

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

RE: 1740941 - SIMQUE RES.

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: Aaron Simque Project Name: Simque Res. Model: Custom Lot/Block: 4

Subdivision: West Paces

Address: N/A, N/A

City: Columbia Cty

State: FL

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

Name:

License #:

Address:

City:

State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special

Loading Conditions):

Design Code: FBC2017/TPI2014

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

Design Program: MiTek 20/20 8.2

Truss Name Date

5/28/19

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

T16G

This package includes 23 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

17168548

No. 123456789111234567892122	Seal# T17168526 T17168527 T17168528 T17168531 T17168531 T17168533 T17168533 T17168536 T17168536 T17168536 T17168537 T17168537 T17168538 T17168540 T17168541 T17168544 T17168545 T17168545 T17168545 T17168545 T17168545 T17168545 T17168545	Truss Name T01 T01G T02 T03 T04 T04G T05 T06 T07 T08 T09 T09G T10 T10G T11 T12 T12G T13 T14 T14G T15 T16	Date 5/28/19	No. 23	Seal# T17168



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

Truss Design Engineer's Name: Velez, Joaquin

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

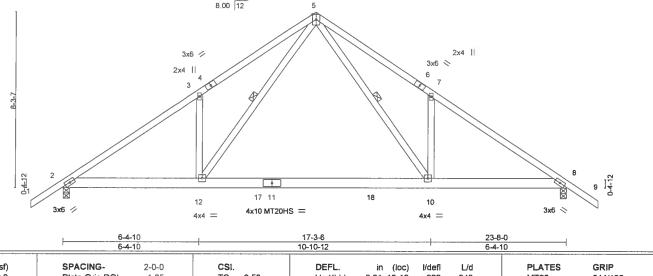
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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.



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

May 28,2019

Job	Truss		Truss Type			Qty	Ply	SIMQUE RES		
1740941	T01		Common			16	1		ד	17168526
								Job Reference (optional)		
Builders FirstSource,	Jacksonville	, FL - 32244,				8.2	240 s May	13 2019 MiTek Industries, Inc. Tue	May 28 10 56 59 2019	Page 1
					ID XwL2	?ZzfDPn3	SolmsSGt	66zD0EV-pW0vm112mmcmEGJfNf	5lktKeLlHmF4j6FNOCaj;	zC_00
	-1-6-0	6-4-10		11-10-0	E.	17-3-6	i	23-8-0	25-2-0	
	1-6-0	6-4-10	ı	5-5-6	1	5-5-6		6-4-10	1-6-0	
					4x6				Sc	ale = 1 52 3
Ī				8.00 12	5					
								0.000		



	6-4-10			10-10-12				6-			
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	тс	0.50	Vert(LL)	-0.21 10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.42 10-12	>679	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.02 8	n/a	n/a		
BCDL	10.0	Code FBC2017/TF	12014	Matri	x-MS	, ,				Weight: 143 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP M 26 2x4 SP No.3 WERS

BRACING-

TOP CHORD BOT CHORD WEBS

Structural wood sheathing directly applied or 3-7-15 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 5-10. 5-12

REACTIONS. (lb/size) 2=1283/0-3-8, 8=1283/0-3-8

Max Horz 2=-286(LC 10)

Max Uplift 2=-543(LC 12), 8=-543(LC 13) Max Grav 2=1316(LC 19), 8=1316(LC 20)

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

2-3=-2099/870, 3-5=-2167/1093, 5-7=-2168/1093, 7-8=-2099/870

BOT CHORD 2-12=-676/1861, 10-12=-293/1088, 8-10=-564/1693

WEBS 5-10=-673/1360, 7-10=-415/388, 5-12=-673/1360, 3-12=-415/388

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=21ft, Cat. It; Exp C; Enct., 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) All plates are MT20 plates unless otherwise indicated.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 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: 1-5=54, 5-9=54, 2-12=-20, 10-12=-80(F=-60), 8-10=-20



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

May 28,2019

🎪 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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

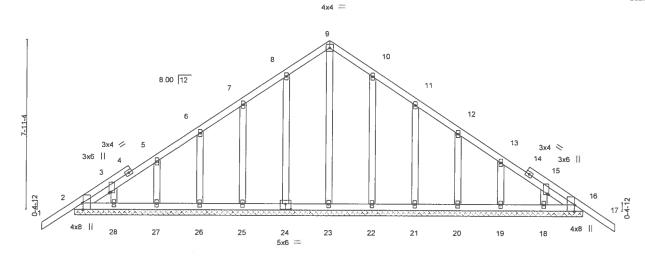
ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314



6904 Parke East Blvd Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	SIMQUE RES	
1740941	TD1G	Common Supported Gable				T17168527
11740341	1010	Common supported Gable	2	1	Job Reference (optional)	
Builders FirstSource,	Jacksonville, FL - 32244		8.2		13 2019 MiTek Industries, Inc. Tue I	May 28 10 57 00 2019 Page 1
					66zD0EV-HiaHzN2gX4kdsQurxMc?0	
	1-6-0	11-10-0			23-8-0	25-2-0
' 1	-6-0	11-10-0	1		11-10-0	1.6.0

Scale = 1.51.9



23-8-0 Plate Offsets (X,Y)-[2:0-3-8,Edge], [3:0-0-9,0-1-0], [15:0-0-9,0-1-0], [16:0-3-8,Edge], [24:0-3-0,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL **PLATES** I/def GRIP TCLL 20.0 Plate Grip DOL TC 1.25 0.16 Vert(LL) -0.01 17 120 244/190 n/r MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.05 Vert(CT) -0.01 17 120 n/r BCLL 0.0 Rep Stress Incr YES WB 0.20 Horz(CT) 0.01 16 n/a n/a BCDL Code FBC2017/TPI2014 10,0 Matrix-S Weight: 152 lb FT = 20%

23-8-0

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. All bearings 23-8-0.

(lb) - Max Horz 2=-275(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 28, 18 except 24=-117(LC 12), 25=-118(LC 12),

26=-118(LC 12), 27=-106(LC 12), 22=-113(LC 13), 21=-120(LC 13), 20=-117(LC 13), 19=-111(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18

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

NOTES-

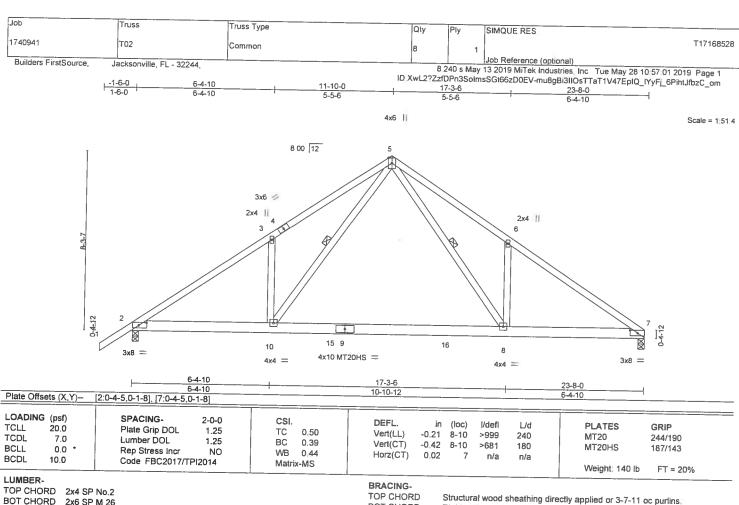
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf; h=21ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions 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.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 28, 18 except (jt=lb) 24=117, 25=118, 26=118, 27=106, 22=113, 21=120, 20=117, 19=111.



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

May 28,2019





BOT CHORD

WEBS

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

5-8, 5-10

1 Row at midpt

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP M 26

WEBS 2x4 SP No.3

REACTIONS. (lb/size) 7=1200/0-3-8, 2=1286/0-3-8

Max Horz 2=275(LC 9)

Max Uplift 7=-489(LC 13), 2=-545(LC 12)

Max Grav 7=1236(LC 20), 2=1318(LC 19)

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

TOP CHORD 2-3=-2101/876, 3-5=-2172/1100, 5-6=-2180/1112, 6-7=-2115/887

BOT CHORD 2-10=-699/1847, 8-10=-316/1074, 7-8=-619/1683 **WEBS**

5-8=-689/1377, 6-8=-414/390, 5-10=-673/1360, 3-10=-415/388

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=21ft, Cat. II; Exp C; 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) All plates are MT20 plates unless otherwise indicated.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 7=489, 2=545
- 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: 1-5=-54, 5-7=-54, 2-10=-20, 8-10=-80(F=-60), 7-8=-20



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

May 28,2019

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6904 Parke East Blvd Tampa, FL 36610

Qty SIMQUE RES Job Truss Truss Type T17168529 la 1740941 T03 Common Job Reference (optional) 8 240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10 57 02 2019 Page 1 Jacksonville, FL - 32244 Builders FirstSource ID_XwL2?ZzfDPn3SolmsSGt66zD0EV-E5i2O23x3h_K5j2E3nfTLWy8TyIVSQDYxLdsB1zC_ol 17-3-6 5-5-6 23-8-0 6-4-10 6-4-10 11-10-0 Scale = 1 50 4 4x6 || 3 8 00 12 2x4 || 2 0-4-12 6 15 13 7 В 3x6 = 3x6 = 4x10 MT20HS = 4×4 = 4x4 = 23-8-0 6-4-10 17-3-6 10-10-12 Plate Offsets (X,Y)-[1:0-6-0,0-0-3], [5:0-6-0,0-0-3] DEFL. L/d **PLATES** GRIP LOADING (psf) SPACING-CSI. (loc) l/defl 2-0-0 0.50 -0.21 6-8 >999 240 MT20 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC Vert(LL) TCDL 7.0 0.39 Vert(CT) -0.42 6-8 >681 180 MT20HS 187/143 Lumber DOL 1.25 BCLL 0.0 Rep Stress Incr NO WB 0.45 Horz(CT) 0.02 n/a n/a BCDL 100 Code FBC2017/TPI2014 Matrix-MS Weight: 137 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SP No.2 TOP CHORD **BOT CHORD** 2x6 SP M 26

2x4 SP No.3 WEBS

REACTIONS. 1=1208/Mechanical, 5=1217/Mechanical (lb/size)

Max Horz 1=254(LC 11)

Max Uplift 1=-493(LC 12), 5=-497(LC 13) Max Grav 1=1242(LC 19), 5=1252(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 1-2--2127/894, 2-3--2191/1119, 3-4--2208/1126, 4-5--2143/902

BOT CHORD 1-8=-716/1869, 6-8=-325/1086, 5-6=-631/1708

3-6=-700/1401, 4-6=-414/390, 3-8=-688/1376, 2-8=-414/390 **WEBS**

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=21ft; Cat. II, Exp C; 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) All plates are MT20 plates unless otherwise indicated.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=493, 5=497
- 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, 3-5=54, 1-8=20, 8-15=80(F=-60), 5-15=-20



Structural wood sheathing directly applied or 3-7-5 oc purlins.

3-6, 3-8

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

1 Row at midpt

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

May 28,2019

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 mabbers only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord mabbers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria. VA 22314.



