			EMIONE O O
											No. 12 of Contract Co.	
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	0.60	Vert(LL)	-0.22	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.43	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.18	9	n/a	n/a		
										Martin and Artist and	Weight: 271 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

3-4: 2x4 SP M 31 **BOT CHORD** 2x4 SP No.2 *Except*

4-18,7-12: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS.

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

Max Horz 2=234(LC 11)

Max Uplift 2=-387(LC 12), 9=-388(LC 13) Max Grav 2=1666(LC 1), 9=1666(LC 1)

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

TOP CHORD 2-3=-2739/861, 3-4=-2452/829, 4-5=-2256/853, 5-6=-2255/853, 6-7=-2353/853,

7-8=-2722/916, 8-9=-2718/854

BOT CHORD 2-19=-624/2298, 4-17=-134/639, 16-17=-433/2014, 14-16=-428/2010, 13-14=-548/2289, 7-13=-166/529, 9-11=-620/2273

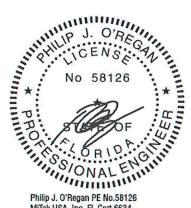
17-19=-609/2204, 3-17=-422/257, 4-16=-239/505, 5-16=-410/239, 6-16=-241/506, 6-14=-198/729, 7-14=-606/260, 11-13=-607/2203, 8-11=-356/160

NOTES-

WEBS

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=387, 9=388.



Structural wood sheathing directly applied or 2-9-8 oc purlins.

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

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

December 3,2020

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



6904 Parke East Blvd. Tampa, FL 36610

Job SIMQUE - LOT 52 PLL Truss Truss Type Qtv Plv T22054686 T18 2561777 Hip Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:57 2020 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:GjsENh3AN7JWL7eGMO7rqozizFI-W7QKNWCrPQg9YmW_kS2EnVsslvwP2OZFzNlQnhyD?be 26-2-0 31-1-0 35-9-0

4-9-0

4-11-0

4-8-0

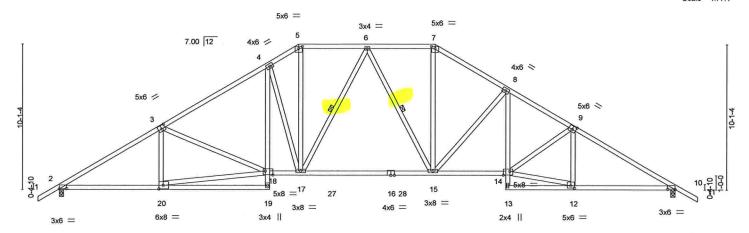
Structural wood sheathing directly applied or 2-7-15 oc purlins.

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

1 Row at midpt

4-9-0

Scale = 1:77.1



1-0-0-0		7-1-0 7-1-0	14-7-8 7-6-8	16-8-0 2-0-8		26-2-0 9-6-0		31-1-0 4-11-0	35-9-0 4-8-0	42-10-0 7-1-0		
Plate Offse	ets (X,Y)-	[2:0-6-0,0-0-3], [3:0-3-0, [20:0-3-8,0-3-0]	0-3-0], [5:0-3-0,	0-1-12], [7:0-	3-0,0-1-12],	[9:0-3-0,0-3-0], [10):0-6-0,0-0	-3], [12:0-3-0	,0-2-0], [14:0-5-	8,0-3-4], [18:0-6-4,0-	3-4],	
LOADING TCLL	20.0	SPACING- Plate Grip DOL	2-0-0 1.25	CSI.	0.64	DEFL. Vert(LL)	-0.33 15		L/d 240	PLATES MT20	GRIP 244/190	(25)
TCDL BCLL BCDL	7.0 0.0 * 10.0	Lumber DOL Rep Stress Incr Code FBC2017/	1.25 YES TPI2014	BC WB Matrix	1.00 0.84 c-MS	Vert(CT) Horz(CT)	-0.62 15 0.18	-17 >834 10 n/a	180 n/a	Weight: 287 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

4-19,8-13: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=263(LC 11)

Max Uplift 2=-449(LC 12), 10=-449(LC 13) Max Grav 2=1666(LC 1), 10=1666(LC 1)

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

TOP CHORD 2-3=-2737/846, 3-4=-2446/821, 4-5=-2186/834, 5-6=-1848/723, 6-7=-1848/726,

7-8=-2201/789, 8-9=-2727/903, 9-10=-2717/840

7-6-8

2-0-8

BOT CHORD 2-20=-653/2294, 4-18=-152/398, 17-18=-449/2020, 15-17=-384/1921, 14-15=-546/2306,

8-14=-157/542, 10-12=-608/2271 WEBS 18-20=-640/2102, 3-18=-399/217, 4-17=-637/362, 5-17=-364/966, 6-17=-305/216.

6-15=-312/220, 7-15=-260/829, 8-15=-709/318, 12-14=-593/2211, 9-12=-357/155

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=449, 10=449.



