

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

RE: 1350577 - JOHNSON RES.

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: Pete and Kyala Johnson Project Name: 1350577 Model: Custom

Subdivision:

Address: 871 SW Tustenuggee Ave.

City: Columbia Cty

State: FL

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

Name: Unknown at time of seals

License #: Unknown at time of seals

Address: Unknown at time of seals City: Unknown at time of seals

State: Unknown at time of seals

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 8.1

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

This package includes 86 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T13472676	CJ01	3/13/18	18	T13472693	EJ09	3/13/18
2	T13472677	CJ02	3/13/18	19	T13472694	HJ01	3/13/18
3	T13472678	CJ02A	3/13/18	20	T13472695	HJ02	3/13/18
4	T13472679	CJ03	3/13/18	21	T13472696	HJ03	3/13/18
5	T13472680	CJ04	3/13/18	22	T13472697	HJ04	3/13/18
6	T13472681	CJ05	3/13/18	23	T13472698	HJ05	3/13/18
7	T13472682	CJ06	3/13/18	24	T13472699	PB01	3/13/18
8	T13472683	CJ07	3/13/18	25	T13472700	PB02	3/13/18
9	T13472684	CJ08	3/13/18	26	T13472701	PB03	3/13/18
10	T13472685	EJ01	3/13/18	27	T13472702	PB04	3/13/18
11	T13472686	EJ02	3/13/18	28	T13472703	PB05	3/13/18
12	T13472687	EJ03	3/13/18	29	T13472704	PB06	3/13/18
13	T13472688	EJ04	3/13/18	30	T13472705	PB06A	3/13/18
14	T13472689	EJ05	3/13/18	31	T13472706	PB07	3/13/18
15	T13472690	EJ06	3/13/18	32	T13472707	PB08	3/13/18
16	T13472691	EJ07	3/13/18	33	T13472708	PB09	3/13/18
17	T13472692	EJ08	3/13/18	34	T13472709	PB10	3/13/18



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, 2019.

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



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

March 13,2018

RE: 1350577 - JOHNSON RES.

Site Information:

Lot/Block: Address: 871 SW Tustenuggee Ave.

City: Columbia Cty

Customer Info: Pete and Kyala Johnson Project Name: 1350577 Model: Custom

V02

V03

V05

V07

Truss Name

Date

3/13/18

3/13/18

3/13/18

3/13/18

3/13/18

3/13/18

3/13/18

3/13/18

3/13/18

Subdivision:

State: FL

Seal#

T13472753 V01

T13472758 V06

T13472760 V08

T13472761 V09

T13472754

T13472755 T13472756 V04

T13472757

T13472759

No.	Seal#	Truss Name	Date	No
35	T13472710	PB11	3/13/18	78
36	T13472711	T01	3/13/18	79
37	T13472712	T02	3/13/18	80
38	T13472713	T03	3/13/18	81
39	T13472714	T04	3/13/18	82
40	T13472715	T05	3/13/18	83
41	T13472716	T06	3/13/18	84
42	T13472717	T07	3/13/18	85
43	T13472718	T08	3/13/18	86
44	T13472719	T09	3/13/18	
45	T13472720	T10	3/13/18	
46	T13472721	T11	3/13/18	
47	T13472722	T12	3/13/18	
48	T13472723	T13	3/13/18	
49	T13472724	T14	3/13/18	
50	T13472725	T15	3/13/18	
51	T13472726	T16	3/13/18	
52	T13472727	T17	3/13/18	
53	T13472728	T18	3/13/18	
54	T13472729	T19	3/13/18	
55	T13472730	T20	3/13/18	
56	T13472731	T21	3/13/18	
57	T13472732	T22	3/13/18	
58	T13472733	T23	3/13/18	
59	T13472734	T24	3/13/18	
60	T13472735	T25	3/13/18	
61	T13472736	T26	3/13/18	
62	T13472737	T27	3/13/18	
63	T13472738	T28	3/13/18	
64	T13472739	T29	3/13/18	
65	T13472740	T30	3/13/18	
66	T13472741	T31	3/13/18	
67	T13472742	T32	3/13/18	
68	T13472743		3/13/18	
69	T13472744	T34	3/13/18	
70	T13472745	T35	3/13/18	
71	T13472746		3/13/18	
72	T13472747	T37	3/13/18	
73	T13472748	T38	3/13/18	
74	T13472749	T39	3/13/18	
75	T13472750	T39G	3/13/18	
76	T13472751	T40	3/13/18	
77	T13472752	T41	3/13/18	

Job Truss Truss Type Qty JOHNSON RES. T13472676 1350577 CJ01 16 Jack-Open | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:40 2018 Page 1 Builders FirstSource. Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-Q_jvk?J26pdRMaS70JeQenVapwGY_Jvr9Atrayzbdwz -2-0-0 1-0-0 2-0-0 1-0-0 Scale = 1:12.3 8.00 12 2 0-5-7

1-0-0

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	0.00	7	>999	180	A10000000000	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a	1	
BCDL	10.0	Code FBC2017/TI	PI2014	Matrix	x-MP	13.24400000000000000000000000000000000000					Weight: 7 lb	FT = 20%

LUMBER-

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

Structural wood sheathing directly applied or 1-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 3=-26/Mechanical, 2=254/0-3-8, 4=-47/Mechanical

Max Horz 2=90(LC 12)

Max Uplift 3=-26(LC 1), 2=-170(LC 12), 4=-53(LC 19) Max Grav 3=26(LC 16), 2=254(LC 1), 4=51(LC 16)

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

NOTES- (6)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb)
- 6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

March 13,2018

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

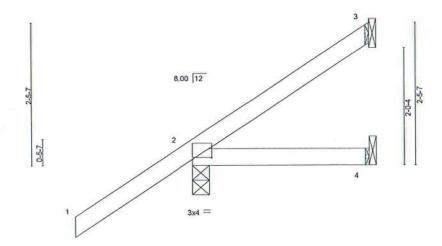
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 sand truss systems, see 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.



Qty JOHNSON RES. Job Truss Truss Type Ply T13472677 15 1350577 CJ02 Jack-Open Job Reference (optional) Builders FirstSource, Lake City, FL 32055 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:40 2018 Page 1 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-Q_jvk?J26pdRMaS70JeQenVapwFo_Jvr9Atrayzbdwz

ID:ISq1r2C3q1VuguHDMeZA4qzk -2-0-0 3-0-0 3-0-0

Scale = 1:19.0



3-0-0

Plate Offsets (X,Y)-	2:0-4-0,0-0-6]										
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	-0.01	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2017/T	PI2014	Matri	x-MP	200000000000000000000000000000000000000					Weight: 14 lb	FT = 20%

LUMBER-

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

Structural wood sheathing directly applied or 3-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=53/Mechanical, 2=253/0-3-8, 4=19/Mechanical

Max Horz 2=154(LC 12)

Max Horz 2=154(LC 12) Max Uplift 3=-63(LC 12), 2=-117(LC 12), 4=-24(LC 9) Max Grav 3=61(LC 19), 2=253(LC 1), 4=49(LC 3)

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

NOTES- (6)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(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.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=117.
- 6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

March 13,2018

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 systems, see AMSISTP1 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 JOHNSON RES. T13472678 1350577 CJ02A Jack-Open Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:41 2018 Page 1 Builders FirstSource, Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-uBHHxLKgt7IH_k1Ja09fA_1pEKcyjm8_OqdP6Ozbdwy 3-0-0 3-0-0 Scale = 1:15.2 8.00 12 0-5-7 3 2x4 = 3-0-0 3-0-0 Plate Offsets (X,Y)- [1:0-2-5,0-1-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL I/defi L/d PLATES Plate Grip DOL TC BC TCLL 20.0 1.25 0.12 Vert(LL) 0.01 3-6 >999 240 MT20 244/190

LUMBER-

TCDL

BCLL

BCDL

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

7.0

0.0

10.0

BRACING-TOP CHORD **BOT CHORD**

Vert(CT)

Horz(CT)

-0.01

-0.00

3-6 >999

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

Weight: 10 lb

FT = 20%

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

180

n/a

n/a

REACTIONS.

1=109/0-3-8, 2=70/Mechanical, 3=39/Mechanical (lb/size)

Max Horz 1=97(LC 12)

Max Uplift 1=-15(LC 12), 2=-78(LC 12), 3=-11(LC 12)

Code FBC2017/TPI2014

Max Grav 1=109(LC 1), 2=82(LC 19), 3=54(LC 3)

Lumber DOL

Rep Stress Incr

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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

0.10

0.00

WB

Matrix-MP

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

1.25

YES

- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2, 3.
- 6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

March 13,2018

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

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



JOHNSON RES. Job Qty Ply Truss Truss Type T13472679 1350577 CJ03 Jack-Open 12 | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:42 2018 Page 1 Builders FirstSource, Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-MNrf8hLldQt8cucW8kgujCawWktUSCO8dUMyeqzbdwx -2-0-0 5-0-0 2-0-0 5-0-0 Scale = 1:25.5 8.00 12 0-5-7 1 3x4 5-0-0 Plate Offsets (X,Y)- [2:0-1-3,0-1-8] 1/d PLATES GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL (loc) I/defl 244/190 >778 TCLL 20.0 Plate Grip DOL 1.25 TC 0.34 Vert(LL) 0.08 4-7 240 MT20 180 TCDL 7.0 Lumber DOL 1.25 BC 0.33 Vert(CT) 0.07 4-7 >884 BCLL 0.0 * Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 3 n/a n/a

LUMBER-

BCDL

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

10.0

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied. Rigid ceiling directly applied.