Job	Truss	Truss Type	Qty	Ply	SIMQUE RES		
							T17168530
1740941	T04	Common	2	1			
				<u> </u>	Job Reference (optional)		
Builders FirstSource,	Jacksonville, FL - 32	244,	8.	240 s May	13 2019 MiTek Industries, Inc.	Tue May 28 10 57 03	2019 Page 1
			ID.XwL2?ZzfDPr	3SolmsS0	Gt66zD0EV-iHGQcO4Zq?6Bjtc	dQcUAiujVFcMbBByJiA	?MQjUzC_ok
1	-1-6-0	7-10-0			15-8-0	17-2-0	
	1-6-0	7-10-0			7-10-0	1-6-0	
							Scale = 1 36 3

4x6 =

3 8.00 12 13 14 6 2x4 || 3x8 = 3x8 = 7-10-0 15-8-0

Plate Offs	Plate Offsets (X,Y)- [2:0-8-0,0-0-8], [4:0-8-0,0-0-7]			·-10-0					7-10-0			
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	0.17	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.20	6-12	>931	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MS	, ,					Weight: 65 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WEBS

REACTIONS. 2=661/0-3-8, 4=661/0-3-8

(lb/size)

(lb/size) 2=661/U-5-6, 4=061/3-5-5 Max Horz 2=200(LC 10) Max Uplift 2=273(LC 12), 4=273(LC 13) Max Grav 2=686(LC 19), 4=686(LC 20)

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

2-3=-759/304, 3-4=-758/304 TOP CHORD

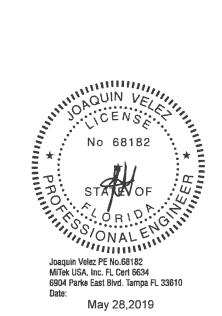
BOT CHORD 2-6=-108/607, 4-6=-108/607

WEBS 3-6=-27/365

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=21ft; Cat. II; Exp C; 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, with BCDL = 10.0psf.
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=273, 4=273.



May 28,2019

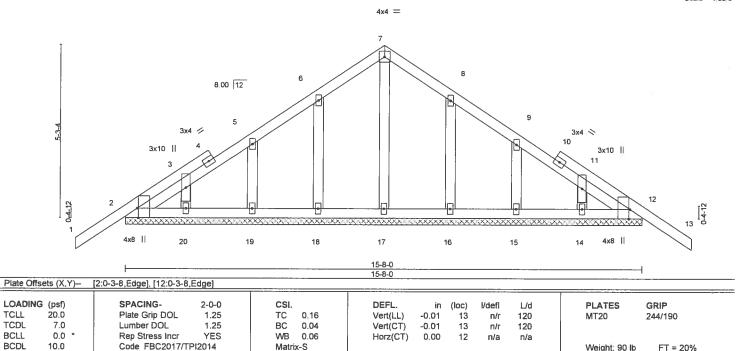


Structural wood sheathing directly applied or 4-1-8 oc purlins.

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

Job	Truss	Truss Type	Qty	Ply	SIMQUE RES	
1740941	T04G	Common Supported Gable	1	1		T17168531
				<u> </u>	Job Reference (optional)	
Builders FirstSource, Ja	acksonville, FL - 32244,		8	240 s May	13 2019 MiTek Industries, Inc. T	Tue May 28 10:57 04 2019 Page 1
			ID XwL2?ZzfDPn3	Solms\$Gt6	6zD0EV-ATqopk5BblE2K1CcA(ChxQx2ZHm4RwRsrPf6zGwzC_oj
1-6-0		7-10-0			15-8-0	17-2-0
1-6-0	1	7-10-0			7-10-0	1-6-0

Scale = 1 33 8



LUMBER-

OTHERS

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2 **BOT CHORD** 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 15-8-0.

(lb) - Max Horz 2=189(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 20, 14 except 18=-123(LC 12), 19=-112(LC 12),

16=-120(LC 13), 15=-116(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 18, 19, 20, 16, 15, 14

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=21ft; Cat. II; Exp C; 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 20, 14 except (jt=lb) 18=123, 19=112, 16=120, 15=116.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 12



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

May 28,2019

A WARNING - Verity design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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

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

available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Ply SIMOUE RES Qty Truss Truss Type Job T17168532 1740941 T05 Common Girder Job Reference (optional) 8 240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10 57 05 2019 Page 1 Builders FirstSource Jacksonville, FL - 32244. ID_XwL2?ZzfDPn3SolmsSGt66zD0EV-efNA046pMcMvyBnpkvCAz8ahLALCffO?dJrXoMzC_oi 15-8-0 7-10-0 3-7-5 Scale = 1:35 4 8.00 12 3x6 🗸 3x6 > 2 04-12 17 18 15 16 6 8 4x8 13 3x10 || 8x10 = 3x10 || 4x8 15-8-0 7-10-0 4-2-11 3-7-5 4-2-11 4-2-11 [1:Edge,0-0-2], [5:Edge,0-0-2], [7:0-5-0,0-5-0] Plate Offsets (X,Y)-**PLATES** GRIP L/d CSI. DEFI in (loc) I/defl SPACING-LOADING (psf) MT20 244/190 240 0.08 >999 TC 0.34 Vert(LL) TCLL 20.0 Plate Grip DOL 1,25 180 >999 1.25 BC 0.32 Vert(CT) -0.146-7 TCDL 7.0 Lumber DOL

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.03

5

n/a

LUMBER-

BCLL

BCDL

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

2x4 SP No.3 WEBS

0.0

10.0

(lb/size) 1=5593/0-3-8, 5=5075/0-3-8 REACTIONS.

Max Horz 1=168(LC 7)

Max Uplift 1=-2320(LC 8), 5=-2106(LC 9)

Rep Stress Incr

Code FBC2017/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown 1-2=-7166/2970, 2-3=-4973/2106, 3-4=-4973/2109, 4-5=-7175/2971 TOP CHORD

1-8=-2502/5940, 7-8=-2502/5940, 6-7=-2402/5948, 5-6=-2402/5948 BOT CHORD 3-7=-2203/5244, 4-7=-2328/1091, 4-6=-990/2436, 2-7=-2319/1087, 2-8=-986/2426 WEBS

NO

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-4-0 oc.
 - Bottom chords connected as follows: 2x8 2 rows staggered at 0-4-0 oc
- Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

WB 1:00

Matrix-MS

- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf, h=21ft, Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=2320, 5=2106.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1193 lb down and 507 lb up at 0-5-4, 1188 lb down and 513 lb up at 2-5-4, 1188 lb down and 513 lb up at 4-5-4, 1188 lb down and 513 lb up at 6-5-4, 1188 lb down and 513 lb up at 8-5-4, 1188 lb down and 513 lb up at 10-5-4, and 1188 lb down and 513 lb up at 12-5-4, and 1188 lb down and 513 lb up at 14-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

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

No 68182 No 68182 No 68182 Joaquin Velez PE No.68182 SO CENTE

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

May 28,2019

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



n/a

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

Structural wood sheathing directly applied or 4-5-8 oc purlins

Weight 206 lb

FT = 20%

6904 Parke East Blvd Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	SIMQUE RES
1740941	T05	Common Girder	1		T17168532
	<u> </u>			Z	Job Reference (optional)

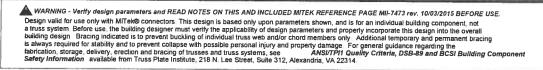
Builders FirstSource,

Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries. Inc. Tue May 28 10 57 05 2019 Page 2 ID XwL2?ZzfDPn3SolmsSGt66zD0EV-efNA046pMcMvyBnpkvCAz8ahLALCffO?dJrXoMzC_oi

LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 8=-1188(B) 13=-1193(B) 14=-1188(B) 15=-1188(B) 16=-1188(B) 17=-1188(B) 18=-1188(B) 19=-1188(B)





SIMQUE RES Job Truss Truss Type Qty T17168533 1740941 Т06 Roof Special Girder Job Reference (optional) Jacksonville, FL - 32244. 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10 57 07 2019 Page 1 Builders FirstSource. ID:XwL27ZzfDPn3SoImsSGt66zD0EV-a2VxRm73uDcdBVwBrKEe2Zf?uz?j7axH5dKdsFzC_og 17-2-0 12-0-13 4-5-13 4-0-1 3-6-5 Scale = 1 41.7 4x6 | B 00 12 2.00 12 4x6 = 5x6 = 3x8 N \mathbb{X} 6 17 8 5x8 = 6x8 = 10x12 3x8 II 3x8 || 4-0-11 4-0-11 Plate Offsets (X,Y)-[5:0-4-0,0-1-9], [6:0-5-8,0-1-8], [7:0-6-0,0-6-0], [8:0-3-8,0-3-12], [9:0-5-4,0-1-8] LOADING (psf) SPACING-CSI DEFL I/defl L/d **PLATES** GRIP 2-0-0 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.46 Vert(LL) 0.09 6-7 >999 240 MT20 TCDL 7.0 Lumber DOL 1.25 вс 0.39 Vert(CT) -0.156-7 >999 180 BCLL 0.0 Rep Stress Incr NO WB 0.93 Horz(CT) 0.03 5 n/a n/a Weight 259 lb

BRACING.

TOP CHORD

BOT CHORD

LUMBER-

BCDL

TOP CHORD 2x4 SP No.2

10.0

BOT CHORD 2x8 SP 2400F 2.0E

2x4 SP No.3 *Except* WEBS

1-9: 2x6 SP No.2, 1-8: 2x4 SP No.2

(lb/size) 5=5798/0-3-8, 9=6207/0-3-8 (reg. 0-3-11)

Code FBC2017/TPI2014

Max Horz 9=-237(LC 9)

Max Uplift 5=-2404(LC 9), 9=-2575(LC 8)

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

TOP CHORD

REACTIONS.