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

December 3,2020

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

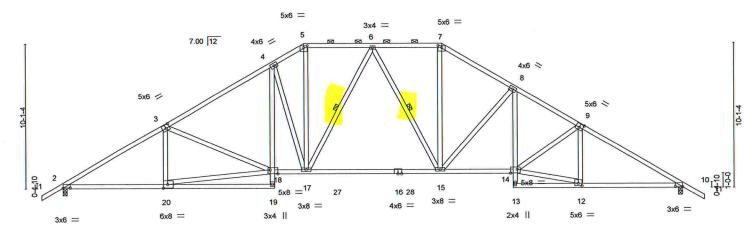
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall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

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



Truss Type Qty SIMQUE - LOT 52 PLL Job Truss T22054687 2561777 T19 Piggyback Base Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 2 12:33:58 2020 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:GjsENh3AN7JWL7eGMO7rqozizFI-_J_iasDTAko09w5Al9ZTKjP12lGenrpOC1U_J7yD?bd 42-10-0 7-1-0 16-8-0 2-0-8 26-2-0 4-9-0 31-1-0 35-9-0 7-6-8

Scale = 1:77.1



	1	7-1-0	14-7-8	16-8-0	1	26-2-0		31-1	-0	35-9-0	42-10-0	
	,	7-1-0	7-6-8	2-0-8		9-6-0	1	4-11		4-8-0	7-1-0	
Plate Offs	ets (X,Y)-	[2:0-6-0,0-0-3], [3:0-3-0,0 [20:0-3-8,0-3-0])-3-0], [5:0-3-0,	,0-1-12], [7:0-	3-0,0-1-12],	[9:0-3-0,0-3-0], [10);0-6-0,0)-0-3], [12:0-3-0,0	0-2-0], [14:0-5-	8,0-3-4], [18:0-6-4,0-3	3-4],
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	0.64	Vert(LL)	-0.33	15-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.62	15-17	>834	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.18	10	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MS						Weight: 287 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

except

1 Row at midpt

2-0-0 oc purlins (4-1-8 max.): 5-7.

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

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* BOT CHORD

4-19,8-13: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=-263(LC 10)

Max Uplift 2=-449(LC 12), 10=-449(LC 13)

Max Grav 2=1666(LC 1), 10=1666(LC 1)

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

TOP CHORD 2-3=-2737/846, 3-4=-2446/821, 4-5=-2186/834, 5-6=-1848/723, 6-7=-1848/726,

7-8=-2201/789, 8-9=-2727/903, 9-10=-2717/840

BOT CHORD 2-20=-653/2294, 4-18=-152/398, 17-18=-449/2020, 15-17=-384/1921, 14-15=-546/2306,

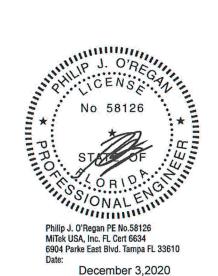
8-14=-157/542, 10-12=-608/2271

WEBS 18-20=-640/2102, 3-18=-399/217, 4-17=-637/362, 5-17=-364/966, 6-17=-305/216,

6-15=-312/220, 7-15=-260/829, 8-15=-709/318, 12-14=-593/2211, 9-12=-357/155

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=449, 10=449,
- 7) 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 2-7-15 oc purlins,

6-17, 6-15

December 3,2020

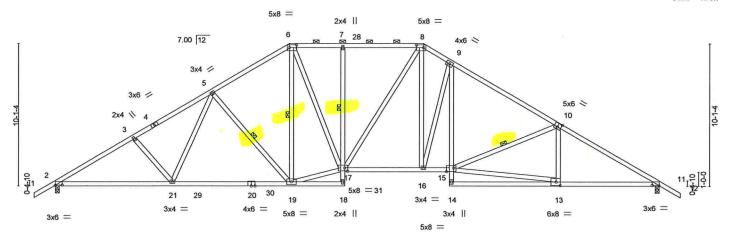
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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	у Р	у	SIMQUE - LOT 52 PLL		
			L							T22054688
2561777	T20		Piggyback Base		3		1			
								Job Reference (optional)		
Builders FirstSource (Ja	acksonville, FL),	Jacksonville,	FL - 32244,			8.24	0 s Ma	9 2020 MiTek Industries,	Inc. Wed Dec 2 12:3	4:00 2020 Page 1
					ID:GjsENh	n3AN7JW	L7eGM	O7rqozizFI-wi6T?YFjiL2jPI	EFZPacxP8UOZ6_UF	mqhfLz4N0yD?bb
_t 1-6-0,	5-7-13	11-2-6	16-8-0	20-7-8	 26-2-0	,28-0	-8	35-9-0	42-10-0	44-4-0,
1-6-0	5-7-13	5-6-9	5-5-10	3-11-8	5-6-8	1-10	1-8	7-8-8	7-1-0	1-6-0

Scale = 1:78.7



	t-	8-3-14	16-8-0	ĺ.	20-7-8	26-2-0	28-0-8	35-9-0	42-10-0	i
	- T	8-3-14	8-4-2		3-11-8	5-6-8	1-10-8	7-8-8	7-1-0	
Plate Offse	ets (X,Y)-	[2:0-6-0,0-0-3], [6:0-6-0	,0-2-4], [8:0-6-0,0	-2-4], [10:0-3	3-0,0-3-4], [1	1:0-6-0,0-0-3], [13	3:0-3-8,0-3-0], [15:0-6-0,0-3-4], [17	7:0-2-8,0-2-12]	
LOADING TCLL TCDL BCLL	(psf) 20.0 7.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 YES	CSI. TC BC WB	0.64 0.85 0.81	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.26 19-21 -0.48 19-21 0.16 11	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code FBC2017/	TPI2014	Matrix	-MS				Weight: 297 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

7-18,9-14: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS.