REACTIONS. (lb/size

(lb/size) 3=111/Mechanical, 2=313/0-3-8, 4=50/Mechanical

Max Horz 2=221(LC 12)

Max Uplift 3=-125(LC 12), 2=-117(LC 12), 4=-46(LC 9) Max Grav 3=125(LC 19), 2=313(LC 1), 4=87(LC 3)

Code FBC2017/TPI2014

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

NOTES- (7)

 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(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

Matrix-AS

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

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

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=125, 2=117.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Weight: 20 lb

FT = 20%

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

March 13,2018



Job Truss Truss Type Qty Ply JOHNSON RES. T13472680 1350577 CJ04 Jack-Open Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:42 2018 Page 1 Builders FirstSource Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-MNrf8hLldQt8cucW8kgujCavPkx9SCO8dUMyeqzbdwx -2-0-0 1-0-0 2-0-0 1-0-0 Scale = 1:13.7 3x6 II 8.00 12 2

1-0-0

LOADIN TCLL TCDL	G (psf) 20.0 7.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25	CSI.	0.41	DEFL. Vert(LL)	in -0.00	(loc) 5	l/defl >999	L/d 240	PLATES MT20	GRIP 244/190
BCLL	0.0 *	Rep Stress Incr	1.25 YES	BC WB	0.10	Vert(CT) Horz(CT)	-0.01	3	>999 n/a	180 n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MR	mossan tasatu					Weight: 9 lb	FT = 20%

LUMBER-

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

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

TOP CHORD

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

except end verticals.

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

REACTIONS.

(lb/size) 5=295/0-3-8, 3=-98/Mechanical, 4=-19/Mechanical

Max Horz 5=78(LC 9)

Max Uplift 5=-110(LC 12), 3=-98(LC 1), 4=-37(LC 9) Max Grav 5=295(LC 1), 3=-45(LC 16), 4=-33(LC 10)

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

TOP CHORD 2-5=-259/310

NOTES- (6)

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=110.
- 6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

March 13,2018

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



Qty JOHNSON RES. Job Ply Truss Truss Type T13472681 CJ05 Jack-Open 2 1350577 | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:43 2018 Page 1 Lake City, FL 32055 Builders FirstSource. ID:ISq1r2C3q1VuguHDMeZA4qzkabx-qZO1M1MwOk??D2BihRB7GP63b8FrBfeHr86VAHzbdww 3-0-0 2-0-0 3-0-0 Scale = 1:20.4 8.00 12 3x8 || 3x4 3-0-0 3-0-0 GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES** TC BC 244/190 TCLL 20.0 Plate Grip DOL 1.25 0.51 Vert(LL) 0.01 4-5 >999 240 MT20 TCDL 7.0 Lumber DOL 1.25 0.20 Vert(CT) -0.01 4-5 >999 180 0.0 * BCLL Rep Stress Incr YES WB 0.00 Horz(CT) -0.02 3 n/a n/a FT = 20%Code FBC2017/TPI2014 Matrix-MR Weight: 15 lb BCDL LUMBER-BRACING-

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

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins,

except end verticals.

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

REACTIONS. (lb/size) 5=264/0-3-8, 3=41/Mechanical, 4=17/Mechanical

Max Horz 5=132(LC 12) Max Uplift 5=-73(LC 12), 3=-81(LC 12), 4=-18(LC 12) Max Grav 5=264(LC 1), 3=63(LC 19), 4=50(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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March 13,2018

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Job Truss Truss Type Qty Ply JOHNSON RES. T13472682 1350577 C.106 Jack-Open 2 Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:44 2018 Page 1 Builders FirstSource, Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-llyQZNMY927srCmuF9iModfEIXamw5JR4or3jjzbdwv 5-0-0 -2-0-0 2-0-0 5-0-0 Scale = 1:27.5 8.00 12 4-4-4 3x6 / 2 \bigotimes 5 2x4 11 3x4 5-0-0 5-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl 1/d PLATES GRIP 20.0 Plate Grip DOL TCLL 1.25 TC 0.45 Vert(LL) -0.03 5-6 >999 240 244/190 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.28 Vert(CT) -0.065-6 >909 180 BCLL 0.0 Rep Stress Incr YES WB 0.10 Horz(CT) -0.00 n/a n/a BCDL Code FBC2017/TPI2014 Matrix-AS Weight: 28 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. 6=319/0-3-8, 3=103/Mechanical, 4=48/Mechanical (lb/size)

Max Horz 6=199(LC 12) Max Uplift 6=-77(LC 12), 3=-127(LC 12), 4=-39(LC 12) Max Grav 6=319(LC 1), 3=125(LC 19), 4=96(LC 3)

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

TOP CHORD 2-6=-271/184 BOT CHORD 5-6=-275/217 WEBS 2-5=-225/285

NOTES-

- 1) Wind: ASCÉ 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4 except (jt=lb) 3=127.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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

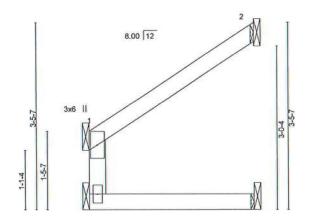


Job Truss Truss Type Qty Ply JOHNSON RES T13472683 1350577 CJ07 Jack-Open | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:44 2018 Page 1 Builders FirstSource, Lake City, FL 32055

ID:ISq1r2C3q1VuguHDMeZA4qzkabx-llyQZNMY927srCmuF9iModfJzXeFw6uR4or3jjzbdwv

3-0-0 3-0-0

Scale = 1:20.4



2x4 ||

3

				-	3-0-0
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DE
TCLL	20.0	Plate Grip DOL	1.25	TC 0.15	Ve
TCDL	7.0	Lumber DOL	1.25	BC 0.06	Ve
BCLL	0.0	Rep Stress Incr	YES	WB 0.00	Ho
BCDL	10.0	Code FBC2017/T	PI2014	Matrix-MR	

DEFL. I/defl L/d (loc) >999 240 Vert(LL) -0.00 Vert(CT) -0.00 >999 180 Horz(CT) -0.00 2 n/a n/a

PLATES GRIP MT20 244/190

Weight: 12 lb

FT = 20%

LUMBER-

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

BRACING-

3-0-0

TOP CHORD **BOT CHORD**

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

except end verticals.

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

All bearings Mechanical. REACTIONS.

(lb) - Max Horz 4=55(LC 19), 1=132(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 1

Max Grav All reactions 250 lb or less at joint(s) 4, 2, 3, 1

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 1.
- 7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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ANSI/TPI1 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 JOHNSON RES. Ply T13472684 1350577 CJ08 Jack-Open 2 | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:45 2018 Page 1 Builders FirstSource, Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-nyWonjNAwLGjTML5psEbLqCPHxvqfZ8aJSbcF9zbdwu 5-0-0 5-0-0 Scale = 1:27.5 8.00 12 4-9-7 2x4 || 1-5-7 4x6 || 5-0-0 5-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL I/defl PLATES GRIP (loc) L/d TCLL 20.0 Plate Grip DOL 1.25 0.06 TC 0.50 Vert(LL) 3-4 >999 240 244/190 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.36 -0.06 Vert(CT) >902 180 0.0 BCLL Rep Stress Incr YES WB 0.00 Horz(CT) -0.10 2 n/a n/a BCDL Code FBC2017/TPI2014 10.0 Matrix-AS Weight: 18 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.2

VILLO ZATO

(lb/size) 4=177/Mechanical, 2=122/Mechanical, 3=55/Mechanical

Max Horz 4=159(LC 12)

Max Uplift 2=-158(LC 12), 3=-20(LC 12)

Max Grav 4=177(LC 1), 2=148(LC 19), 3=90(LC 3)

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

NOTES- (7)

REACTIONS.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb)
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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

March 13,2018

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Qty JOHNSON RES. Ply Job Truss Truss Type T13472685 26 1350577 EJ01 Jack-Partial | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:46 2018 Page 1 Lake City, FL 32055 Builders FirstSource, ID:ISq1r2C3q1VuguHDMeZA4qzkabx-F84A_3OohfOa4VwHNalqt2kccLErO?cjX6KAnczbdwt 7-0-0 -2-0-0 3-5-15 2-0-0 3-5-15 3-6-1 Scale: 3/8"=1" 8.00 12 2x4 > 0-5-7 6 3x8 = 7-0-0 7-0-0 Plate Offsets (X,Y)-[2:0-8-0,0-0-10] SPACING-2-0-0 CSI. (loc) I/defl L/d PLATES GRIP LOADING (psf) Plate Grip DOL 1.25 Vert(LL) -0.08 6-9 >999 240 MT20 244/190 TCLL 20.0 TC 0.33 1.25 BC 0.43 Vert(CT) -0.15 6-9 >538 180 TCDL 7.0 Lumber DOL 0.11 0.00 0.0 Rep Stress Incr YES WB Horz(CT) 2 n/a n/a BCLL

LUMBER-

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD WEBS

10.0

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

TOP CHORD BOT CHORD Structural wood sheathing directly applied. Rigid ceiling directly applied.