1-2-4191/1744, 2-3-4656/1998, 3-4-4711/1983, 4-5-7691/3179, 1-9-4459/1868

BOT CHORD

8-9=-189/278, 7-8=-1685/4173, 6-7=-2549/6374, 5-6=-2549/6374

2-8=-1659/729, 2-7=-508/276, 3-7=-2052/4883, 4-7=-3128/1454, 4-6=-1324/3259. WEBS

1-8=-2249/5415

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

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

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

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

Matrix-MS

- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=21ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone, Lumber DOL=1.60 plate grip DOL=1.60
- 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) WARNING: Required bearing size at joint(s) 9 greater than input bearing size
- 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=2404, 9=2575
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1205 lb down and 509 lb up at 0-2-12, 1197 lb down and 517 lb up at 2-5-4, 1197 lb down and 517 lb up at 4-5-4, 1197 lb down and 517 lb up at 6-5-4, 1197 lb down and 517 lb up at 8-5-4, 1197 lb down and 517 lb up at 10-5-4, 1197 lb down and 517 lb up at 12-5-4, and 1180 lb down and 509 lb up at 14-5-4, and 1183 lb down and 506 lb up at 16-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE



FT = 20%

Structural wood sheathing directly applied or 4-1-11 oc purlins,

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

except end verticals

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

May 28,2019



Job	Truss	Truss Type	Qty	Ply	SIMQUE RES	
1740941	T06	Roof Special Girder	1	2		T17168533
					Job Reference (optional)	

Builders FirstSource,

Jacksonville, FL - 32244

8 240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10 57 07 2019 Page 2 ID XwL2?ZzfDPn3SolmsSGt66zD0EV-a2VxRm73uDcdBVwBrKEe2Zf?uz?j7axH5dKdsFzC_og

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=54, 2-3=54, 3-5=54, 5-9=20

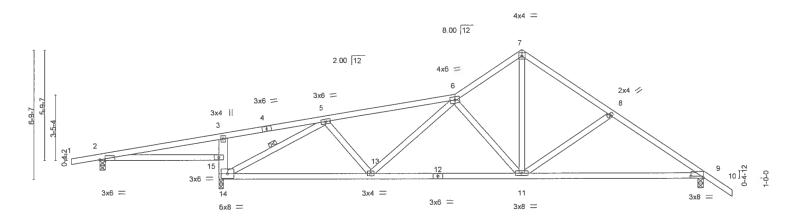
Concentrated Loads (lb)

Vert: 9=-1205(F) 11=-1183(F) 12=-1197(F) 13=-1197(F) 14=-1197(F) 15=-1197(F) 16=-1197(F) 17=-1197(F) 18=-1180(F)



Job Truss Truss Type Qty SIMQUE RES T17168534 T07 1740941 Roof Special Job Reference (optional) Jacksonville, FL - 32244 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10 57 08 2019 Page 1 Builders FirstSource, ID_XwL2?ZzfDPn3SolmsSGl66zD0EV-2E3Jf68ifXkUpeVOP2ltbnC9ENGDs9oRJH4BPhzC_of 26-8-15 4-7-15 33-2-0 1-6-0 11-9-14 5-7-6 18-6-11 22-1-0 3-6-5 31-8-0

Scale = 1 58.3



	-		40	14-2-1			2-1-0	+		31-8-0 9-7-0	
Diete Off	-4- (V V)		0-1-8	7-10-1			10-15			9-7-0	
Plate Un	sets (X,Y)-	[2:0-3-5,Edge], [9:0-8-0,	0-0-11]	-T-		1				17	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (lo	c) i/defi	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	0.09 15-1	8 >865	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.36 11-2	1 >841	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.03	9 n/a	n/a		
BCDL	10.0	Code FBC2017/7	PI2014	Matr	ix-MS					Weight: 156 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

3-14: 2x6 SP No.2

WEBS 2x4 SP No.3

REACTIONS. (lb/size) 2=242/0-3-8, 14=1268/0-3-0, 9=995/0-3-8

Max Horz 2=214(LC 11)

Max Uplift 2=-258(LC 8), 14=-568(LC 12), 9=-390(LC 13) Max Grav 2=252(LC 23), 14=1268(LC 1), 9=995(LC 1)

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

3-5=-144/250, 5-6=-1390/758, 6-7=-1072/608, 7-8=-1099/592, 8-9=-1319/669 TOP CHORD

2-15=-273/190, 14-15=-424/453, 3-15=-336/303, 13-14=-557/1208, 11-13=-554/1352, BOT CHORD

9-11=-429/1068

5-14=-1576/835, 5-13=0/321, 6-11=-780/535, 7-11=-503/926, 8-11=-370/290 WEBS

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=21ft; Cat, II, Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone, porch left exposed;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.
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=258, 14=568, 9=390.



Structural wood sheathing directly applied or 3-11-2 oc purlins.

5-14

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

1 Row at midpt

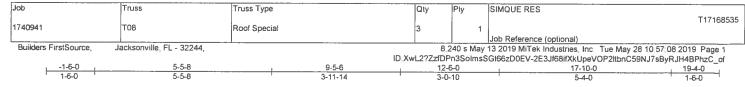
6904 Parke East Blvd. Tampa FL 33610 Date:

May 28,2019

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ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314





Scale = 1 34 5

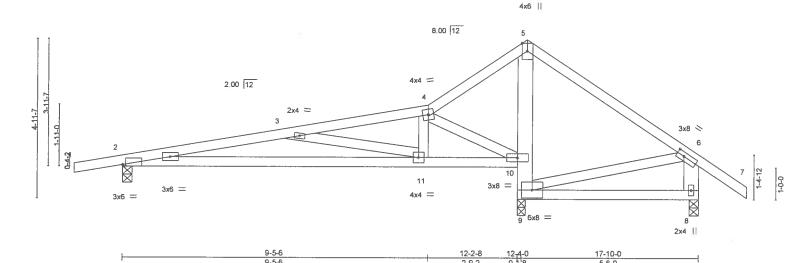


Plate Offsets (X,Y)- [2:0	-1-1,Edge], [6:0-2-12,0-1-8]		2-0-2 0-1-0 3-0-0
COADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2017/TPI2014	CSI. TC 0.81 BC 0.57 WB 0.31 Matrix-MS	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) 0.30 11-14 >499 240 MT20 244/190 Vert(CT) 0.26 11-14 >584 180 Horz(CT) 0.01 9 n/a n/a Weight: 94 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

5-9: 2x6 SP No.2

WEBS 2x4 SP No.3 *Except*

6-8: 2x6 SP No.2

REACTIONS. (lb/size) 2=431/0-3-8, 9=1025/0-3-0, 8=22/0-3-8

Max Horz 2=176(LC 11)

Max Uplift 2=-378(LC 8), 9=-510(LC 8), 8=-158(LC 23) Max Grav 2=432(LC 23), 9=1025(LC 1), 8=223(LC 11)

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

TOP CHORD 2-3=-905/1251, 3-4=-184/324, 4-5=-563/505, 5-6=-434/418 BOT CHORD 2-11=-1178/892, 9-10=-894/1106, 5-10=-652/692

WEBS 3-11=-826/1027, 4-11=-623/381, 4-10=-499/863, 6-9=-400/541

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=21ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical right exposed; porch left exposed; 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.
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=378, 9=510, 8=158.



Structural wood sheathing directly applied or 5-7-0 oc purlins,

Rigid ceiling directly applied or 4-5-3 oc bracing.

except end verticals

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

May 28,2019



Job Truss Truss Type Qty SIMOUE RES T17168536 T09 1740941 ROOF SPECIAL Job Reference (optional) Jacksonville, FL - 32244 8 240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10:57:09 2019 Page 1 Builders FirstSource ID.XwL2?ZzfDPn3SoImsSGt66zD0EV-XRdhsS9KQrsLRo4azlH67_lJyneibd9aYxpkx8zC_oe 8-10-0 16-2-0 7-4-0 17-8-0 7-0-8 4x6 = Scale = 1 41.3 8.00 12 3x6 / 3x8 🗢 2x4 || 6.00 12 X 2x4 II 2x4 || 3x6 = 3x4 || 5x6 = 1-9-8 5-9-8 8-10-0 16-2-0 1-9-8 Plate Offsets (X,Y)-[5:0-2-8,0-1-8] SPACING-DEFL **PLATES** GRIP LOADING (psf) 2-0-0 I/def L/d TCLL 20.0 Plate Grip DOL 1.25 TC 0.62 Vert(LL) -0.11 8-9 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.61 Vert(CT) -0.24 8-9 >813 180 0.0 Rep Stress Incr YES WB 0.37 Horz(CT) 0.11 **BCLL** BCDL 10.0 Code FBC2017/TPI2014 Matrix-MS Weight: 99 lb FT = 20% LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 3-8-15 oc purlins,

BOT CHORD

except end verticals.

7-11-0 oc bracing: 8-9

Rigid ceiling directly applied or 7-7-12 oc bracing. Except:

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 9-10: 2x4 SP No.3

WEBS 2x4 SP No.3 "Except"

5-7: 2x6 SP No.2

REACTIONS. (lb/size) 2=669/0-3-8, 7=684/0-3-8

Max Horz 2=246(LC 11)

Max Uplift 2=-282(LC 12), 7=-271(LC 13)

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

2-3=-1126/490, 3-4=-1310/366, 4-5=-1344/382, 5-7=-717/466 TOP CHORD

BOT CHORD 2-9=-542/1063, 8-9=-563/1154, 7-8=-225/464

3-9-503/388, 3-8-287/362, 4-8-173/1057, 5-8-233/1004 WEBS

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=21ft, Cat. II; Exp C; Encl., GCpi=0.18, MWFRS (envelope) gable end zone and C-C Exterior(2) zone, end vertical right exposed;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.
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
- 6) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=282, 7=271.



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

May 28,2019

🔼 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 Bratching indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see MSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type SIMQUE RES Qtv T17168537 1740941 GABLE T09G ob Reference (optional) Builders FirstSource, Jacksonville, FL - 32244 8 240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10 57:10 2019 Page 1 ID:XwL2?ZzfDPn3SolmsSGt66zD0EV-?dB34nAyB8_C2yfmXToLgCHVLB0QK3zknbZlTazC_od 8-10-0 17-8-0 7-0-8

Scale = 1 40.2

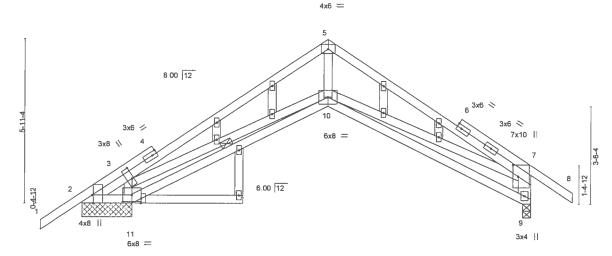


Plate Offsets (X,Y)-[2:0-3-8,Edge], [3:0-5-0,0-0-12], [7:0-5-0,0-2-4], [11:0-2-0,0-0-2], [11:0-4-0,0-2-14] LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defl I /d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.58 Vert(LL) -0.109-10 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 ВĊ 0.45 -0.21 Vert(CT) 9-10 >812 180 **BCLL** 00 Rep Stress Incr WB 0.40 YES Horz(CT) 0.11 9 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-MS Weight: 112 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

8-10-0

3-0-8

16-2-0

except end verticals.

6-0-0 oc bracing: 10-11

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

Rigid ceiling directly applied or 9-6-4 oc bracing. Except:

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

11-20: 2x4 SP No.3

WEBS 2x4 SP No.3 *Except*

7-9: 2x6 SP No.2

OTHERS 2x4 SP No.3

REACTIONS. (lb/size) 2=-182/1-9-8, 11=959/1-9-8, 9=576/0-3-8, 2=-182/1-9-8

Max Horz 2=230(LC 11)

Max Uplift 2=-288(LC 19), 11=-587(LC 12), 9=-242(LC 13), 2=-182(LC 1)

Max Grav 2=236(LC 12), 11=1040(LC 19), 9=576(LC 1)

1-9-8

1-9-8

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

TOP CHORD 3-5=-1041/158, 5-7=-1049/161, 7-9=-721/473

BOT CHORD 10-11=-326/256, 9-10=-382/739

WEBS 3-11=-1031/699, 3-10=-185/1096, 5-10=0/750, 7-10=-170/561

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=21ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

4-0-0

- 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 studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=288, 11=587, 9=242, 2=288.