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

Max Horz 2=-263(LC 10)

Max Uplift 2=-449(LC 12), 11=-449(LC 13) Max Grav 2=1666(LC 1), 11=1666(LC 1)

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

TOP CHORD 2-3=-2748/864, 3-5=-2565/856, 5-6=-1993/749, 6-7=-1924/760, 7-8=-1931/762,

8-9=-2179/842, 9-10=-2433/818, 10-11=-2739/846

BOT CHORD 2-21=-685/2324, 19-21=-507/1992, 7-17=-298/176, 16-17=-344/1840, 15-16=-428/2007,

9-15=-125/418, 11-13=-619/2296

WEBS 3-21=-277/204, 5-21=-116/495, 5-19=-611/302, 6-19=-105/256, 17-19=-302/1665, 6-17=-189/749, 8-17=-194/321, 8-16=-313/906, 9-16=-673/342, 13-15=-600/2104,

6-17=-189/749, 8-17=-194/321, 8-16=-313/906, 9-16=-673/342, 13-15=-600/210 10-15=-407/250

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=449 11=449
- 7) 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 2-9-8 oc purlins, except

5-19, 6-19, 10-15

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

7-17

2-0-0 oc purlins (3-9-3 max.): 6-8.

1 Row at midpt

1 Row at midpt

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

December 3,2020

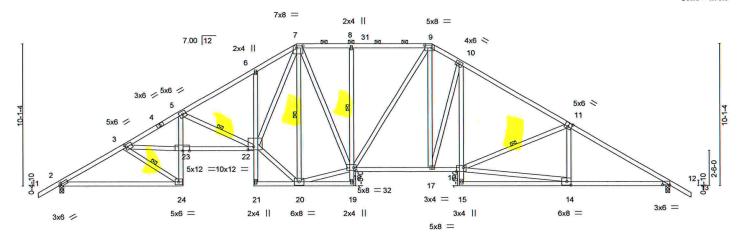
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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, cerction 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 52 PLL Job Truss Truss Type Qty Ply T22054689 2561777 T21 Piggyback Base Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Dec 2 12:34:02 2020 Page 1 ID:GjsENh3AN7JWL7eGMO7rqozizFI-s4DDQEGzEyIReXPyX?ePUZZk2wgGjdU_6fSBSvyD?bZ 28-0-8 42-10-0 7-1-0 16-8-0 3-0-8 35-9-0

Scale = 1:78.5



	1	8-8-0 8-8-0	13-7-8 4-11-8	16-8-0 3-0-8	20-7-8 3-11-8	26-2-0 5-6-8	28-0-8	35-9- 7-8-8		42-10-0 7-1-0	1
Plate Offs	ets (X,Y)-	[2:0-1-8,0-1-8], [3:0-1-4,0)- <mark>1-1</mark> 2], [9:0-6	5-0,0-2-4], [1	11:0-3-0,0-3-4], [12	2:0-6-0,0-0-4], [14:0-3-8,0-3-	0], [16:0-6-0,0-3-4]	, [18:0-2-0,0-2	2-8],
LOADING	(psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.25	CSI.	0.64	DEFL. Vert(LL)	in (loc) -0.37 22-23		- 10 PM	ATES	GRIP 244/190
TCDL BCLL BCDL	7.0 0.0 * 10.0	Lumber DOL Rep Stress Incr Code FBC2017/T	1.25 YES	вс	0.83 0.99	Vert(CT) Horz(CT)	-0.70 22-23 0.45 12	10.100.000	80 n/a	eight: 324 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

except

1 Row at midpt

1 Row at midpt

2-0-0 oc purlins (3-9-9 max.): 7-9.

LUMBER-TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

22-23: 2x4 SP M 31, 6-21,8-19,10-15: 2x4 SP No.3

2x4 SP No.3 *Except*

3-23: 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 12=0-3-8

Max Horz 2=-263(LC 10)

Max Uplift 2=-449(LC 12), 12=-449(LC 13) Max Grav 2=1666(LC 1), 12=1666(LC 1)

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

TOP CHORD 2-3=-2756/878, 3-5=-4885/1430, 5-6=-3138/985, 6-7=-3089/1079, 7-8=-1923/760,

8-9=-1930/763, 9-10=-2180/842, 10-11=-2433/818, 11-12=-2739/846

BOT CHORD 2-24=-706/2333, 23-24=-420/1508, 5-23=-363/1409, 22-23=-1148/4246, 8-18=-297/173,

17-18=-344/1841, 16-17=-428/2007, 10-16=-124/416, 12-14=-619/2296

3-24=-2648/817, 3-23=-1112/4069, 5-22=-1773/609, 20-22=-396/2111, 7-22=-736/2600, WEBS

7-20=-1675/353, 18-20=-305/1632, 7-18=-182/753, 9-18=-194/320, 9-17=-313/904,

10-17=-669/342, 14-16=-600/2103, 11-16=-407/250

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=449, 12=449.
- 7) 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 2-3-11 oc purlins,

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

8-18

3-24, 5-22, 7-20, 11-16

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

December 3,2020

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 systems, see MSI/TPH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



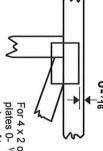
6904 Parke East Blvd. Tampa, FL 36610

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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required direction of slots in This symbol indicates the connector plates

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

PLATE SIZE

4 × 4

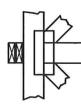
width measured perpendicular to slots. Second dimension is the length parallel to slots. The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

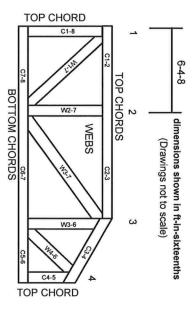
ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.