REACTIONS. (lb/size) 4=76/Mechanical, 2=380/0-3-8, 5=165/Mechanical

Max Horz 2=197(LC 12)

Max Uplift 4=-62(LC 12), 2=-60(LC 12), 5=-56(LC 12) Max Grav 4=85(LC 19), 2=380(LC 1), 5=181(LC 19)

Code FBC2017/TPI2014

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

BOT CHORD

2-6=-180/273

WEBS

3-6=-334/221

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-AS

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Weight: 33 lb

FT = 20%

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Job Truss Truss Type Qty JOHNSON RES. T13472686 1350577 EJ02 Jack-Partial Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:46 2018 Page 1 Builders FirstSource. Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-F84A_3OohfOa4VwHNalqt2kb6LEAO?FjX6KAnczbdwt -2-0-0 1-3-7 2-3-8 4-6-0 7-0-0 2-0-0 1-0-1 2-2-8 Scale: 3/8"=1" 2x4 N 8.00 12 4-1-7 7-5-0 3x4 = \aleph 9 3v4 = 7-0-0 2-3-8 4-8-8 Plate Offsets (X,Y)- [2:0-4-0,0-0-2], [3:0-0-8,0-1-8] LOADING (psf) SPACING-2-0-0 CSI DEFL in I/defl PLATES GRIP L/d 20.0 Plate Grip DOL TCLL 1.25 TC 0.43 Vert(LL) -0.097-8 >968 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.41 Vert(CT) -0.177-8 >499 180 0.0 BCLL Rep Stress Incr YES WB 0.07 Horz(CT) 0.06 n/a n/a Code FBC2017/TPI2014 BCDL 10.0 Matrix-AS Weight: 35 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

8-9: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS.

5=38/Mechanical, 2=380/0-3-8, 6=203/Mechanical (lb/size)

Max Horz 2=197(LC 12)

Max Uplift 5=-35(LC 12), 2=-60(LC 12), 6=-83(LC 12) Max Grav 5=43(LC 19), 2=380(LC 1), 6=223(LC 19)

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

BOT CHORD

2-9=-139/330, 8-9=-115/354 3-9=-384/165, 4-7=-331/231

WEBS

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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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.



JOHNSON RES. Truss Type Qty Ply Job Truss T13472687 1350577 EJ03 Jack-Partial Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:47 2018 Page 1 Lake City, FL 32055 Builders FirstSource. ID:ISq1r2C3q1VuguHDMeZA4qzkabx-jKeYCOPRSzWRifVTwHG3QFHnMlcz7SJtmm4jK2zbdws 7-0-0 -2-0-0 3-5-15 2-0-0 3-5-15 3-6-1 Scale: 3/8"=1" 8.00 12 2x4 \ 5-1-7 2-5-7 \aleph 3x6 / 7-0-0 6-3-8 0-8-8 6-3-8 Plate Offsets (X,Y)-[2:0-1-3,0-1-8] LOADING (psf) GRIP SPACING-2-0-0 CSI. DEFL I/defl L/d **PLATES** TC BC 244/190 TCLL 20.0 Plate Grip DOL 1.25 0.33 Vert(LL) 0.06 6-9 >999 240 MT20 TCDL 7.0 Lumber DOL 1.25 0.31 Vert(CT) -0.056-9 >999 180 0.0 Rep Stress Incr WB 0.08 Horz(CT) -0.00 BCLL YES n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-AS Weight: 33 lb FT = 20%BRACING-LUMBER-TOP CHORD TOP CHORD 2x4 SP No.2 Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.

BOT CHORD 2x4 SP No 2

2x4 SP No.3 WEBS

WEDGE

Left: 2x4 SP No.3

All bearings Mechanical except (jt=length) 2=0-3-8, 6=0-3-8. REACTIONS.

(lb) - Max Horz 2=197(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 4, 2 except 5=-205(LC 3), 6=-223(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 4, 5 except 2=356(LC 1), 6=410(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-295/283

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2 except (jt=lb) 5=205, 6=223.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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March 13,2018

MARNING - 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 tracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Ply JOHNSON RES. T13472688 1350577 EJ04 Jack-Partial 6 Job Reference (optional) Builders FirstSource. Lake City, FL 32055 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:48 2018 Page 1 -2-0-0 3-6-0 7-0-0 2-0-0 3-6-0 Scale = 1:34,3 8.00 12 4x6 / 5-8-4 3x6 || \bigotimes 3x6 = 7-0-0 7-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defl L/d **PLATES** GRIP Plate Grip DOL TCLL 20.0 1.25 0.49 TC Vert(LL) -0.086-7 >991 240 MT20 244/190 BC TCDL 7.0 Lumber DOL 1.25 0.45 Vert(CT) -0.176-7 >487 180 BCLL 0.0 Rep Stress Incr WB YES 0.13 0.01 Horz(CT) n/a n/a Code FBC2017/TPI2014 BCDL 10.0 Matrix-AS Weight: 41 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.

(lb/size) 4=82/Mechanical, 5=151/Mechanical, 7=385/0-3-8

Max Horz 7=185(LC 12)

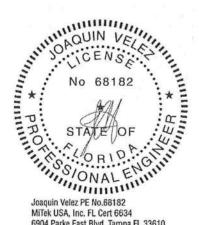
Max Uplift 4=-60(LC 12), 5=-85(LC 12), 7=-33(LC 12) Max Grav 4=91(LC 19), 5=179(LC 19), 7=385(LC 1)

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

TOP CHORD WEBS

2-7=-293/250 3-6=-284/250

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 7.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code,



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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March 13,2018

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Job	Truss	Truss Type	Qty	Ply	JOHNSON RES. T13472689
1350577	EJ05	Jack-Open	2	1	Job Reference (optional)

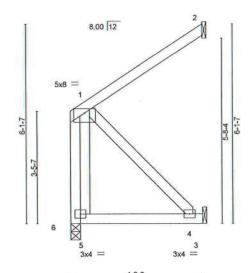
Builders FirstSource.

Lake City, FL 32055

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:48 2018 Page 1 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-BXCwPkP3DGelKp4fU?nlzTq_99_qsvt0?QpGsUzbdwr

4-0-0 4-0-0

Scale = 1:33.9



4-0-0 4-0-0

LOADIN TCLL TCDL	G (psf) 20.0 7.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI. TC BC	0.20 0.15	DEFL. Vert(LL) Vert(CT)	in -0.01 -0.02	(loc) 4-5 4-5	I/defl >999 >999	L/d 240 180	PLATES MT20	GRIP 244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-AS						Weight: 29 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

REACTIONS.

(lb/size) 2=95/Mechanical, 3=45/Mechanical, 6=120/0-3-8

Max Horz 6=81(LC 12) Max Uplift 2=73(LC 12), 3=-66(LC 12)

Max Grav 2=106(LC 19), 3=77(LC 3), 6=123(LC 21)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 6 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 capable of withstanding 100 lb uplift at joint(s) 2, 3.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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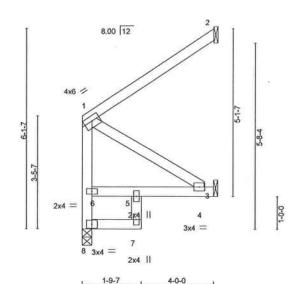
Job Truss Truss Type JOHNSON RES. Qtv Ply T13472690 1350577 EJ06 Jack-Open

Lake City, FL 32055 Builders FirstSource,

| Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:49 2018 Page 1 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-fjmJc4Qh_am9xzfs2ilXVgM5CYIqbMNAE4ZqOxzbdwq

4-0-0 4-0-0

Scale = 1:33.9



				1-9-7	2-2-9	100					
sets (X.Y)- [1	:Edge.0-1-12]				T					T	
G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	0.02	5	>999	240	MT20	244/190
7.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.03	4-5	>999	180	11-7-7-10-7-10-7	
0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.03	2	n/a	n/a		
10.0	Code FBC2017/T	PI2014	Matri	(-AS						Weight: 27 lb	FT = 20%
	G (psf) 20.0 7.0 0.0	G (psf) SPACING- 20.0 Plate Grip DOL 7.0 Lumber DOL 0.0 Rep Stress Incr	G (psf) SPACING- 2-0-0 20.0 Plate Grip DOL 1.25 7.0 Lumber DOL 1.25 0.0 Rep Stress Incr YES	G (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.25 TC 7.0 Lumber DOL 1.25 BC 0.0 Rep Stress Incr YES WB	Sets (X,Y)— [1:Edge,0-1-12] G (psf) SPACING- 20.0 2-0-0 Plate Grip DOL 1.25 CSI. TC 0.50 BC 0.22 7.0 Lumber DOL 1.25 1.25 BC 0.22 0.0 * Rep Stress Incr YES WB 0.11	sets (X,Y)— [1:Edge,0-1-12] G (psf) SPACING- 20.0 2-0-0 Plate Grip DOL 1.25 CSI. TC 0.50 DEFL. Vert(LL) 7.0 Lumber DOL Lumber DOL 0.0 * 1.25 BC 0.22 Vert(CT) WB 0.11 Horz(CT)	sets (X,Y)— [1:Edge,0-1-12] G (psf) SPACING- 20.0 2-0-0 CSI. DEFL. in Vert(LL) in 0.02 7.0 Lumber DOL 0.0 1.25 TC 0.50 Vert(LL) 0.02 0.0 Rep Stress Incr YES WB 0.11 Horz(CT) 0.03	Sets (X,Y)- [1:Edge,0-1-12] SPACING- 2-0-0 CSI. DEFL. in (loc)	Sets (X,Y)- [1:Edge,0-1-12] S (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl	Sets (X,Y)- [1:Edge,0-1-12] S PACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d	Sets (X,Y)- [1:Edge,0-1-12] S PACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES

LUMBER-

TOP CHORD 2x4 SP No.2

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

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied, except end verticals. Rigid ceiling directly applied.