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

May 28,2019



SIMQUE RES Job Truss Truss Type Qty T17168538 SCISSORS 1740941 T10 Job Reference (optional) Jacksonville, FL - 32244, 8 240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10 57 11 2019 Page 1 Builders FirstSource $ID.XwL2?ZzfDPn3SoImsSGt66zD0EV-TpIRH7AaxS63g6Ey4AJaDPqd_aN83X5t0Flr?0zC_occludered and the state of the sta$ -1-6-0 14-8-0 7-4-0 1-6-0 4x6 = Scale = 1 39 3 3 8.00 12 4x12 🥢 6x8 = 4x12 < 1-4-12 6.00 12 X 3x4 | 3x4 || 14-8-0 Plate Offsets (X,Y)-[2:0-5-4,0-2-0] LOADING (psf) SPACING-2-0-0 CSI DEFL l/defl L/d**PLATES** GRIP 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.71 Vert(LL) -0.09 6-7 >999 240 MT20 TCDL 7.0 Lumber DOL 1.25 ВC 0.42 Vert(CT) -0.206-7 >862 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.28 Horz(CT) 0.09 5 n/a n/a FT = 20% BCDL 10,0 Code FBC2017/TPI2014 Matrix-MS Weight: 84 lb BRACING. LUMBER-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 3-5-15 oc purlins, **BOT CHORD** 2x4 SP No.2 except end verticals. 2x4 SP No.3 *Except* BOT CHORD WEBS Rigid ceiling directly applied or 9-7-15 oc bracing. 2-7.4-5: 2x6 SP No.2

(lb/size) 7=625/0-3-8, 5=520/0-3-8

Max Horz 7=235(LC 9)

Max Uplift 7=-254(LC 12), 5=-192(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 2-3=-1106/447, 3-4=-1110/438, 2-7=-711/453, 4-5=-570/338

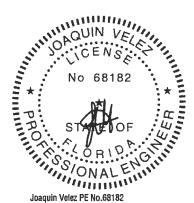
BOT CHORD 6-7=-369/480, 5-6=-173/292

WEBS 3-6=-202/806, 2-6=-23/649, 4-6=-221/808

NOTES-

REACTIONS.

- 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=21ft; Cat. II; Exp C; Encl., GCpi=0.18, MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Bearing at joint(s) 7, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 7=254, 5=192.



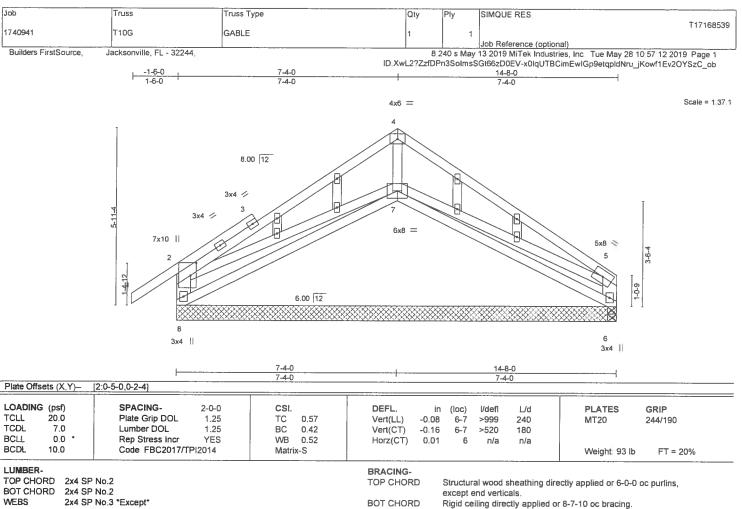
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

May 28,2019

AMARNING - Verity design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 verity 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 trusse systems, see ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





WEBS 2x4 SP No.3 *Except*

2-8,5-6: 2x6 SP No.2

OTHERS 2x4 SP No.3

REACTIONS. All bearings 14-8-0.

(lb) -Max Horz 8=215(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) except 8=-185(LC 12), 6=-166(LC 13), 7=-143(LC 12)

Max Grav All reactions 250 lb or less at joint(s) except 8=357(LC 1), 6=289(LC 20), 6=252(LC 1), 7=553(LC 19)

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

TOP CHORD 2-8=-524/451, 5-6=-367/283 BOT CHORD

7-8=-466/602, 6-7=-222/353 4-7=-281/159, 2-7=-462/474, 5-7=-311/254 WEBS

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=21ft; Cat. II; Exp C; Encl., GCpi=0.18, MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 8, 166 lb uplift at joint 6 and 143 lb uplift at joint 7.



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

May 28,2019

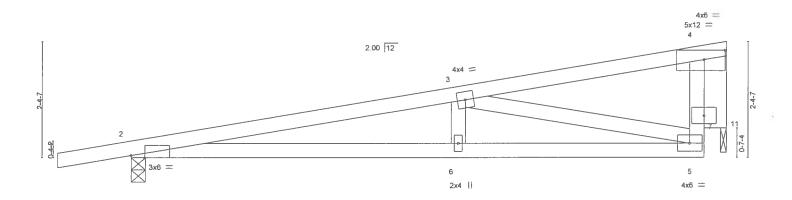
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 10/03/2015 REFORE USE Design valid for use only with MTER® connectors. This design is based only upon parameters and mindividual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building designer must verify the applicability of design parameters and property incorporate this design into the overall building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Braicing 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 ucliapse with possible personal injury and property damage. For general guidance regarding the tabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITYPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N Lee Street, Suite 312, Alexandria, VA 22314



Job	Truss	Truss Type	Qty	IPIy	SIMQUE RES.	
					T17168540	
1740941	T11	Monopitch	18	1		
	<u> </u>				Job Reference (optional)	
Builders FirstSource,	Jacksonville, FL - 32244,		8.2	240 s May	13 2019 MiTek Industries, Inc. Tue May 28 10:57 12 2019 Page 1	
		ı	D XwL2?ZzfDPn	3SolmsSG	it66zD0EV-x0lqUTBCimEwlGp9etqpidNpx_hAowk1Ev2OYSzC_ob	
-1-6-0		6-8-0	1		12-2-0	
1-6-0		6-8-0			5-6-0	

Scale = 1.22.7



				6-8-0							2-2-0	
				6-8-0						5	-6-0	
Plate Offse	ets (X,Y)-	[2:0-3-5,Edge], [4:0-5-3,0	-2-5]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL	20,0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	0.22	6-10	>649	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	0.19	6-10	>767	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	-0.02	11	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matrix	k-MS						Weight: 52 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

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

2x6 SP No.2 OTHERS

REACTIONS. (lb/size) 2=533/0-3-8, 11=404/0-1-8

Max Horz 2=114(LC 8)

Max Uplift 2=-446(LC 8), 11=-333(LC 8)

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

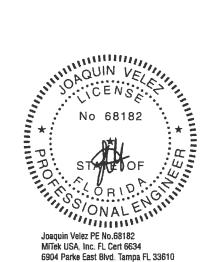
2-3=-1326/1979, 5-7=-553/315, 4-7=-553/315 TOP CHORD

2-6=-2034/1295, 5-6=-2034/1295 **BOT CHORD**

WEBS 3-6=-374/242, 3-5=-1174/1849, 4-11=-440/679

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=21ft; Cat. II; Exp C; 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
- 5) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 446 lb uplift at joint 2 and 333 lb uplift at joint 11.



Structural wood sheathing directly applied or 4-5-13 oc purlins,

Rigid ceiling directly applied or 3-5-14 oc bracing.

except end verticals.

6904 Parke East Blvd. Tampa FL 33610 Date:

May 28,2019

A WARNING - Verity design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 stablifty 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

ANSITERI Quality Criteria, DSB-89 and BCSI Building Component Safety Information. available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Qty SIMQUE RES Truss Truss Type T17168541 1740941 T12 Monopitch Job Reference (optional) Jacksonville, FL - 32244 8.240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10 57 13 2019 Page 1 ID.XwL2?ZzfDPn3SolmsSGt66zD0EV-PCsCipCqT3MmwQOLCbL2Iqv03O37XPhATZny4vzC_oa Builders FirstSource, 1-6-0 Scale 3/4"=1" 4x6 = 3 4.00 12 3x6 = 0.4-4 4x4 || 6-2-0 Plate Offsets (X,Y)-[2:0-0-11,Edge], [4:Edge,0-3-8] LOADING (psf) SPACING-CSL DEFI 2-0-0 (loc) I/defl L/d **PLATES** GRIP Plate Grip DOL TCLL 20.0 TC 0.54 1.25 Vert(LL) 0.07 4-R >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.32 Vert(CT) 0.06 4-8 >999 180 Rep Stress Incr BCLL 0.0 YES WB 0.40 Horz(CT) -0.00 n/a n/a Code FBC2017/TPI2014 BCDL 10.0 Matrix-MR Weight: 26 lb FT = 20%LUMBER-BRACING-

TOP CHORD

BOT CHORD

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

2x4 SP No.3 WEBS

OTHERS 2x4 SP No.3

REACTIONS. (lb/size) 2=316/0-3-8, 9=189/0-1-8 Max Horz 2=129(LC 8)

Max Uplift 2=-266(LC 8), 9=-165(LC 8)

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

BOT CHORD 2-4=-299/158

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4,2psf; BCDL=3,0psf; h=21ft; Cat. II; Exp C; 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 266 lb uplift at joint 2 and 165 lb uplift at



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

May 28,2019

A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL7473 rev. 10/03/2015 REFORE USE Design valid for use only with MTEK® connectors. This design is based only upon parameters and individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design in the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly design. Bracing indicated its to prevent localizes 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/TPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Saite 312, Alexandria, VA 22314



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

Rigid ceiling directly applied or 9-10-15 oc bracing.

except end verticals

6904 Parke East Blvd Tampa, FL 36610

Truss Truss Type Qty SIMOUE RES T17168542 1740941 T12G GABLE Job Reference (optional) Builders FirstSource, Lake City, FL 32055 8.240 s Apr 19 2019 MiTek Industries. Inc. Tue May 28 12 37 18 2019 Page 1 ID XwL2?ZzfDPn3SolmsSGI66zD0EV-PM95m585HZ9QhFhRSN4fF02Msw5W8hAVDti??zC_D?

6-2-0 6-2-0 -1-6-C 1-6-0

Scale = 1:14.7

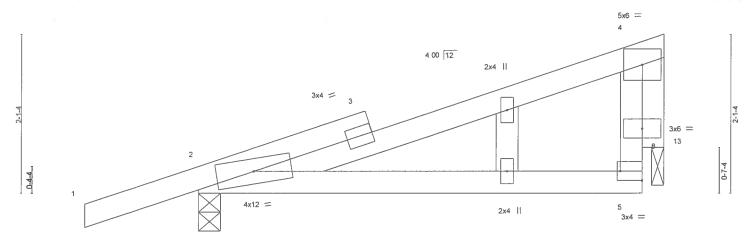


Plate Offsets (X,Y)-	Plate Offsets (X,Y)— [5:Edge,0-1-8], [7:1-8-9,0-4-14]										
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES	CSI. TC 0.40 BC 0.24 WB 0.36	DEFL. in (loc) I/defl L/d Vert(LL) 0.05 5-11 >999 240 Vert(CT) 0.04 5-11 >999 180 Horz(CT) -0.00 2 n/a n/a	PLATES GRIP MT20 244/190							
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MR		Weight 28 lb FT = 20%							

BRACING-TOP CHORD

BOT CHORD

Sheathed or 6-0-0 oc purlins, except end verticals.