Building Component Safety Information, Design Standard for Bracing.

DSB-89:

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

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

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

ņ

4

- 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 locations are regulated by ANSI/TPI 1. joint and embed fully. Knots and wane at joint
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

7

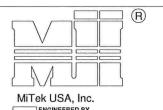
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.

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

MII-T-BRACE 2

MiTek USA, Inc. Page 1 of 1



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

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

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

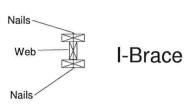
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)

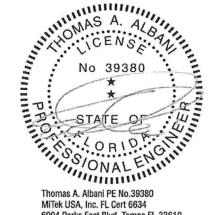
		e Size -Ply Truss
		Continuous Iteral Bracing
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

Nails
WEB SPACING
T-BRACE
Nails Section Detail T-Brace Web

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

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





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

SCAB-BRACE DETAIL

MII-SCAB-BRACE

MiTek USA, Inc.

Page 1 of 1

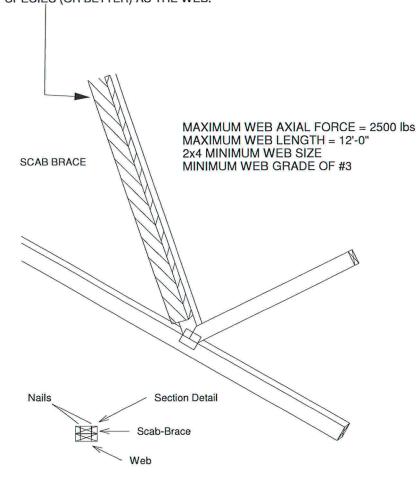


Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.

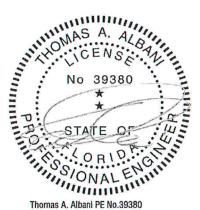
Scab must cover full length of web +/- 6".

*** 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

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. THE LOADS INDICATED.

THE LOADS INDICATED.

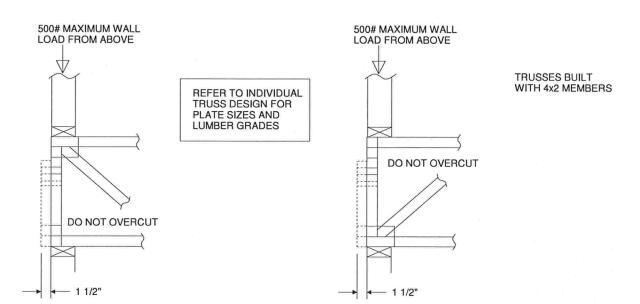
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

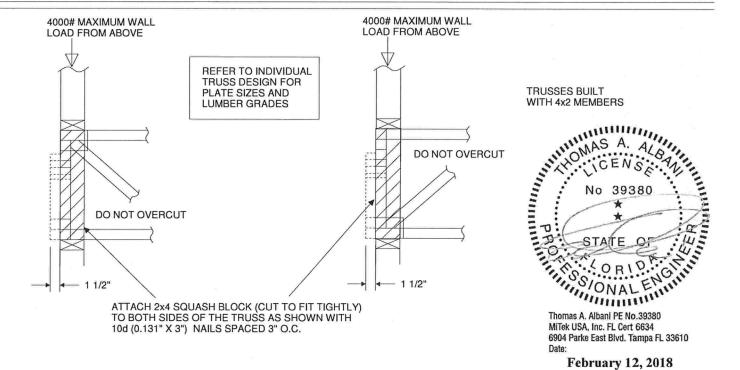
3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.

4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.

5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X_ORIENTATION ONLY.

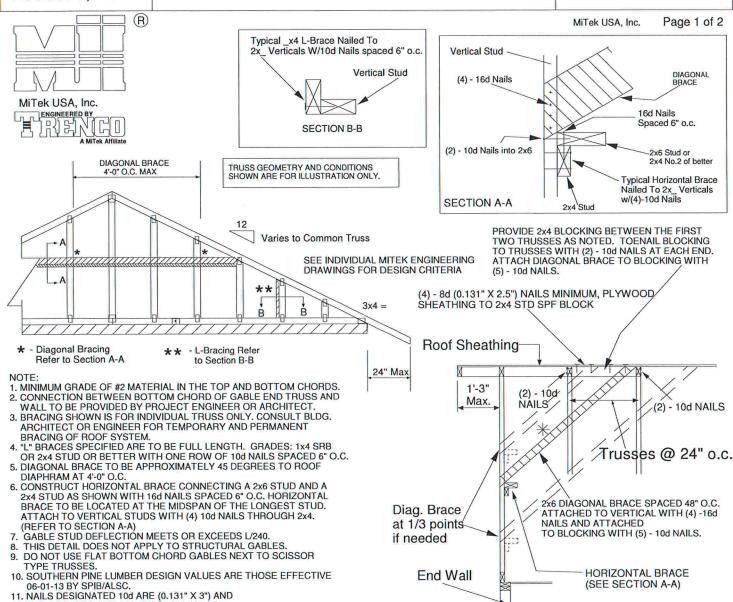
6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.