REACTIONS.

(lb/size) 2=90/Mechanical, 3=51/Mechanical, 8=140/0-3-8

Max Horz 8=-134(LC 10)

Max Uplift 2=-69(LC 12), 3=-80(LC 9)

Max Grav 2=99(LC 19), 3=124(LC 10), 8=140(LC 1)

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

BOT CHORD

5-6=-297/267, 4-5=-297/267

WEBS

1-4=-315/350

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 8 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 capable of withstanding 100 lb uplift at joint(s) 2, 3.

 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code,



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ANSITTP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandra, VA 22314.



Qty Ply JOHNSON RES. Job Truss Truss Type T13472691 EJ07 Monopitch Girder 1350577 | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:50 2018 Page 1 Builders FirstSource Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-7vJhqQRJluu0Z7D2cPpm2uvJoydCKqNJSklNwNzbdwp 4-9-8 4-9-8 2x4 || 2 Scale = 1:21.1 8.00 12 3x6 Н 4-9-8 4-9-8 GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES** 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.26 Vert(LL) -0.023-6 >999 240 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.28 Vert(CT) -0.033-6 >999 180 BCLL 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 n/a n/a FT = 20%Code FBC2017/TPI2014 Matrix-MP Weight: 24 lb BCDL LUMBER-BRACING-Structural wood sheathing directly applied or 4-9-8 oc purlins, TOP CHORD 2x4 SP No.2 TOP CHORD **BOT CHORD** 2x6 SP No.2 except end verticals. 2x4 SP No.3 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS

(lb/size) 1=236/0-3-8, 3=280/0-3-8 Max Horz 1=107(LC 8) Max Uplift 3=-64(LC 8)

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

NOTES.

REACTIONS.

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.

5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 28 lb down at 1-1-1, and 157 lb down at 3-1-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54, 3-4=-20 Concentrated Loads (lb) Vert: 7=-15(F) 8=-157(F)



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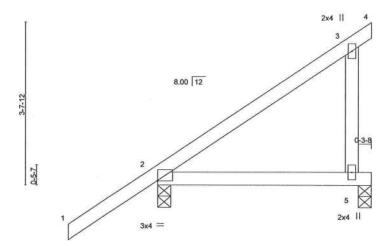


6904 Parke East Blvd

Job Truss Truss Type Qty JOHNSON RES. T13472692 1350577 EJ08 Jack-Partial Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:50 2018 Page 1 Builders FirstSource. Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-7vJhqQRJluu0Z7D2cPpm2uvIVyenKqNJSklNwNzbdwp -2-0-0 4-9-8 2-0-0

4-9-8

Scale = 1:24.9



4-9-8 Plate Offsets (X,Y)- [2:0-0-0,0-0-2] LOADING (psf) SPACING-2-0-0 CSI DEFL I/defl L/d **PLATES** GRIP Plate Grip DOL TC BC TCLL 20.0 1.25 0.34 Vert(LL) -0.035-8 >999 240 MT20 244/190 TCDL 7.0 1.25 Lumber DOL 0.24 Vert(CT) -0.045-8 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-AS Weight: 24 lb FT = 20%

LUMBER-

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

2x4 SP No.3

BRACING-

TOP CHORD BOT CHORD

4-9-8

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

REACTIONS.

(lb/size) 5=161/0-3-8, 2=293/0-3-8

Max Horz 2=214(LC 12)

Max Uplift 5=-132(LC 12), 2=-106(LC 12) Max Grav 5=183(LC 19), 2=293(LC 1)

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

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 5) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



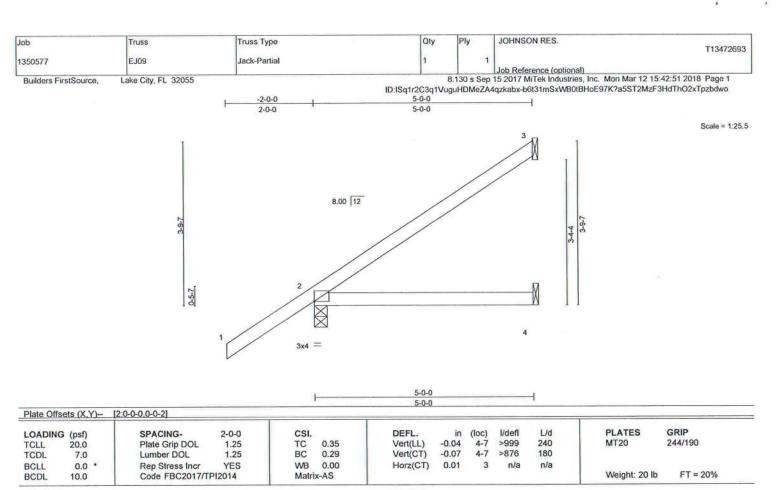
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

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LUMBER-

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

Structural wood sheathing directly applied.

TOP CHORD **BOT CHORD**

Rigid ceiling directly applied.

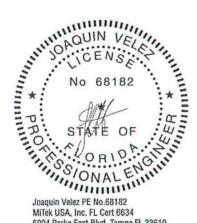
(lb/size) 3=111/Mechanical, 2=313/0-3-8, 4=50/Mechanical REACTIONS.

Max Horz 2=221(LC 12)

Max Uplift 3=-125(LC 12), 2=-117(LC 12), 4=-2(LC 12) Max Grav 3=131(LC 19), 2=313(LC 1), 4=87(LC 3)

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

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=125, 2=117,
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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ANSI/TPI1 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 JOHNSON RES. Qty Ply T13472694 1350577 HJ01 Diagonal Hip Girder 1 Job Reference (optional) Builders FirstSource Lake City, FL 32055 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:52 2018 Page 1 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-3IRRF6SZHV8koQNRjqsE7J_aXmEuogucw2nU?Fzbdwn -2-9-15 4-6-0 9-10-13 2-9-15 4-6-0 Scale = 1:31 1 5,66 12 3x4 = 5-1-1 25-1 6 7 2x4 || 3x4 = 3x4 4-6-0 9-10-13 4-6-0 5-4-13 LOADING (psf) SPACING-2-0-0 CSI. DEFL (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.62 Vert(LL) 0.11 6-7 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.59 Vert(CT) -0.126-7 >979 180 BCLL 0.0 Rep Stress Incr NO WB 0.32 Horz(CT) -0.01 5 n/a n/a BCDL Code FBC2017/TPI2014 Matrix-MS 10.0 Weight: 47 lb FT = 20%

LUMBER-

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

BRACING-

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

Rigid ceiling directly applied or 7-2-11 oc bracing.

REACTIONS. (lb/size) 4=151/Mechanical, 2=464/0-4-15, 5=251/Mechanical

Max Horz 2=287(LC 8)

Max Uplift 4=-168(LC 8), 2=-406(LC 8), 5=-267(LC 8)

Max Grav 4=151(LC 1), 2=464(LC 1), 5=268(LC 3)

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

TOP CHORD 2-3=-706/469

BOT CHORD 2-7=-564/477, 6-7=-564/477

3-6=-521/616 WEBS

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 4=168, 2=406, 5=267,
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 102 lb up at 1-5-12, 86 lb down and 102 lb up at 1-5-12, 108 lb down and 61 lb up at 4-3-11, 108 lb down and 61 lb up at 4-3-11, and 143 lb down and 132 lb up at 7-1-10, and 143 lb down and 132 lb up at 7-1-10 on top chord, and 43 lb down and 75 lb up at 1-5-12, 43 lb down and 75 lb up at 1-5-12, 22 lb down and 34 lb up at 4-3-11, 22 lb down and 34 lb up at 4-3-11, and 35 lb down and 60 lb up at 7-1-10, and 35 lb down and 60 lb up at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

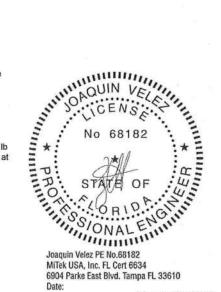
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=7(F=4, B=4) 11=50(F=25, B=25) 12=-68(F=-34, B=-34) 13=69(F=34, B=34) 14=-44(F=-22, B=-22)



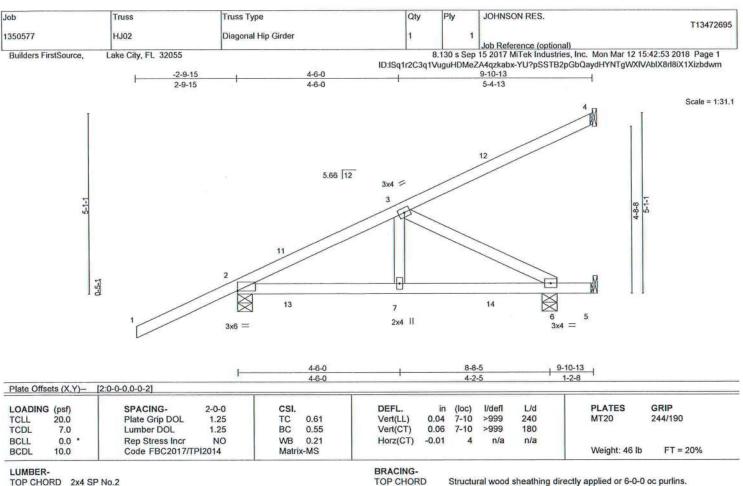
6904 Parke East Blvd. Tampa FL 33610 Date:

March 13,2018

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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, Alexandra, VA 22314.