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

LUMBER-

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

OTHERS 2x4 SP No.3

REACTIONS. (lb/size) 2=320/0-3-8, 13=182/0-2-0

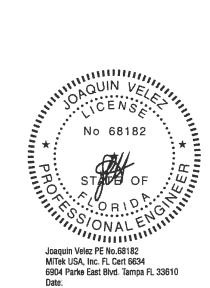
Max Horz 2=115(LC 8)

Max Uplift 2=-276(LC 8), 13=-154(LC 8)

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

BOT CHORD 2-5=-307/163

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=21ft; Cat. II; Exp C; 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) 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.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.
- 3) Gable studs spaced at 2-0-0 oc.
- 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) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 276 lb uplift at joint 2 and 154 lb uplift at joint 13.



6904 Parke East Blvd. Tampa FL 33610 Date

May 28,2019

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Job Truss SIMQUE RES Truss Type Qty T17168543 1740941 T13 Monopitch Job Reference (optional) Builders FirstSource Jacksonville, FL - 32244. 8 240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10 57 14 2019 Page 1

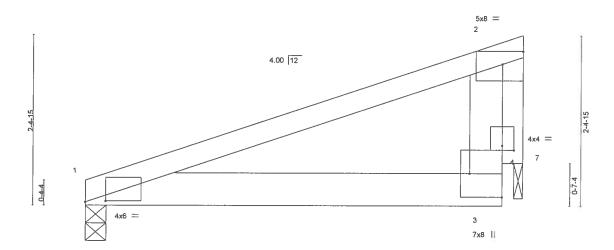
ID.XwL2?ZzfDPn3SolmsSGt66zD0EV-tOQav9DSENUdXazXmlsHq2SAAoLEGwQJiDXVcLzC_oZ

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

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

except end verticals

Scale = 1 15 7



6-2-0

Plate Off	sets (X,Y)~	[1:0-3-7,0-0-3], [2:Edge,0	-2-3], [3:Edge	,0-5-8], [4:0-2	-0,0-0-12]							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	0.06	3-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.08	3-6	>960	180		2
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.18	Horz(CT)	-0.00	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TI	PI2014	Matri	x-MR	, ,					Weight: 29 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x6 SP No.2

OTHERS 2x4 SP No.3

(lb/size) 1=674/0-3-8, 7=580/0-1-8

Max Horz 1=98(LC 4)

Max Uplift 1=-410(LC 4), 7=-380(LC 4) Max Grav 1=717(LC 18), 7=611(LC 18)

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

TOP CHORD 1-2=-594/319, 3-4=-347/650, 2-4=-294/618

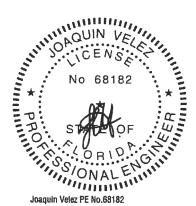
BOT CHORD 1-3=-348/548 **WEBS** 2-7=-611/347

- 1) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=21ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone, porch left and right exposed, Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7,
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 410 lb uplift at joint 1 and 380 lb uplift at
- 8) Girder carries tie-in span(s): 10-0-0 from 0-0-0 to 5-10-8
- 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: 1-2=-54, 1-3=-168(F=-148)



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

May 28,2019

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ANSUTP1 Quality Criteria, DSB-89 and BCSI Building Component Sefety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



SIMOUE RES Job Truss Truss Type Qty Ply T17168544 1740941 T14 Scissor Job Reference (optional) 8 240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10 57 15 2019 Page 1 ID XwL2?ZzfDPn3SolmsSGi66zD0EV-Lb_y7VD5?hdU9jYkJ0OWNF?KICes?CJTxsG28nzC_oY Builders FirstSource. Jacksonville, FL - 32244. 25-2-0 1-6-0 1-6-0 11-10-0 6-0-12 5-9-4 5-9-4 6-0-12

4x6 || 8.00 12 5x6 4 5x6 7x8 || 2x4 || 2x4 5.50 12 3x8 >

	6-0-12	11-10-0	1/-/-4	1 23-8-0	
	6-0-12	5-9-4	5-9-4	6-0-12	<u>'</u>
Plate Offsets (X,Y)-	[2:0-2-8,0-1-8], [3:0-3-0,0-3-0], [5:0-3-0,0)-3-0], [6:0-2-8,0-1-8]			
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2017/TPI2014	CSI. TC 0.66 BC 0.82 WB 0.84 Matrix-MS	DEFL. in (loc) Vert(LL) -0.26 8-9 Vert(CT) -0.49 8-9 Horz(CT) 0.50 6	l/defl L/d >999 240 >579 180 n/a n/a	PLATES GRIP MT20 244/190 Weight: 134 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WEBS

REACTIONS. (lb/size) 2=957/0-5-8, 6=957/0-5-8

Max Horz 2=-286(LC 10)

Max Uplift 2=-382(LC 12), 6=-382(LC 13)

3x8 =

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

TOP CHORD **BOT CHORD**

2-3=-2948/1157, 3-4=-2358/679, 4-5=-2358/719, 5-6=-2894/1079

2-10=-1084/2792, 9-10=-1111/2870, 8-9=-836/2610, 6-8=-812/2532

4-9=-594/2247, 5-9=-751/688, 3-9=-778/608 WEBS

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=21ft; Cat. II; Exp C; 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.
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 382 lb uplift at joint 2 and 382 lb uplift at



Scale = 1 54 9

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May 28,2019

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ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314



Structural wood sheathing directly applied or 2-9-5 oc purlins.

Rigid ceiling directly applied or 6-10-5 oc bracing.

Job	Truss		Truss Type			Qty	Ply	SIMQUE RES		
1740941	T14G		GABLE			2	1			T17168545
L								Job Reference (optional)		
Builders FirstSource,	Jacksonville, F	L - 32244,				8.2	40 s May	13 2019 MiTek Industries	Inc. Tue May 28 10 57 1	6 2019 Page 1
					ID.Xv	L2?ZzfDI	n3Solm:	SGt66zD0EV-pnYKKrEjm	ILnt7wtjvlwTXZ2byhkeyo	9W0chEzC oX
	-1-6-0	6-0-12		11-10-0		17-7	-4	23-8-0	, 25-2-0	_
	1-6-0	6-0-12		5-9-4	,	5-9	4	6-0-12	1-6-0	

Scale = 1:54.0

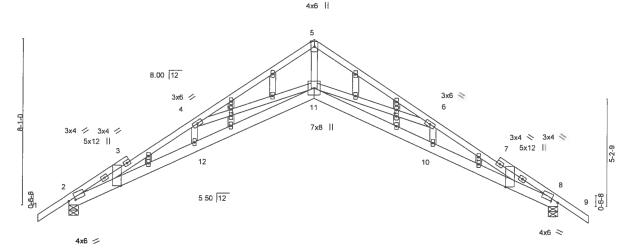


Plate Offsets (X,Y	6-0-12 - [2:0-3-15,0-0-14], [2:0-9-0,Edge], [8:0-3-1	5-9-4 5,0-0-14], [8:0-9-0,Edge], [15:0-1	5-9-4 -11.0-1-01. [24:0-1-11.0-1-0]	6-0-12	
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2017/TPI2014	CSI. DI TC 0.43 VG BC 0.91 VG	EFL. in (loc) I/de ert(LL) 0.38 11-12 >73 ert(CT) -0.70 10-11 >39 orz(CT) 0.68 8 n/	efi L/d PLAT 30 240 MT20 95 180 /a n/a	

BRACING-

TOP CHORD

BOT CHORD

17-7-4

22 8 0

Structural wood sheathing directly applied or 3-10-1 oc purlins.

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

11_10_0

LUMBER-

TOP CHORD 2x4 SP M 31 BOT CHORD 2x6 SP No.2

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

REACTIONS. (lb/size) 2=952/0-5-8, 8=952/0-5-8

Max Horz 2=275(LC 11)

Max Uplift 2=-387(LC 12), 8=-387(LC 13)

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

TOP CHORD 2-4=-3249/1286, 4-5=-2604/733, 5-6=-2604/774, 6-8=-3229/1194

BOT CHORD 2-12=-1220/3160, 11-12=-1263/3273, 10-11=-981/3035, 8-10=-941/2937

6-0-12

WEBS 5-11=-648/2514, 6-11=-933/767, 4-11=-963/692

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=21ft, Cat. II; Exp C; 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 studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads,
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 387 lb uplift at joint 2 and 387 lb uplift at joint 8.



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

May 28,2019



SIMOUE RES Job Truss Truss Type Qty T17168546 1740941 T15 Scisso Job Reference (optional) Jacksonville, FL - 32244. 8 240 s May 13 2019 MiTek Industries, Inc. Tue May 28 10 57:17 2019 Page 1 ID XwL27ZzfDPn3SolmsSGt66zD0EV-lz6jYBFLXItCO1h6RRQ_Sg4ff?P?T8YmOAl9DgzC_oW Builders FirstSource. 25-2-0 11-10-0 6-0-12 5-9-4 5-9-4 6-0-12 1-6-0 Scale = 1:54.9 4x6 | 8.00 12 5x6 / 5x6 < 7x8 | 2x4 2x4 || 5 50 12 4x8 > 4x8 ⋍ 6-0-12 11-10-0 5-9-4 6-0-12 [2:0-2-5,0-2-0], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-2-5,0-2-0] Plate Offsets (X,Y)-LOADING (psf) SPACING-DEFL PLATES GRIP 2-0-0 CSI. in (loc) I/defl 1 /d TC 9-10 244/190 TCLL 20.0 Plate Grip DOL 1.25 0.76 Vert(LL) 0.32 >882 240 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.45 Vert(CT) -0.578-9 >502 180 0.0 Rep Stress Incr WB 0.73 0.55 BCLL NO Horz(CT) 6 n/a n/a Code FBC2017/TPI2014 FT = 20% BCDL Matrix-MS Weight: 134 lb 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP M 31 "Except"

1-3,5-7: 2x4 SP No.2

BOT CHORD 2x6 SP M 26

2x4 SP No.3 *Except* WEBS

4-9: 2x4 SP No.2

REACTIONS. (lb/size) 2=1312/0-5-8, 6=1312/0-5-8

Max Horz 2=-286(LC 10)

Max Uplift 2=554(LC 12), 6=554(LC 13)

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

2-3=-4117/1696, 3-4=-3292/1132, 4-5=-3322/1172, 5-6=-4009/1576 TOP CHORD 2-10=-1568/3870, 9-10=-1611/3985, 8-9=-1295/3674, 6-8=-1256/3560 BOT CHORD

4-9=-1092/3324, 5-9=-892/758, 3-9=-919/677 WEBS

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=21ft; Cat. II; Exp C; 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.
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
- 6) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 554 lb uplift at joint 2 and 554 lb uplift at
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-7=-54, 9-11=-50(F=-30), 9-14=-50(F=-30)



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May 28,2019

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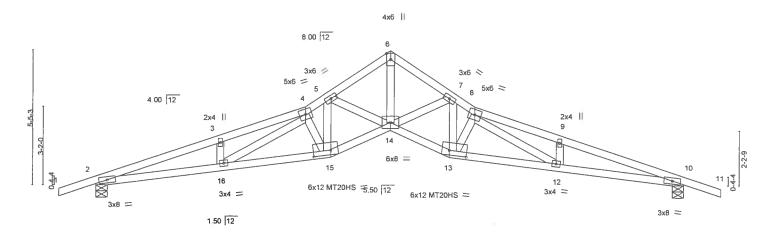
Structural wood sheathing directly applied or 2-4-4 oc purlins.