Standard Gable End Detail

MII-GE130-D-SP



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

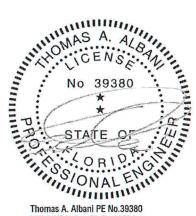
Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

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

MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE D ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH ASCE 7-10 160 MPH

DURATION OF LOAD INCREASE: 1.60

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 Gable End Detail

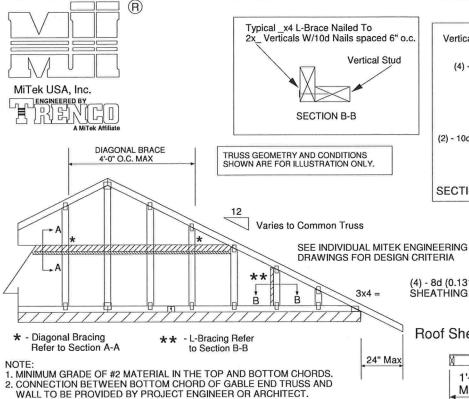
MII-GE130-SP

Page 1 of 2

(2) - 10d NAILS

Trusses @ 24" o.c.

MiTek USA, Inc.



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

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

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

10d

NAILS

End Wall

Roof Sheathing

1'-3"

Max.

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

4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

DIAPHRAM AT 4'-0" O.C.

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

7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES

9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR 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")

).	
	Di at if

2x6 DIAGONAL BRACE SPACED 48" O.C. ag. Brace ATTACHED TO VERTICAL WITH (4) -16d NAILS AND ATTACHED 1/3 points TO BLOCKING WITH (5) - 10d NAILS.

needed

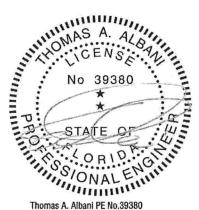
HORIZONTAL BRACE (SEE SECTION A-A)

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

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

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

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. DURATION OF LOAD INCREASE: 1.60 CONNECTION OF BRACING IS BASED ON MWFRS.

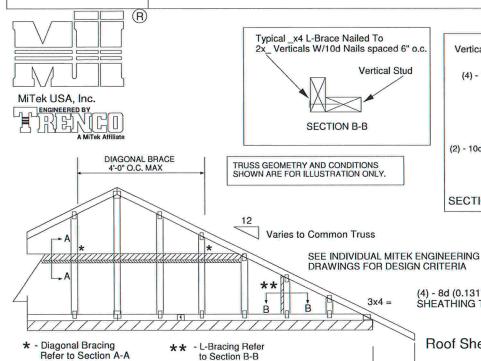


Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date



Standard Gable End Detail

MII-GE140-001



MiTek USA, Inc. Page 1 of 2 Vertical Stud DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-10d Nails SECTION A-A

> 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 DF/SPF BLOCK

- 10d

NAILS

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.
 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG.
- ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMAI BRACING OF ROOF SYSTEM. 4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES
- OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SF 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO DIAPHRAM AT 4'-0" O.C. 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STU
- 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HOP BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGES ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUG
- (REFER TO SECTION A-A)
 7. 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 SC TYPE TRUSSES.
- NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

HITECT. SULT BLDG. ANENT	, .	*
ES: 1x4 SRB SPACED 6" O.C TO ROOF	i	Trusses @ 24" o.c.
TUD AND A DRIZONTAL EST STUD. GH 2x4.	Diag. Brace at 1/3 points if needed	2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS AND ATTACHED TO BLOCKING WITH (5) - 10d NAILS.
S. CISSOR	End Wall	HORIZONTAL BRACE (SEE SECTION A-A)
	0.000000	. 1

Roof Sheathing

1'-3"

Max.

24" Max

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

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

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

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

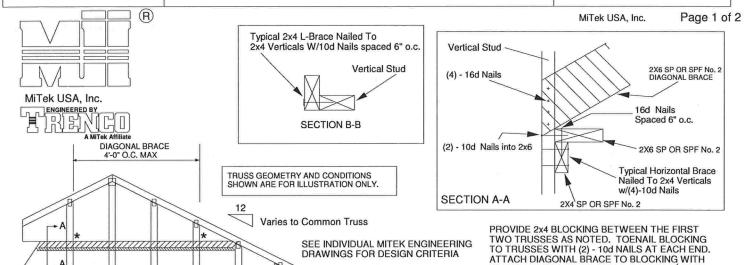


(2) - 10d NAILS

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

Standard Gable End Detail

MII-GE170-D-SP



3x4 =

Diagonal Bracing Refer to Section A-A

★★ - L-Bracing Refer to Section B-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. ARCHITECT OR ENGINEER 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

5. DIAGONAL BRACE TO BE AFFROXIMATELT 43 DEGREES TO ROOF
DIAPHRAM AT 4-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A
2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL
BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

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

TYPE TRUSSES.

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

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

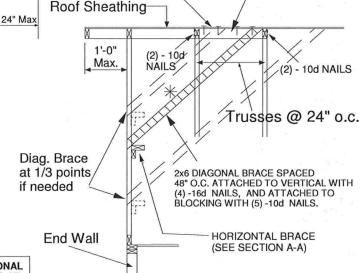
Minimum Stud Size	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
Species and Grade		,	ud Length	*	
2x4 SP No. 3 / Stud	12" O.C.	3-9-7	5-8-8	6-11-1	11-4-4
2x4 SP No. 3 / Stud	16" O.C.	3-4-12	4-11-15	6-9-8	10-2-3
2x4 SP No. 3 / Stud	24" O.C.	2-9-4	4-0-7	5-6-8	8-3-13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



(5) - 10d NAILS.