BOT CHORD

Rigid ceiling directly applied or 8-4-3 oc bracing.

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

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

All bearings Mechanical except (jt=length) 2=0-4-15, 6=0-4-15. REACTIONS.

Max Horz 2=287(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 5 except 4=-166(LC 8), 2=-369(LC 8), 6=-389(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 4, 5 except 2=429(LC 1), 6=408(LC 3)

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

TOP CHORD

2-3=-629/374

BOT CHORD

2-7=-473/387, 6-7=-473/387

WEBS

3-6=-434/531

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4=166, 2=369, 6=389,
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 102 lb up at 1-5-12, 86 lb down and 102 lb up at 1-5-12, 108 lb down and 61 lb up at 4-3-11, 108 lb down and 61 lb up at 4-3-11, and 143 lb down and 132 lb up at 7-1-10, and 143 lb down and 132 lb up at 7-1-10 on top chord, and 77 lb down and 75 lb up at 1-5-12, 77 lb down and 75 lb up at 1-5-12, 56 lb down and 34 lb up at 4-3-11, 56 lb down and 34 lb up at 4-3-11, and 40 lb down and 60 lb up at 7-1-10, and 40 lb down and 60 lb up at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

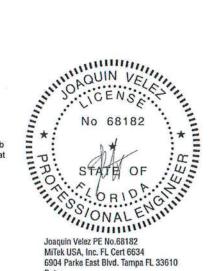
LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 7=7(F=4, B=4) 11=50(F=25, B=25) 12=-68(F=-34, B=-34) 13=69(F=34, B=34) 14=-44(F=-22, B=-22)



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March 13,2018

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Qty JOHNSON RES. Job Truss Truss Type Ply T13472696 1350577 HJ03 Diagonal Hip Girder Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:54 2018 Page 1 Lake City, FL 32055 Builders FirstSource. ID:ISq1r2C3q1VuguHDMeZA4qzkabx-0hZCgoUqp6OR2kXprFuiCk4wtZyqGZ1vNMGb38zbdwl 4-9-0 9-10-13 -2-9-15 2-9-15 4-9-0 5-1-13 Scale = 1:33,7 5.66 12 3x4 = 3 10 5x6 = 13 7 14 6 5 4x6 = 2x6 || 3x4 = 4-9-0 9-10-13 4-9-0 5-1-13 Plate Offsets (X,Y)-[2:0-3-0,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL I/defl 1 /d PLATES GRIP in (loc) 20.0 Plate Grip DOL 1.25 0.63 Vert(LL) 244/190 TCLL TC 0.06 6-7 >999 240 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.49 -0.09 >999 180 Vert(CT) 6-7 BCLL 0.0 Rep Stress Incr NO WB 0.34 Horz(CT) -0.01 4 n/a n/a Code FBC2017/TPI2014 Matrix-MS FT = 20% BCDL 10.0 Weight: 57 lb LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 2x4 SP No.2 **BOT CHORD** except end verticals. 2x4 SP No.3 *Except* **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS 2-8: 2x4 SP No.2

REACTIONS. (lb/size) 8=496/0-4-15, 4=143/Mechanical, 5=262/Mechanical

Max Horz 8=267(LC 8)

Max Uplift 8=-446(LC 8), 4=-166(LC 8), 5=-294(LC 8) Max Grav 8=581(LC 32), 4=143(LC 1), 5=336(LC 32)

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

TOP CHORD 2-8=-536/404, 2-3=-605/337 **BOT CHORD**

7-8=-278/31, 6-7=-432/415 WEBS 2-7=-298/509, 3-6=-504/525

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=446, 4=166, 5=294.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 113 lb down and 174 lb up at 1-5-12, 113 lb down and 174 lb up at 1-5-12, 103 lb down and 71 lb up at 4-3-11, 121 lb down and 77 lb up at 4-3-11, and 157 lb down and 167 lb up at 7-1-10, and 156 lb down and 132 lb up at 7-1-10 on top chord, and 32 lb down and 67 lb up at 1-5-12, 32 lb down and 67 lb up at 1-5-12, 17 lb down and 1 lb up at 4-3-11, 32 lb down and 24 lb up at 4-3-11, and 51 lb down and 35 lb up at 7-1-10, and 64 lb down and 54 lb up at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

Vert: 1-2=-54, 2-4=-54, 5-8=-20

No 68182

No 68182

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

March 13,2018

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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.



Job	Truss	Truss Type	Qty	Ply	JOHNSON RES. T13472696
1350577	HJ03	Diagonal Hip Girder	2	1	11011233
57279777 CM	Territor				Job Reference (optional)

Builders FirstSource,

Lake City, FL 32055

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:54 2018 Page 2 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-0hZCgoUqp6OR2kXprFuiCk4wtZyqGZ1vNMGb38zbdwl

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 9=90(F=45, B=45) 11=-73(F=-27, B=-46) 13=6(F=5, B=1) 14=-46(F=-20, B=-27)



Truss Type JOHNSON RES. Job Qty Ply T13472697 1350577 HJ04 Diagonal Hip Girder | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:55 2018 Page 1 Builders FirstSource, Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-Ut7at8VSaQWlfu60OzPxlxc4TzHT?5c2c008cazbdwk -2-9-15 7-0-14 2-9-15 7-0-14 Scale = 1:25.0 5.66 12 3-8-0-5-1 11 10 2x6 = 7-0-14 7-0-14 Plate Offsets (X,Y)-[2:0-6-0,0-0-10] LOADING (psf) SPACING-2-0-0 DEFL I/defl L/d **PLATES** (loc) TCLL 20.0 Plate Grip DOL 1.25 TC 0.64 Vert(LL) -0.20 4-7 >421 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.47 Vert(CT) -0.25 4-7 >335 180 BCLL 0.0 Rep Stress Inci NO WB 0.00 Horz(CT) 0.01 2 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-MS Weight: 27 lb FT = 20% LUMBER-BRACING-

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

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.

(lb/size) 3=145/Mechanical, 2=352/0-4-15, 4=63/Mechanical Max Horz 2=221(LC 8) Max Uplift 3=-166(LC 8), 2=-297(LC 8), 4=-39(LC 8)

Max Grav 3=145(LC 1), 2=352(LC 1), 4=112(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=166 2=297.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 102 lb up at 1-5-12, 86 lb down and 102 lb up at 1-5-12, and 112 lb down and 79 lb up at 4-3-11, and 108 lb down and 61 lb up at 4-3-11 on top chord, and 43 lb down and 75 lb up at 1-5-12, 43 lb down and 75 lb up at 1-5-12, and 28 lb down and 20 lb up at 4-3-11, and 22 lb down and 34 lb up at 4-3-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 8=50(F=25, B=25) 9=-1(F) 10=69(F=34, B=34) 11=-7(F=-10, B=4)



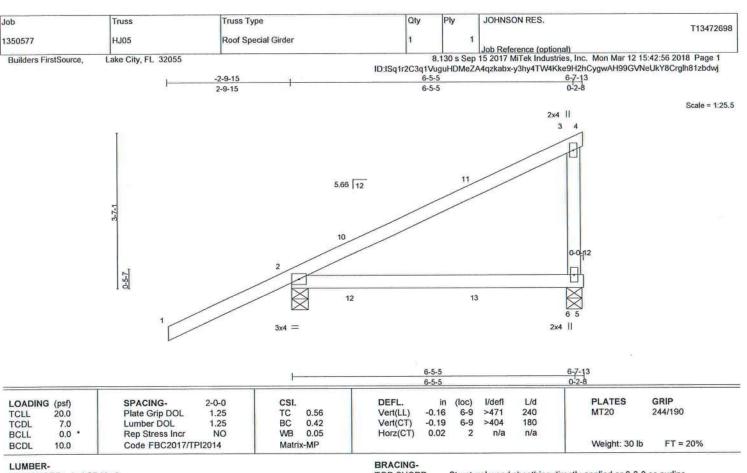
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

March 13,2018

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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.





TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 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. (lb/size) 2=329/0-4-9, 6=181/0-4-3

Max Horz 2=212(LC 8)

Max Uplift 2=-285(LC 8), 6=-201(LC 8)

Max Grav 2=329(LC 1), 6=190(LC 32)

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

NOTES- (7

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60

2) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=285, 6=201.

- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 102 lb up at 1-4-15, 86 lb down and 102 lb up at 1-4-15, and 108 lb down and 61 lb up at 4-2-15, and 108 lb down and 61 lb up at 4-2-15 on top chord, and 43 lb down and 75 lb up at 1-4-15, 43 lb down and 75 lb up at 1-4-15, and 22 lb down and 34 lb up at 4-2-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 3-4=-14, 5-7=-20

Concentrated Loads (lb)

Vert: 10=50(F=25, B=25) 12=69(F=34, B=34) 13=7(F=4, B=4)



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

March 13,2018



Job Truss Truss Type Qty JOHNSON RES. T13472699 1350577 PB01 2 Piggyback | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:57 2018 Page 1 Builders FirstSource. Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-QGFKIpWi51m0vCGOWORPqMiVXn1OT?9L3KVFgTzbdwi 5-9-8 11-7-0 5-9-8 5-9-8 Scale = 1:24.6 4x6 = 3 8.00 12 0-1-10 0-1-1-0 3x6 = 3x6 = 2x4 || 11-7-0 11-7-0 Plate Offsets (X,Y)-[2:0-3-9,0-1-8], [4:0-3-9,0-1-8] LOADING (psf) SPACING-2-0-0 CSI DEFL I/defl **PLATES** 20.0 TC BC TCLL Plate Grip DOL 1.25 0.29 Vert(LL) 0.01 120 MT20 244/190 n/r TCDL 7.0 Lumber DOI 1 25 0.24 Vert(CT) 0.02 5 n/r 120 BCLL 0.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-S Weight: 40 lb FT = 20% LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD

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

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

2x4 SP No.3

2=209/10-0-12, 4=209/10-0-12, 6=379/10-0-12 (lb/size) Max Horz 2=-94(LC 10) Max Uplift 2=-60(LC 12), 4=-69(LC 13), 6=-55(LC 12)

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

NOTES-

REACTIONS.

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

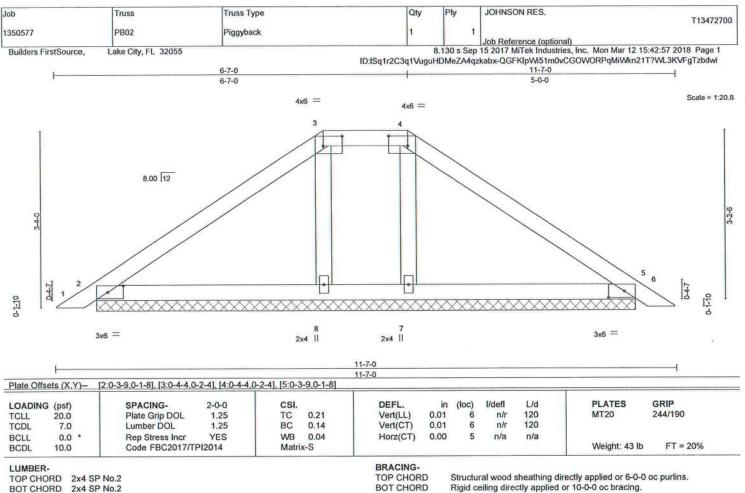
March 13,2018

🔼 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REPRENCE PASE MIL-14/3 FeV. 1000AZCITS BEFORE USE.

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

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





BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

2x4 SP No.3 **OTHERS**

REACTIONS. All bearings 10-0-12.

(lb) - Max Horz 2=-81(LC 10)

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

Max Grav All reactions 250 lb or less at joint(s) 2, 5 except 7=251(LC 24), 8=251(LC 23)

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.

4) Gable requires continuous bottom chord bearing.

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

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 7, 8.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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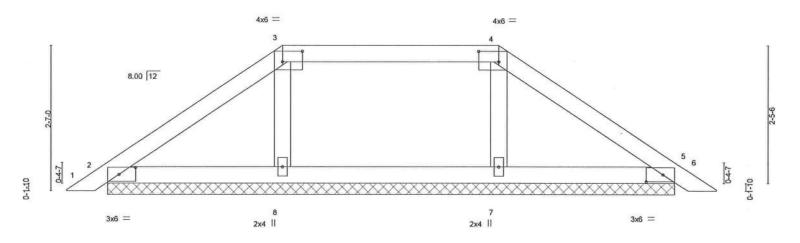
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



JOHNSON RES loh Truss Truss Type Qty Ply T13472701 1350577 **PB03** Piggyback 1 | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:58 2018 Page 1 Lake City, FL 32055 Builders FirstSource. ID:ISq1r2C3q1VuguHDMeZA4qzkabx-uSoiV9XKsLutWLra45zeNaEiRBPwCSgUI_EoCvzbdwh 7-8-8 11-7-0 7-8-8

Scale = 1:19.7



						11-7-0						,
Plate Offs	sets (X,Y)- [2	2:0-3-9,0-1-8], [3:0-4-4,0	-2-4], [4:0-4-4.0	0-2-4], [5:0-3	-9,0-1-8]							
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	0.00	6	n/r	120	100	
BCLL	0.0 •	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TF	212014	Matrix	c-S						Weight: 40 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

OTHERS 2x4 SP No.3

REACTIONS. All bearings 10-0-12.

(lb) - Max Horz 2=61(LC 11)

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

Max Grav All reactions 250 lb or less at joint(s) 2, 5 except 7=267(LC 24), 8=267(LC 23)

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

NOTES- (9

- 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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 7, 8.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

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

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

March 13,2018

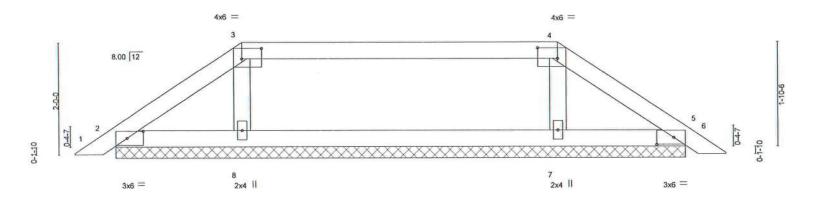
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIN-7473 rev. 10/03/2015 BEFORE USE.

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 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 __ASI/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.



Job	Truss	Truss Type	Qty	Ply	JOHNSON RES. T1347270
1350577	PB04	Piggyback	1	1	
ACTION OF THE PARTY OF THE PART					Job Reference (optional)
Builders FirstSource,	Lake City, FL 32055		8	.130 s Sep	15 2017 MiTek Industries, Inc. Mon Mar 12 15:42:59 2018 Page 1
			ID:ISq1r2C3q1	VuguHDMe	eZA4qzkabx-MeM4jVYydf0k8VPndoUtvnnqDakoxveeXe MlLzbdwg
7		8-7-0			11-7-0
		8-7-0			3-0-0

Scale = 1:19.7



1						11-7-0						
-						11-7-0						
Plate Offse	ets (X,Y)-	[2:0-3-9,0-1-8], [3:0-4-4,0	-2-4], [4:0-4-4,	0-2-4], [5:0-3	-9,0-1-8]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.00	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	-0.00	5	n/r	120		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a	2.000	
BCDL 10.0		Code FBC2017/TPI2014		Matrix-S							Weight: 38 lb	FT = 20%

LUMBER-

2x4 SP No.2 TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.3 WEBS **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 10-0-12.

(lb) - Max Horz 2=47(LC 11)

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

Max Grav All reactions 250 lb or less at joint(s) 2, 5 except 7=323(LC 24), 8=323(LC 23)

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 7, 8.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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March 13,2018

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Qty Ply JOHNSON RES. Job Truss Truss Type T13472703 1350577 PB05 Piggyback 15 Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:00 2018 Page 1 Builders FirstSource, Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-qqwTwrZaOy8bmf_zBW?6S?K2V_4SgLEnlHjvHozbdwf 4-9-8 4-9-8 4-9-8 Scale = 1:21.2 4x6 =8.00 12 5 04-7 0-1-10 0-1-10 2x4 = 2x4 = 11 2x4 9-7-0 9-7-0 LOADING (psf) SPACING-CSI. DEFL 2-0-0 in (loc) I/defl 1 /d **PLATES** GRIP 20.0 Plate Grip DOL 1.25 TC 244/190 TCLL 0.18 Vert(LL) 0.01 120 n/r MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.16 Vert(CT) 0.01 5 n/r 120 BCLL 0.0 Rep Stress Incr YES WB 0.04 0.00 Horz(CT) n/a n/a Code FBC2017/TPI2014 10.0 BCDL Matrix-S Weight: 33 lb FT = 20%BRACING-LUMBER-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD

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

OTHERS

BOT CHORD

REACTIONS. (lb/size) 2=173/8-0-12, 4=173/8-0-12, 6=302/8-0-12

Max Horz 2=-77(LC 10)

2x4 SP No.2

2x4 SP No.3

Max Uplift 2=-50(LC 12), 4=-58(LC 13), 6=-44(LC 12)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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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.



Qty Job Truss Type T13472704 PB06 1350577 Piggyback Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:01 2018 Page 1 Builders FirstSource. Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-J1Ur8BZD9GHSOpZ9IDWL_CsDxORwPolx_xTSpEzbdwe 7-1-0 3-6-8 3-6-8 3-6-8 Scale = 1:16.2 4x6 = 3 8.00 12 0-4-7 0-4-7 0-1-10 0-1-10 6 II 2x4 = 2x4 = 2x4 7-1-0 7-1-0 DEFL I/defl L/d **PLATES** GRIP LOADING (psf) SPACING-2-0-0 CSI. (loc) 20.0 Plate Grip DOL 1.25 TC 0.13 Vert(LL) 0.00 5 n/r 120 MT20 244/190 TCLL TCDL 7.0 Lumber DOL 1.25 BC 0.08 Vert(CT) 0.00 5 n/r 120 BCLL 0.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.00 4 n/a n/a Code FBC2017/TPI2014 Matrix-P Weight: 23 lb FT = 20% 10.0 BCDL LUMBER-BRACING-

TOP CHORD

BOT CHORD

JOHNSON RES.