Rigid ceiling directly applied or 7-8-13 oc bracing.

6904 Parke East Blvd Tampa, FL 36610

Job		Truss	Truss Type				Qty	Ply	SIMQUE RES.		
1740941		T16	Roof Special				9	1			T17168547
			l .						Job Reference (optional)		
Builders F	irstSource, J	acksonville, FL - 32244					8	240 s May	13 2019 MiTek Industries	Inc. Tue May 28 10	57 19 2019 Page 1
						ID XwL27	ZzfDPn3	SolmsSGt	66zD0EV-EMETysHb3v7w	eLrVYsSSX591Ap?qx	2H2rUEGIYzC_oU
	-1-6-0	5-0-0	8-5-3	9-5-8	11-10-0	14	4-2-8	15-2-13,	18-8-0	23-8-0	25-2-0
	1-6-0	5-0-0	3-5-3	1-0-5	2-4-8	2	-4-8	1-0-5	3-5-3	5-0-0	1-6-0

Scale = 1 44 9



	-	5-0-0 5-0-0		9-5-8 4-5-8	+	11-10-0 2-4-8	14-2-			18-8-0 4-5-8		23-8-0 5-0-0	
Plate Offse	ets (X,Y)-	[13:0-8-8,0-2-4], [15:0-8-8	3,0-2-4]	4-5-6		2-4-0	2-4-0	·		4-5-0		5-0-0	
OADING	(psf)	SPACING-	2-0-0	CSI.			DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL	20.0	Plate Grip DOL	1.25	TC	0.57		/ert(LL)	0.37	14	>766	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.81		/ert(CT)	-0.64	14	>444	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.72		Horz(CT)	0.27	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TF	PI2014	Matri	x-MS		, , ,					Weight: 117 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

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

2-15,10-13: 2x4 SP M 31

2x4 SP No.3 *Except* WEBS

6-14: 2x4 SP No.2

REACTIONS. (lb/size) 2=1312/0-5-8, 10=1312/0-5-8

Max Horz 2=121(LC 12)

Max Uplift 2=-573(LC 12), 10=-573(LC 13)

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

TOP CHORD 2-3=-4315/2211, 3-4=-4284/2278, 4-5=-3483/1803, 5-6=-3034/1505, 6-7=-3034/1505,

7-8=-3483/1807, 8-9=-4284/2289, 9-10=-4315/2221 BOT CHORD 2-16=-2005/4086, 15-16=-1682/3564, 14-15=-1468/3230, 13-14=-1472/3230,

12-13=-1689/3564, 10-12=-2035/4086

WEBS 6-14=-1556/3171; 7-14=-487/370, 7-13=-258/380, 8-13=-1221/693, 8-12=-419/702,

5-14=-487/375, 5-15=-260/380, 4-15=-1221/690, 4-16=-421/702

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=21ft, Cat. II; Exp C; 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) All plates are MT20 plates unless otherwise indicated.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 573 lb uplift at joint 2 and 573 lb uplift at joint 10.
- 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: 1-4--54, 4-6--54, 6-8--54, 8-11--54, 15-17--50(F--30), 14-15--50(F--30), 13-14--50(F--30), 13-20--50(F--30)



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

May 28,2019

A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design, Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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

Rigid ceiling directly applied or 4-10-14 oc bracing.

Job	Truss	Truss Type	Qty	Ply	SIMQUE RES		
			ŀ			T17168548	
1740941	T16G	GABLE	2	1			
					Job Reference (optional)		
Builders FirstSource,	Jacksonville, FL - 32244	•	8	240 s May	13 2019 MiTek Industries, Inc.	Tue May 28 10 57 20 2019 Page 1	
		ID XwL2?ZzfDPn3SoImsSGi66zD0EV-iYnrACHDqDFnFVQh6Zzh4Ji9GD02gSMC48_pq?zC_oT					

11-10-0

15-2-13

18-8-0

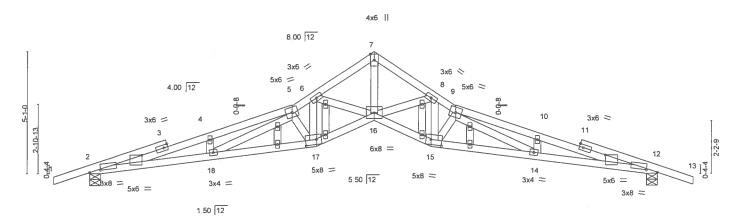
Structural wood sheathing directly applied or 2-2-8 oc purlins.

Rigid ceiling directly applied or 5-8-8 oc bracing.

14-2-8

Scale = 1 46 4

23-8-0 5-0-0



		5-0-0		9-5-8			-2-8	18-8		23-8-0	
		5-0-0	'	4-5-8		2-4-8 2-	4-8	4-5-	8	5-0-0	
Plate Offse	ets (X,Y)-	[2:0-5-9,0-0-8], [2:2-2-0,E	dge], [12:0-5-9	,0-0-8], [12:2	2-2-0,Edge],	[15:0-5-8,0-2-8], [17:0-5-8,0-2	2-8]			
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.		oc) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	0.39 17-	18 >713	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.72	16 >389	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.27	12 n/a	n/a		
BCDL	10.0	Code FBC2017/TF	PI2014	Matri	x-MS					Weight: 126 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No.2 *Except* TOP CHORD

-1-6-0

1-6-0

2-5.9-12: 2x4 SP M 31

BOT CHORD 2x4 SP M 31 *Except* 16-17,15-16: 2x4 SP No.2

WEBS 2x4 SP No.3

2x4 SP No.3 OTHERS

REACTIONS. (lb/size) 2=952/0-5-8, 12=952/0-5-8

Max Horz 2=113(LC 13)

Max Uplift 2=-404(LC 12), 12=-404(LC 13)

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

2-4=-3424/1692, 4-5=-3492/1783, 5-6=-2754/1356, 6-7=-2345/1083, 7-8=-2345/1083, TOP CHORD

8-9=-2754/1363, 9-10=-3492/1797, 10-12=-3424/1706

BOT CHORD 2-18=-1546/3322, 17-18=-1302/2925, 16-17=-1080/2562, 15-16=-1088/2562,

14-15=-1314/2925, 12-14=-1582/3322 WEBS 7-16=-1089/2410, 8-16=-429/336, 8-15=-189/263, 9-15=-987/549, 9-14=-323/550,

10-14-328/258, 6-16-429/343, 6-17-192/263, 5-17-987/545, 5-18-326/550,

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=21ft; Cat. II; Exp C; 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 studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 404 lb uplift at joint 2 and 404 lb uplift at joint 12.



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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



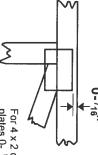
6904 Parke East Blvd Tampa, FL 36610

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE



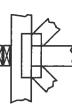
width measured perpendicular to slots. Second dimension is the length parallel to slots. The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



number where bearings occur.

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

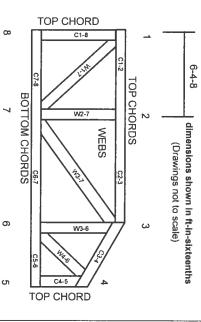
ANSI/TPI1: Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing

BCSI:

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

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

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.
- Ņ 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.

çu

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

4

Cut members to bear tightly against each other

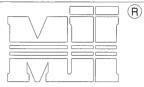
G

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

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

MII-T-BRACE 2

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc.

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

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

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

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

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

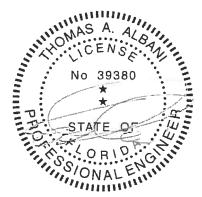
Nails	
Web	I-Brace
Nails	

Web

		Brace Size for One-Ply Truss			
		Continuous ateral Bracing			
Web Size	1	2			
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace			
2x6	2x6 T-Brace	2x6 I-Brace			
2x8	2x8 T-Brace	2x8 I-Brace			

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

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



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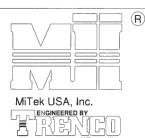
February 12, 2018

SCAB-BRACE DETAIL

MII-SCAB-BRACE

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Page 1 of 1

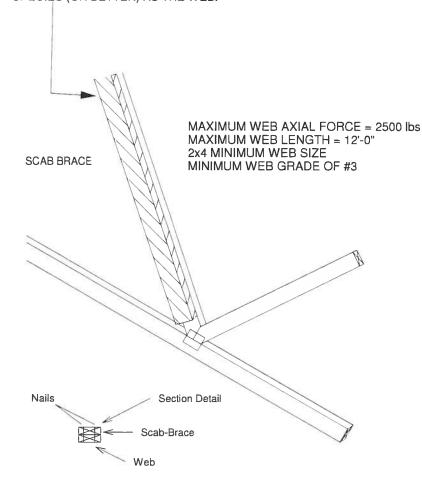


Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.

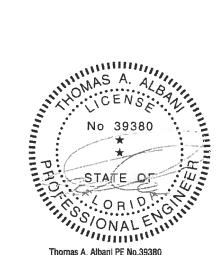
Scab must cover full length of web +/- 6".

*** 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.



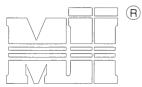
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February 12, 2018

STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)

MII-REP05

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc. ENGINEERED BY

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

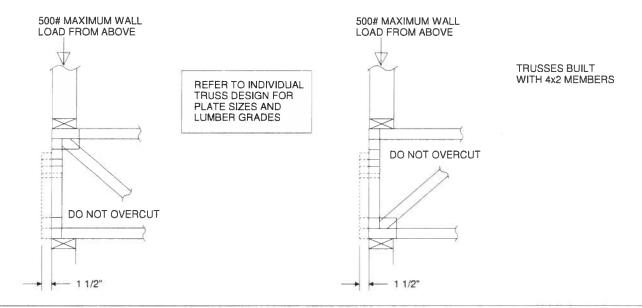
 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

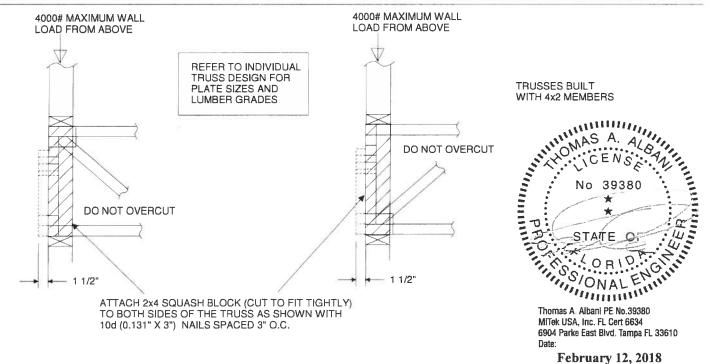
 3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE
- SUCH AS TO AVOID SPLITTING OF THE WOOD.

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

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

 6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.





Standard Gable End Detail

MII-GE130-D-SP

Page 1 of 2

DIAGONAL BRACE

16d Nails Spaced 6" o.c.