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

No 39380

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

Standard Gable End Detail

MII-GE180-D-SP



16d Nails Spaced 6" o.c.

2X6 SP OR SPF No. 2

(2) - 10d NAILS

Trusses @ 24" o.c.

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

MiTek USA, Inc.

(R)

A MiTek Affiliate DIAGONAL BRACE

4'-0" O.C. MAX

ENGINEERED BY

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

24" Max

Diag. Brace

at 1/3 points

End Wall

if needed

3x4 =

Vertical Stud

(4) - 16d Nails

(2) - 10d Nails into 2x6

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

(2) - 10d NAILS

SECTION A-A

Roof Sheathing

1'-0"

Max.

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.

2X4 SP OR SPF No. 2

* - Diagonal Bracing Refer to Section A-A

L-Bracing Refer to Section B-B

**

- MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND
- WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
- 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT
- BRACING OF ROOF SYSTEM.

 4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3
 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.

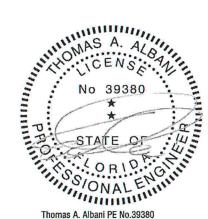
 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF
- DIAPHRAM AT 4'-0" O.C.
- 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS 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 NAILS DESIGNATED 16d ARE (0.131" X 3.5")

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

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

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D ASCE 7-10 180 MPH **DURATION OF LOAD INCREASE: 1.60**

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



2x6 DIAGONAL BRACE SPACED

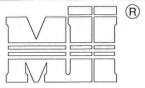
48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS, AND ATTACHED TO BLOCKING WITH (5) -10d NAILS.

HORIZONTAL BRACE

(SEE SECTION A-A)

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

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

ASCE 7-10

DURATION OF LOAD INCREASE: 1.60

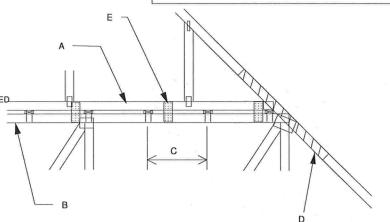
DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.



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

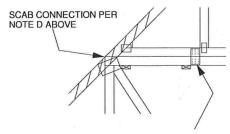
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR 2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM

PIGGYBACK SPAN OF 12 ft. E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3/8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

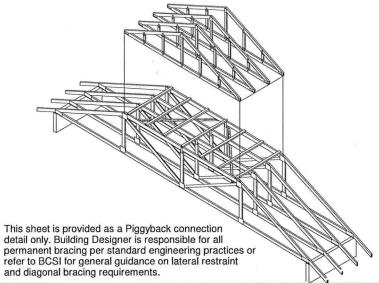


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

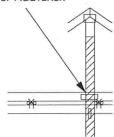
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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



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



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

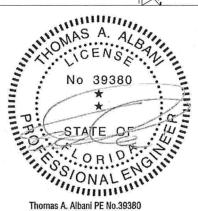
VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.

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

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

GREATER THAN 4000 LBS. FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS,

NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS. CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.



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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**



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

R

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

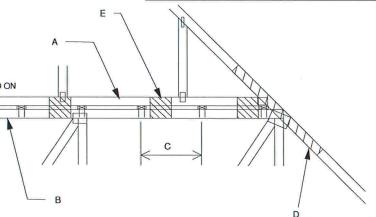
IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:

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

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

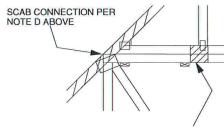
E - FOR WIND SPEED IN THE RANGE 126 MPH - 160 MPH ADD 9" x 9" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH

3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)

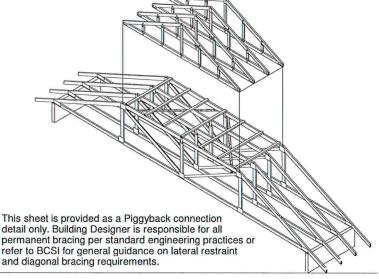


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

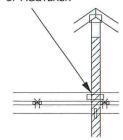
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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



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

MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
ATTACH 2 x x 4-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 I RS.

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.



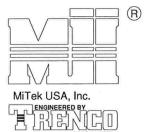
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STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES

MII-REP01A1

MiTek USA, Inc.

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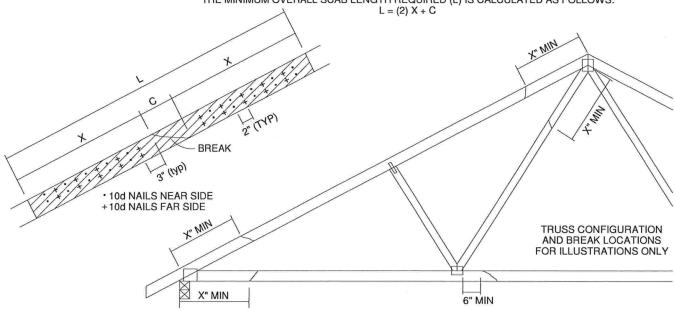
A MiTek Affiliate

TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *			-	MAX	имим го	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. STAĞGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

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



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

DO NOT USE REPAIR FOR JOINT SPLICES

- NOTES:

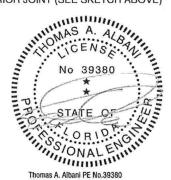
 1. THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES

 NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS

 SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED

 REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.