Ply

REACTIONS.

TOP CHORD

BOT CHORD

OTHERS

(lb/size) 2=138/5-6-12, 4=138/5-6-12, 6=187/5-6-12

Max Horz 2=55(LC 11)

2x4 SP No.2

2x4 SP No.2

2x4 SP No.3

Truss

Max Uplift 2=-45(LC 12), 4=-51(LC 13), 6=-15(LC 12)

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

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

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

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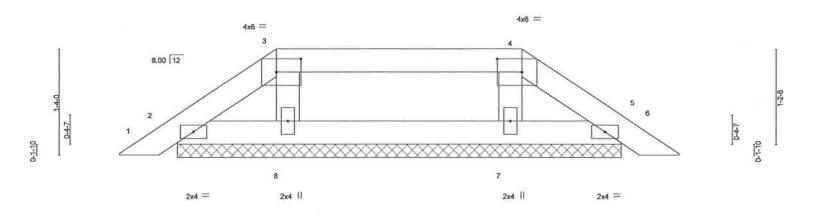
March 13,2018

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



JOHNSON RES. Job Truss Truss Type Qty Ply T13472705 1350577 PB06A Piggyback | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:02 2018 Page 1 Lake City, FL 32055 Builders FirstSource. ID:ISq1r2C3q1VuguHDMeZA4qzkabx-nD2DLXarwaPJ?z8MJx1aXQPQTonh8Fq4DbC0Lqzbdwd 7-1-0

Scale = 1:13.9



	1					7-1-0						_E
						7-1-0				48-14-11		1
Plate Offs	ets (X,Y)-	[3:0-3-12,0-2-0], [4:0-3-12	2,0-2-0]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TI	212014	Matri	x-P	1					Weight: 22 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

REACTIONS. All bearings 5-6-12. (lb) - Max Horz 2=30(LC 11)

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

All reactions 250 lb or less at joint(s) 2, 5, 8, 7

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

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 8, 7.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

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

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

March 13,2018

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ANSITPH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Qty JOHNSON RES. Ply Job Truss Truss Type T13472706 Piggyback PB07 1350577 | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:02 2018 Page 1 Lake City, FL 32055 Builders FirstSource. ID:ISq1r2C3q1VuguHDMeZA4qzkabx-nD2DLXarwaPJ?z8MJx1aXQPOeomk8FM4DbC0Lgzbdwd 10-11-0 10-11-0 Scale = 1:19.5 2x4 || 4x6 = 2x4 || 3 5 8.00 12 0-4-7 0-1-10 8 3x6 = 2x4 || 2x4 || 2x4 10-11-0 10-11-0 Plate Offsets (X.Y)- [2:0-3-9,0-1-8], [3:0-3-12,0-2-0]

LUMBER-

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

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

20.0

7.0

10.0

0.0

2x4 SP No.3 **OTHERS**

BRACING-TOP CHORD

BOT CHORD

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

in (loc)

-0.00

0.00

0.00

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

I/defl

n/r

n/r

n/a

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

L/d

120

120

n/a

All bearings 10-1-14. REACTIONS.

Max Horz 2=88(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7, 8

SPACING-

Plate Grip DOL

Rep Stress Incr

Code FBC2017/TPI2014

Lumber DOL

Max Grav All reactions 250 lb or less at joint(s) 6, 2 except 7=274(LC 1), 8=267(LC 1)

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

NOTES-

1) Wind: ASCÉ 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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

CSI

TC BC

WB

Matrix-S

0.14

0.11

0.06

- 2) Provide adequate drainage to prevent water ponding.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

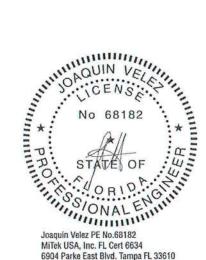
2-0-0

1.25

1.25

YES

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7, 8.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



GRIP

244/190

FT = 20%

PLATES

Weight: 42 lb

MT20

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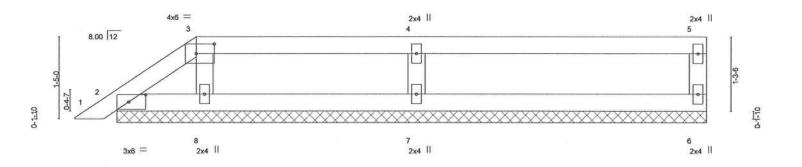
March 13,2018

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



JOHNSON RES. Job Truss Truss Type Qty Ply T13472707 1350577 PR08 Piggyback 1 | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:03 2018 Page 1 Builders FirstSource, Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-FPcbZtbThtXAd7jYseYp3dxY5C5wthIESFyZu7zbdwc 10-11-0 10-11-0

Scale = 1:19.1



1)-11-0						
Plate Offs	ets (X,Y)- [2	2:0-3-9,0-1-8], [3:0-3-12,	0-2-0]								-	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.00	1	n/r	120	(2004)(2002)	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TF	PI2014	Matrix	c-S	100000000000000000000000000000000000000					Weight: 35 lb	FT = 20%

LUMBER-

\$5

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

2x4 SP No.3

BRACING-TOP CHORD

BOT CHORD

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

except end verticals.

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

REACTIONS. All bearings 10-1-14.

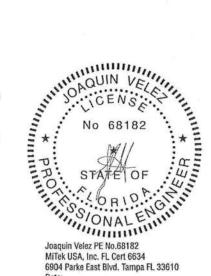
(lb) -Max Horz 2=42(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 8 except 7=-104(LC 8) Max Grav All reactions 250 lb or less at joint(s) 6, 2, 8 except 7=371(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 4-7=-273/281

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 8 except (it=lb) 7=104.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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March 13,2018

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

ANSITIPH 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 JOHNSON RES. T13472708 1350577 PB09 Piggyback Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:04 2018 Page 1 Builders FirstSource, Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-jcAzmCc5SBf1FGlkQM32crUkybRnc9JNgvh7QZzbdwb 8-11-0 4-5-8 4-5-8 Scale = 1:19,9 4x6 = 3 8.00 12 0-4-7 11-10 0-1-10 2x4 = 2x4 = 2x4 || 8-11-0 8-11-0 GRIP SPACING-2-0-0 CSL DEFL. I/defl L/d PLATES LOADING (psf) (loc) Plate Grip DOL 0.00 120 244/190 0.15 Vert(LL) MT20 20.0 1.25 TC TCLL 5 n/r BC 0.01 120 1.25 0.13 Vert(CT) 5 n/r TCDL 7.0 Lumber DOL WB 0.03 Horz(CT) 0.00 Rep Stress Incr YES n/a n/a BCLL 0.0

LUMBER-

BCDL

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

10.0

BRACING-

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

Weight: 30 lb

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

(lb/size) 2=161/7-4-12, 4=161/7-4-12, 6=276/7-4-12 REACTIONS.

Max Horz 2=-71(LC 10)

Max Uplift 2=-47(LC 12), 4=-54(LC 13), 6=-40(LC 12)

Code FBC2017/TPI2014

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



FT = 20%

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March 13,2018

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



JOHNSON RES. Job Truss Type Qtv Ply Truss T13472709 1350577 PB10 Piggyback Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:05 2018 Page 1 Builders FirstSource, Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-BojMzYdjDVnusQtx_3bH921w8?ovLcjWvZRgy?zbdwa 4-11-0 8-11-0 4-11-0 4-0-0 Scale = 1:17.4 4x6 = 4x6 = 8.00 12 5 6 0-4-7 0-4-7 2x4 = 2x4 || 2x4 = 2x4 || 8-11-0 8-11-0 Plate Offsets (X,Y)-[3:0-4-8,0-2-8], [4:0-4-8,0-2-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d PLATES GRIP 20.0 Plate Grip DOL TCLL 1.25 TC 0.12 Vert(LL) 0.00 120 244/190 MT20 n/r TCDL 1.25 BC 0.08 7.0 Lumber DOL Vert(CT) 0.00 6 120 n/r Rep Stress Incr BCLL 0.0 YES WB 0.02 Horz(CT) 0.00 5 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-S FT = 20% Weight: 32 lb LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 2x4 SP No.3

OTHERS

2x4 SP No.3

REACTIONS. All bearings 7-4-12.

(lb) - Max Horz 2=-64(LC 10)

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

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

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.

4) Gable requires continuous bottom chord bearing.

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

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 7, 8.

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

9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

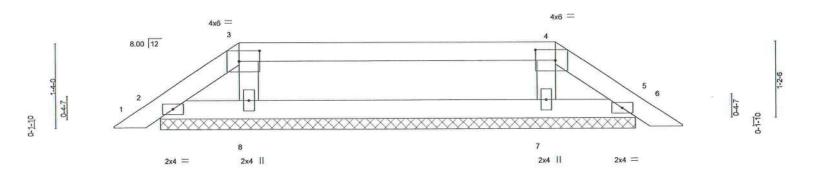
March 13,2018

🗥 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 and not individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent 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
ANSITTP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandra, VA 22314.