2x6 Stud or

2x4 No.2 of better

(2) - 10d NAILS

Trusses @ 24" o.c.

2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d

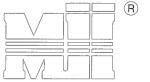
HORIZONTAL BRACE

(SEE SECTION A-A)

TO BLOCKING WITH (5) - 10d NAILS.

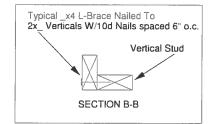
NAILS AND ATTACHED

MiTek USA, Inc.



MiTek USA, Inc.

ENGINEERED BY



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

- L-Bracing Refer

to Section B-B

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

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

(2) - 10d

NÁILS

(5) - 10d NAILS.

Vertical Stud

(4) - 16d Nails

(2) - 10d Nails into 2x6

Roof Sheathing

1'-3"

Max.

24" Max

Diag. Brace at 1/3 points

End Wall

if needed

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 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.

- Diagonal Bracing

Refer to Section A-A

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. 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 S 11. NAILS DESIGN NAILS DESIGN	NATED 10d)		
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.	3-9-13	4-1-1	5-9-6	7-1-3	11-5-7
2x4 SP No. 3 / Stud	16" O.C.	3-5-4	3-6-8	5-0-2	6-10-8	10-3-13
2x4 SP No. 3 / Stud	24" O.C.	2-9-11	2-10-11	4-1-1	5-7-6	8-5-1

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

MAX MEAN BOOF 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.

No 39380

STATE OF THE STATE OF Thomas A. Albani PE No.39380

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February 12, 2018

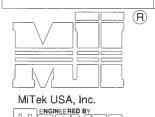


Standard Gable End Detail

MII-GE130-SP

Page 1 of 2

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

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

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

TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA 3x4 =В

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.

Diagonal Bracing Refer to Section A-A - L-Bracing Refer to Section B-B

NOTE

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

WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.

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.

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")

Roof Sheathing—	7 \ /
24" Max	NT DAY
	- 10d ILS (2) - 10d NAILS
	Trusses @ 24" o.c.
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.
End Wall	HORIZONTAL BRACE (SEE SECTION A-A)

(4) - 8d (0.131" X2.5") NAILS MINIMUM, PLYWOOD

SHEATHING TO 2x4 STD SPF BLOCK

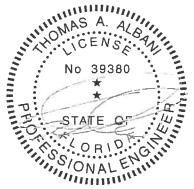
Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
and Grade			Maximur	n Stud Lei	ngth	
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1
2x4 SP No. 3 / Stud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

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

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

DURATION OF LOAD INCREASE: 1.60

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



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

February 12, 2018

JANUARY 6, 2017

Standard Gable End Detail

MII-GE140-001

Page 1 of 2

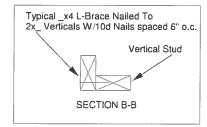
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DIAGONAL BRACE 4'-0" O.C. MAX



TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

Varies to Common Truss

SEE INDIVIDUAL MITEK ENGINEERING

24

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

> 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.

DRAWINGS FOR DESIGN CRITERIA ** 3x4 = B Ė

- Diagonal Bracing Refer to Section A-A

- L-Bracing Refer to Section B-B

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.

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

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

Roof Sheath	ing
t" Max 1'-3" Max.	(2) - 10d NAILS
	Trusses @ 24" o.c.
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.
End Wall	HORIZONTAL BRACE (SEE SECTION A-A)

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD

SHEATHING TO 2x4 STD DF/SPF BLOCK

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 l-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.



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

January 19, 2018

Standard Gable End Detail

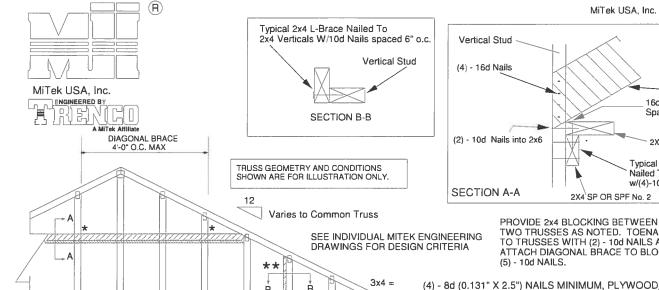
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MII-GE170-D-SP



Page 1 of 2



Vertical Stud 2X6 SP OR SPF No. 2 DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2X6 SP OR SPF No. 2 Typical Horizontal Brace Nailed To 2x4 Verticals w/(4)-10d Nails SECTION A-A 2X4\SP OR SPF No. 2

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

- Diagonal Bracing Refer to Section A-A - L-Bracing Refer to Section B-B

NOTE:

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

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

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 164 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")

24" Max	Roof	Sheath	ing	
		1'-0" Max.	(2) - NAIL	10d
at 1/	ı. Bracı 3 point eded			2x6 l 48" (4) BLO
1	End W	'all	X X	

SHEATHING TO 2x4 STD SPF BLOCK

DIAGONAL BRACE SPACED O.C. ATTACHED TO VERTICAL WITH 16d NAILS, AND ATTACHED TO CKING WITH (5) -10d NAILS.

(2) - 10d NAILS

∕Trusses @ 24" o.c.

HORIZONTAL BRACE (SEE SECTION A-A)

Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
12" O.C.	3-9-7	5-8-8	6-11-1	11-4-4
16" O.C.	3-4-12	4-11-15	6-9-8	10-2-3
24" O.C.	2-9-4	4-0-7	5-6-8	8-3-13
12" O.C.	3-11-13	5-8-8	6-11-1	11-11-7
16" O.C.	3-7-7	4-11-5	6-11-1	10-10-5
24" O.C.	3-1-15	4-0-7	6-3-14	9-5-14
	12" O.C. 16" O.C. 24" O.C. 12" O.C. 16" O.C.	Spacing Brace 12" O.C. 3-9-7 16" O.C. 3-4-12 24" O.C. 2-9-4 12" O.C. 3-11-13 16" O.C. 3-7-7	Spacing Brace L-Brace Maximum St 12" O.C. 3-9-7 5-8-8 16" O.C. 3-4-12 4-11-15 24" O.C. 2-9-4 4-0-7 12" O.C. 3-11-13 5-8-8 16" O.C. 3-7-7 4-11-5	Stud Spacing Brace L-Brace BRACE Maximum Stud Length 12" O.C. 3-9-7 5-8-8 6-11-1 16" O.C. 3-4-12 4-11-15 6-9-8 24" O.C. 2-9-4 4-0-7 5-6-8 12" O.C. 3-11-13 5-8-8 6-11-1 16" O.C. 3-7-7 4-11-5 6-11-1

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 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.



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

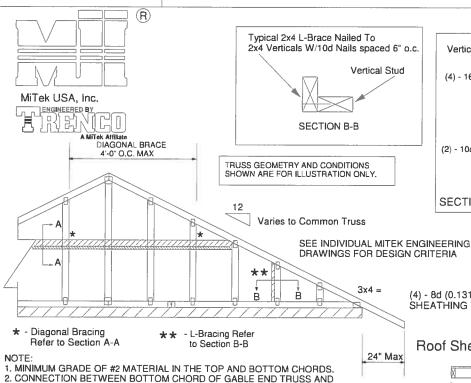
February 12, 2018

Standard Gable End Detail

MII-GE180-D-SP

Page 1 of 2

MiTek USA, Inc.



Vertical Stud 2X6 SP OR SPF No. 2 DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2X6 SP OR SPF No. 2 Typical Horizontal Brace Nailed To 2x4 Verticals w/(4)-10d Nails SECTION A-A 2X4 SP OR SPF No. 2

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

Roof Sheathing

1'-0"

Max.

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

- 10d

NAILS

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

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

4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3

4. "L" BHACES 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 STUTTED. 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")

		■
UD.	at	ag. Brace 1/3 points needed
		End Wall
DIAGO RACES B POIN	AT	

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

(2) - 10d NAILS

∕Trusses @ 24" o.c.

HORIZONTAL BRACE (SEE SECTION A-A)

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

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

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

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



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

February 12, 2018

MiTek USA, Inc. Page 1 of 1

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MiTek USA, Inc.

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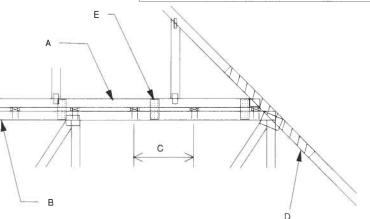
MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C ASCE 7-10 **DURATION OF LOAD INCREASE: 1.60**

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

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

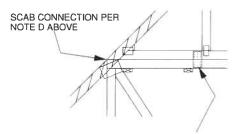
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR 2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft. E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH

- FUA WIND 3 FEEDS BE IWEEN 128 AND 160 MFT, ATTACK MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72° O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REO. REGARDLESS OF SPAN)

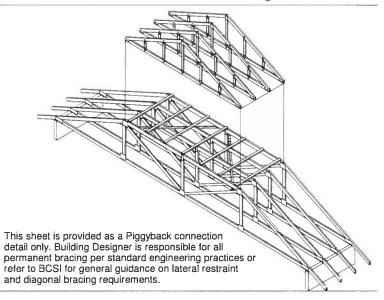


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

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



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



VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



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

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

AS SHOWN IN DETRIE.
ATTACH 2 X ___ X 4"-0" SCAB TO EACH FACE OF
TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS
SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH
VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)

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

GREATER THAN 4000 LBS.
FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS,
NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.

CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.

No 39380

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STATE OF LONG
Thomas A Albani PE No.39380 Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 February 12, 2018

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT 7-10

MiTek USA, Inc. Page 1 of 1

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.



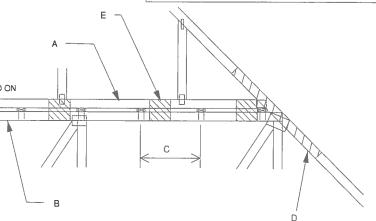
A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.

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: DIRECTIONS AND:

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

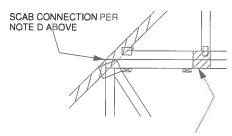
2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM
PIGGYBACK SPAN OF 12 ft.

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)

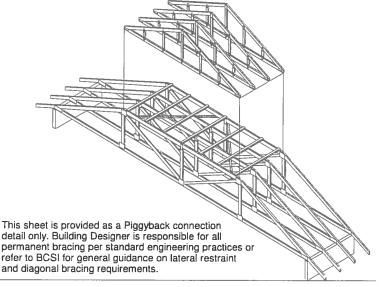


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

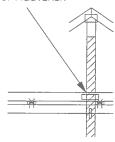
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



 $7"\times7"\times1/2"$ PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



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



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

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

AS SHOWN IN DETAIL.

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

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

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

VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)

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

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

THE PIGGYBACK AND THE BASE TRUSS DESIGN.



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

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

MII-REP01A1

MiTek USA, Inc.