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



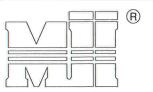
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LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP

MiTek USA, Inc.

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MiTek USA, Inc. ENGINEERED BY NOTES:

- 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.

 2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.

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

THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

> SIDE VIEW (2x3) 2 NAILS

> > NEAR SIDE NEAR SIDE

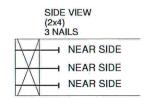
	DIAM.	SP	DF	HF	SPF	SPF-S
	.131	88.0	80.6	69.9	68.4	59.7
LONG	.135	93.5	85.6	74.2	72.6	63.4
3.5" L	.162	108.8	99.6	86.4	84.5	73.8
LONG	.128	74.2	67.9	58.9	57.6	50.3
Ō	.131	75.9	69.5	60.3	59.0	51.1
3.25"	.148	81.4	74.5	64.6	63.2	52.5

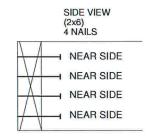
VALUES SHOWN ARE CAPACITY PER TOE-NAIL. APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

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

For load duration increase of 1.15:

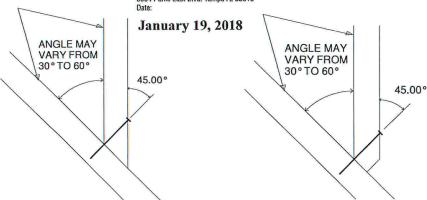
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

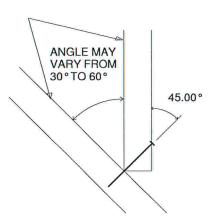






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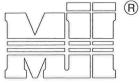


TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

MiTek USA, Inc.

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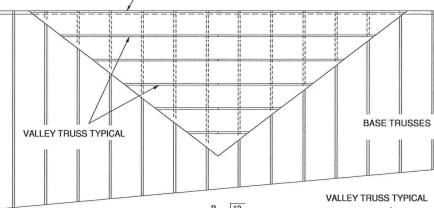
MiTek USA, Inc.

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GABLE END, COMMON TRUSS OR GIRDER TRUSS

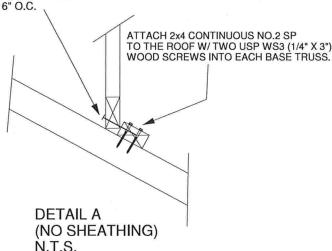
GENERAL SPECIFICATIONS

- 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.



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

ON THE TRUSSES

No 39380

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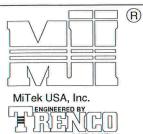
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TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2

MiTek USA, Inc.

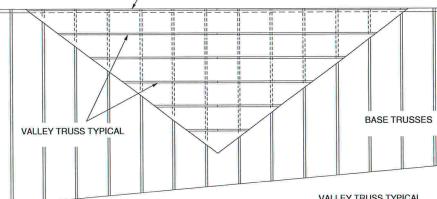
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GABLE END, COMMON TRUSS OR GIRDER TRUSS

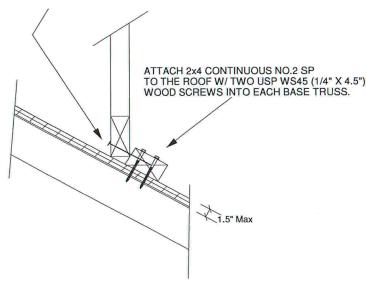
GENERAL SPECIFICATIONS

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



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

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



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



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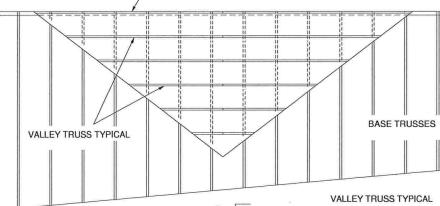
MiTek USA, Inc.

ENGINEERED B

GABLE END, COMMON TRUSS OR GIRDER TRUSS

GENERAL SPECIFICATIONS

- 1. NAIL SIZE 16d (0.131" X 3.5") 2. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 5. NAILING DONE PER NDS 01
- 6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
- 7. ALL LUMBER SPECIES TO BE SP.



GABLE END, COMMON TRUSS OR GIRDER TRUSS 12 P 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.

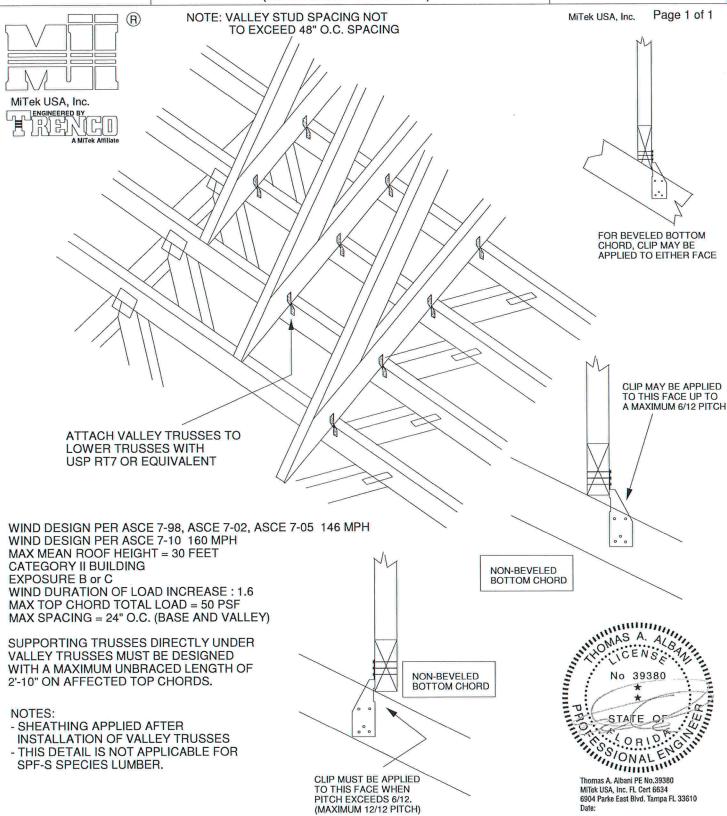
WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10 150 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12 CATEGORY II BUILDING EXPOSURE C OR B WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 60 PSF MAX SPACING = 24" O.C. (BASE AND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



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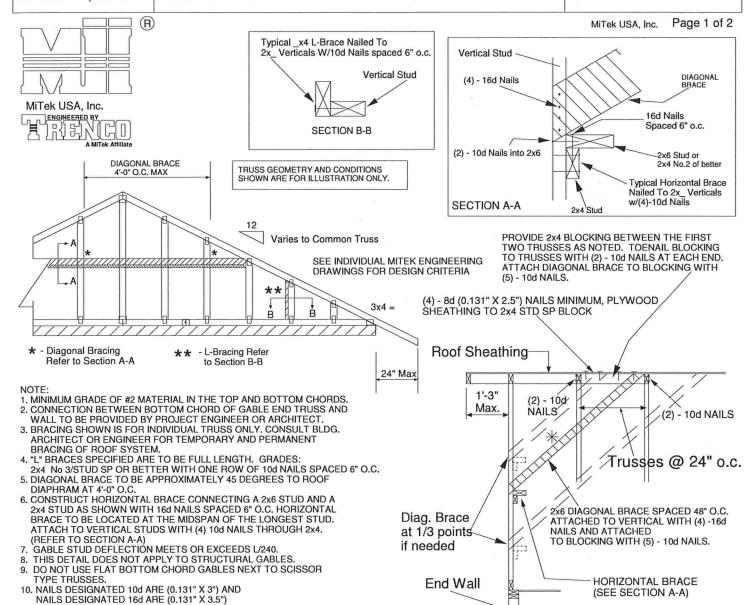
TRUSSED VALLEY SET DETAIL (HIGH WIND VELOCITY)

MII-VALLEY



Standard Gable End Detail

MII-GE146-001



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



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

OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B

MiTek USA, Inc.

Page 1 of 1

MiTek USA, Inc.

ENGINEERED BY A MiTek Affiliate TRUSS CRITERIA:

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

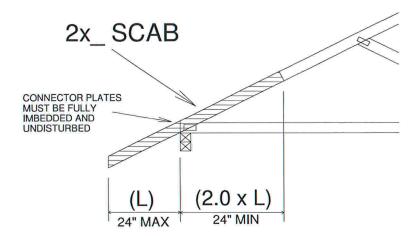
HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL

END BEARING CONDITION

NOTES:

1. ATTACH 2x_SCAB (MINIMUM NO.2 GRADE SPF, HF, SP, DF) TO ONE FACE OF TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED.

TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.

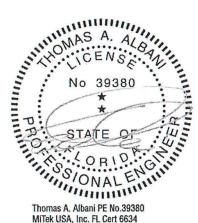


IMPORTANT

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

Trusses not fitting these criteria should be examined individually.

REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



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

LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

MiTek USA, Inc.

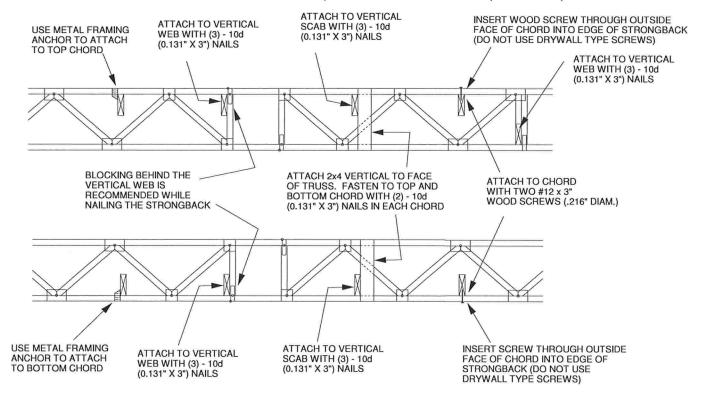
Page 1 of 1

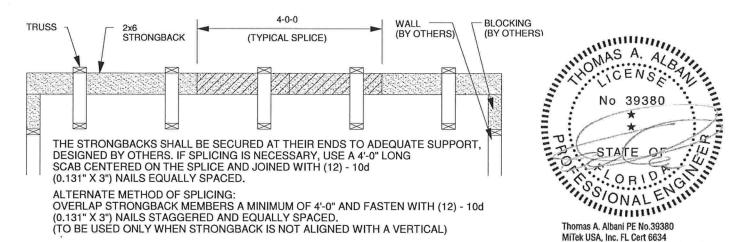


TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

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

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





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

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