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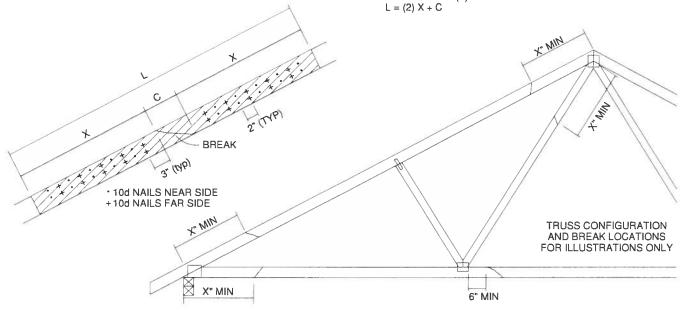
A MiTek Affiliate

TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *			MAXIMUM FORCE (lbs) 15% LOAD DURATION							
		X INCHES	SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

* DIVIDE EQUALLY FRONT AND BACK

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

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



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

DO NOT USE REPAIR FOR JOINT SPLICES

NOTES:

- 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.

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

- THE END DISTANCE, EDGE DISTANCE AND STAGING OF WAILS STALE BE SOCITABLE OF A ROUND UNUSUAL SPLITTING OF THE WOOD.
 WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
 THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x_ ORIENTATION ONLY.
 THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



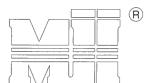
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LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP

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NOTES:

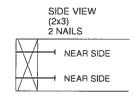
- 1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.

 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



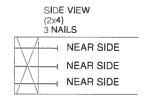
	DIAM.	SP	DF	HF	SPF	SPF-S	
3.5" LONG	.131	88.0	80.6	69.9	68.4	59.7	
	.135	93.5	85.6	74.2	72.6	63.4	
	.162	108.8	99.6	86.4	84.5	73.8	
.25" LONG	.128	74.2	67.9	58.9	57.6	50.3	
	.131	75.9	69.5	60.3	59.0	51.1	
	.148	81.4	74.5	64.6	63.2	52.5	

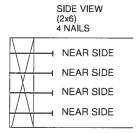
VALUES SHOWN ARE CAPACITY PER TOE-NAIL. APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

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

For load duration increase of 1.15:

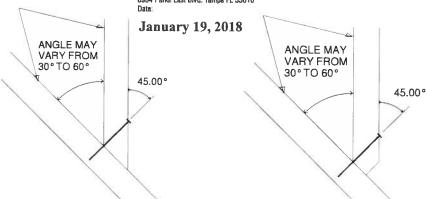
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

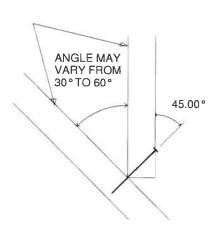






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TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

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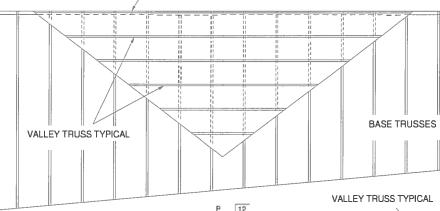


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GABLE END, COMMON TRUSS OR GIRDER TRUSS

GENERAL SPECIFICATIONS

- 1. NAIL SIZE 10d (0.131" X 3")
 2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT DO NOT USE DRYWALL OR DECKING TYPE SCREW
- 3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 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.

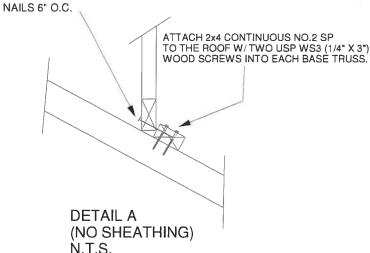


12

SEE DETAIL A BELOW (TYP.)

GABLE END, COMMON TRUSS OR GIRDER TRUSS

SECURE VALLEY TRUSS W/ ONE ROW OF 10d



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



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TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2

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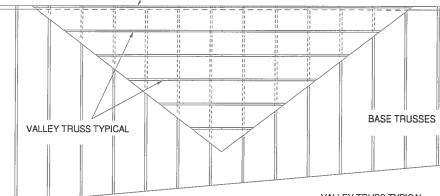
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ENGINEERED BY

GABLE END, COMMON TRUSS OR GIRDER TRUSS

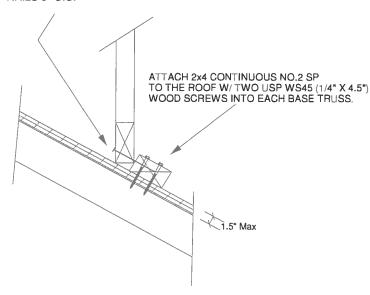
GENERAL SPECIFICATIONS

- 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 VALLEY TRUSS TYPICAL 12 OR GIRDER TRUSS SEE DETAIL A BELOW (TYP.)

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



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

ON THE TRUSSES

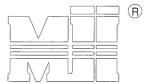
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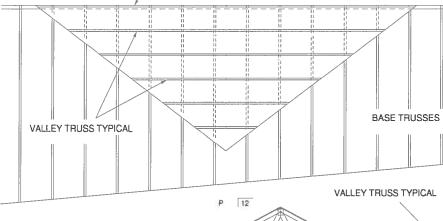
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GABLE END, COMMON TRUSS OR GIRDER TRUSS

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.

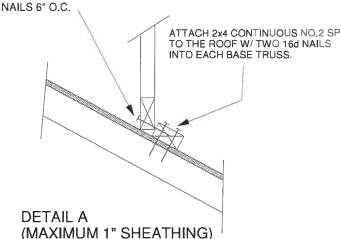


GABLE END, COMMON TRUSS OR GIRDER TRUSS

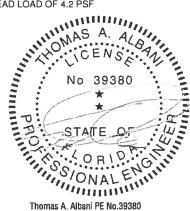
SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 16d

N.T.S.



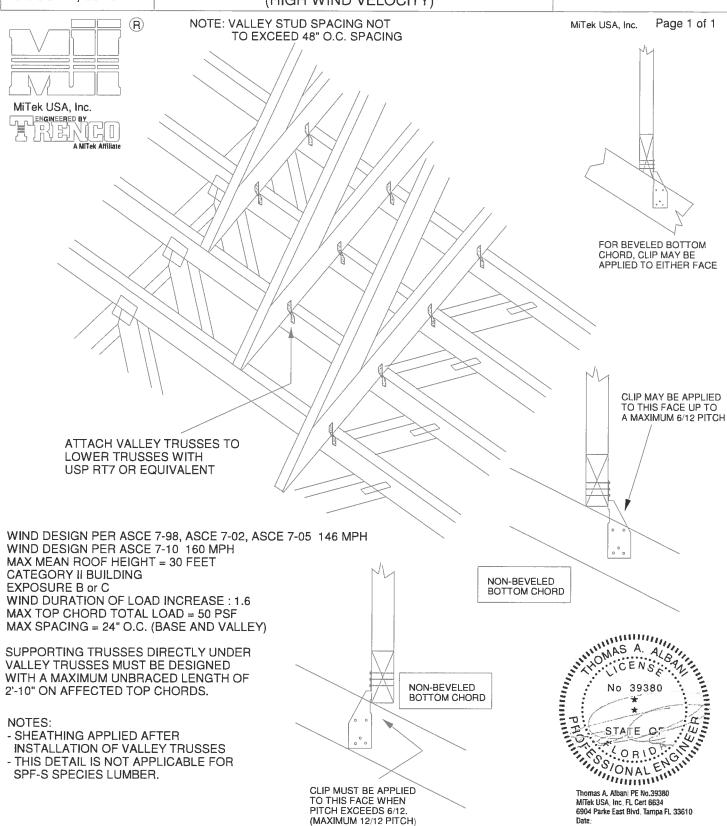
WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10 150 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12 CATEGORY II BUILDING EXPOSURE C OR B EXPOSURE C OR B
WIND DURATION OF LOAD INCREASE: 1.60
MAX TOP CHORD TOTAL LOAD = 60 PSF
MAX SPACING = 24" 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

MiTek USA, Inc.

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(2) - 10d NAILS

∕Trusses @ 24" o.c.

2x6 DIAGONAL BRACE SPACED 48" O.C.

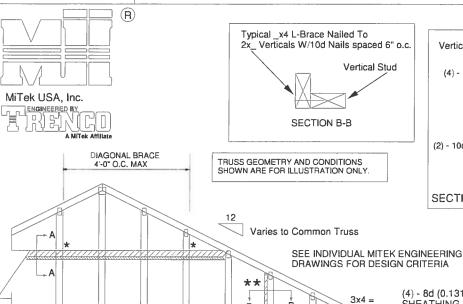
ATTACHED TO VERTICAL WITH (4) -16d

HORIZONTAL BRACE

(SEE SECTION A-A)

TO BLOCKING WITH (5) - 10d NAILS.

NAILS AND ATTACHED



- L-Bracing Refer

to Section B-B

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

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

(2) - 10d

NAILS

SHEATHING TO 2x4 STD SP BLOCK

Roof Sheathing

1'-3"

Max.

24" Max

Diag. Brace

at 1/3 points

End Wall

if needed

NOTE:

- Diagonal Bracing

Refer to Section A-A

- 1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
- 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND
- WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.

 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
- 4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES:
- 2x4 No 3/STUD SP 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. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

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

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.



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OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B

MiTek USA, Inc.

Page 1 of 1

R

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

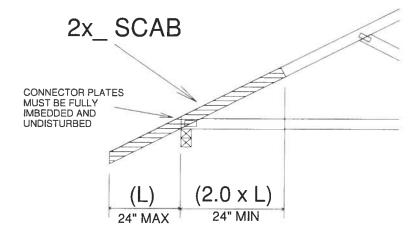
NOTES:

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.

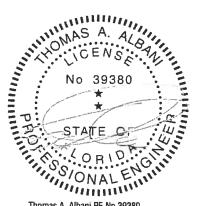


IMPORTANT

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 Date:

1 Dog 1

LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

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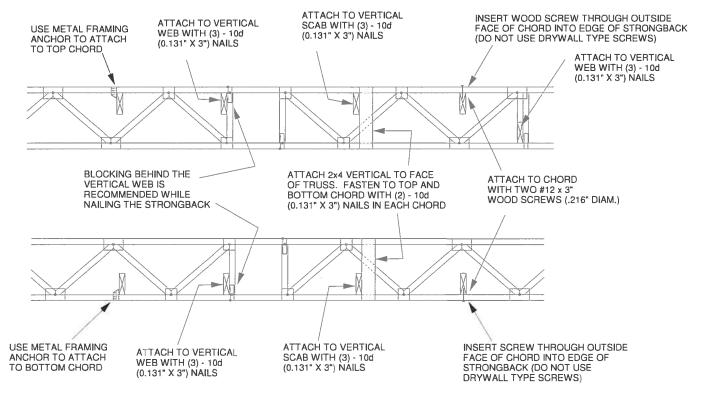
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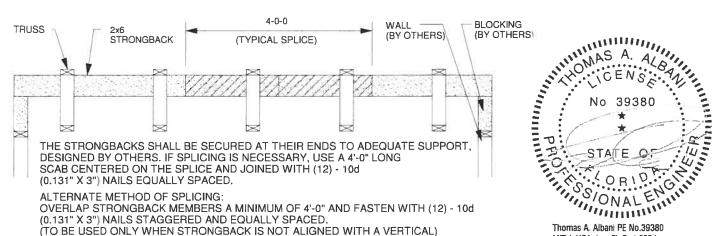


TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

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

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





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

700	C 400 hr	