JOHNSON RES. Qty Ply Job Truss Truss Type T13472710 1350577 PB11 Piggyback Job Reference (optional) Lake City, FL 32055 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:05 2018 Page 1 Builders FirstSource. ID:ISq1r2C3q1VuguHDMeZA4qzkabx-BojMzYdjDVnusQtx_3bH921u8?o7Lc7WvZRgy?zbdwa 8-11-0 8-11-0

Scale = 1:17.4



	1					8-11-0						4
	-					8-11-0						
Plate Offse	ets (X,Y)-	[3:0-3-12,0-2-0], [4:0-3-12	2,0-2-0]									
LOADING TCLL TCDL	(psf) 20.0 7.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI. TC BC	0.25 0.13	DEFL. Vert(LL) Vert(CT)	in -0.00 -0.00	(loc) 5 5	I/defl n/r n/r	L/d 120 120	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0 *	Rep Stress Incr Code FBC2017/TI	YES PI2014	WB Matrix	0.06 <-S	Horz(CT)	0.00	5	n/a	n/a	Weight: 27 lb	FT = 20%

LUMBER-

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

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

REACTIONS. All bearings 7-4-12.

(lb) - Max Horz 2=-30(LC 10)

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

Max Grav All reactions 250 lb or less at joint(s) 2, 5 except 8=264(LC 23), 7=264(LC 24)

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

NOTES- (9)

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.

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

- 6) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 8, 7.

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

9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

March 13,2018

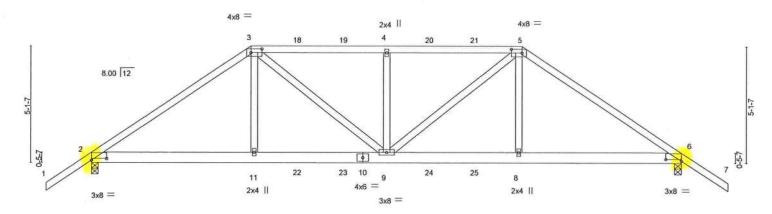
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIN-7473 rev. 10/03/2015 BEFORE USE.

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 MSITIPH 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 JOHNSON RES. T13472711 1350577 T01 Hip Girder | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:07 2018 Page 1 Builders FirstSource Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-7Br6OEezI61b6k1J5UdlET623pM8pPCpMtwn1uzbdwY -2-0-0 7-0-0 12-11-8 18-11-0 25-11-0 27-11-0 2-0-0 7-0-0 5-11-8 5-11-8 7-0-0 2-0-0

Scale = 1:48,7



	1	7-0-0		12-	11-8		18-11-0)	1		25-11-0	1
	30	7-0-0		5-	11-8		5-11-8	2	- 1		7-0-0	1
Plate Offse	ets (X,Y)-	[2:0-8-0,0-0-14], [3:0-5-12	2,0-2-0], [5:0-5	-12,0-2-0], [6	:0-8-0,0-0-14	1						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.99	Vert(LL)	0.16	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.22	9-11	>999	180	03/2003202	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.06	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TI	PI2014	Matri	x-MS	11.000000000000000000000000000000000000					Weight: 151 lb	FT = 20%

LUMBER-

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

BRACING-TOP CHORD

Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied or 6-3-3 oc bracing.

REACTIONS. (lb/size) 2=1949/0-3-8, 6=1949/0-3-8

Max Horz 2=-154(LC 25)

Max Uplift 2=-1009(LC 8), 6=-1009(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2949/1635, 3-4=-3011/1670, 4-5=-3011/1670, 5-6=-2949/1635 **BOT CHORD** 2-11=-1358/2361, 9-11=-1368/2382, 8-9=-1281/2382, 6-8=-1271/2361 3-11=-372/747, 3-9=-457/869, 4-9=-439/309, 5-9=-457/869, 5-8=-373/747 WEBS

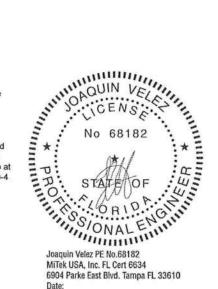
NOTES-

- 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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1009, 6=1009.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 144 lb down and 254 lb up at 7-0-0, 74 lb down and 65 lb up at 9-0-12, 74 lb down and 65 lb up at 11-0-12, 74 lb down and 65 lb up at 12-11-8, 74 lb down and 65 lb up at 14-10-4, and 74 lb down and 65 lb up at 16-10-4, and 144 lb down and 254 lb up at 18-11-0 on top chord, and 401 lb down and 371 lb up at 7-0-0, 158 lb down and 76 lb up at 9-0-12, 158 lb down and 76 lb up at 11-0-12, 158 lb down and 76 lb up at 12-11-8, 158 lb down and 76 lb up at 14-10-4, and 158 lb down and 76 lb up at 16-10-4, and 401 lb down and 371 lb up at 18-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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, 5-7=-54, 12-15=-20



6904 Parke East Blvd. Tampa FL 33610

March 13,2018

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Job	Truss	Truss Type	Qty	Ply	JOHNSON RES.	T13472711
1350577	T01	Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource,

Lake City, FL 32055

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:07 2018 Page 2 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-7Br6OEezl61b6k1J5UdlET623pM8pPCpMtwn1uzbdwY

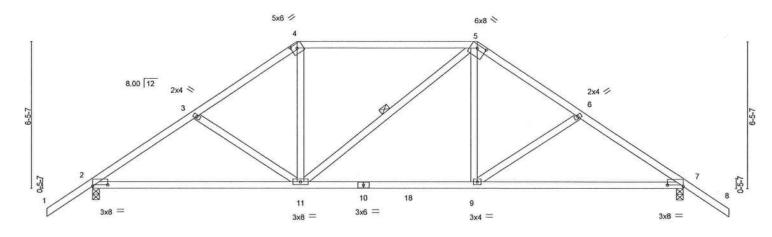
LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 3=-97(B) 5=-97(B) 11=-367(B) 9=-145(B) 4=-22(B) 8=-367(B) 18=-22(B) 19=-22(B) 20=-22(B) 21=-22(B) 22=-145(B) 23=-145(B) 24=-145(B) 25=-145(B)



Job Truss Truss Type Qty Ply JOHNSON RES T13472712 1350577 T02 Hip Job Reference (optional) Lake City, FL 32055 Builders FirstSource. 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:08 2018 Page 1 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-bNPUcafcWQ9SjubVfB8_mhfJiDgVYwlzbXfKZKzbdwX -2-0-0 9-0-0 2-0-0 4-5-1 7-11-0 4-5-1 4-6-15 2-0-0 4-6-15

Scale = 1:48.7



	1	9-0-0		- 1		16-11-0		7		25-	11-0	1	
	1	9-0-0		1		7-11-0		- 1		9-	0-0		
Plate Off	sets (X,Y)-	[2:0-8-0,0-0-10], [4:0-3-0,	0-2-3], [5:0-4-8	3,0-1-12], [7:	0-8-0,0-0-1	0]					1		
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.14	9-17	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.28	9-17	>999	180			
BCLL BCDL	0.0 *	Rep Stress Incr Code FBC2017/T	YES PI2014	WB Matri	0.20 x-AS	Horz(CT)	0.04	7	n/a	n/a	Weight: 137 lb	FT = 20%	

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

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

2x4 SP No.3

REACTIONS. (lb/size) 2=1067/0-3-8, 7=1067/0-3-8

Max Horz 2=-188(LC 10)

Max Uplift 2=-222(LC 12), 7=-222(LC 13)

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

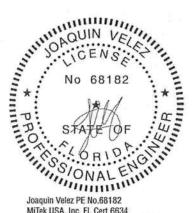
TOP CHORD 2-3=-1383/653, 3-4=-1185/596, 4-5=-945/568, 5-6=-1185/596, 6-7=-1383/653

2-11=-380/1097, 9-11=-232/945, 7-9=-400/1097 **BOT CHORD**

3-11=-332/204, 4-11=-58/386, 5-9=-62/386, 6-9=-332/203 **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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=222, 7=222.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

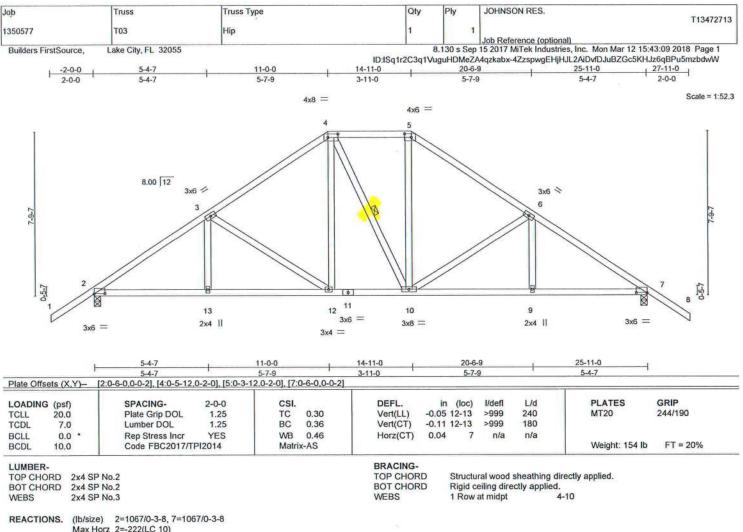
March 13,2018

MARNING - 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 and reference PAGE MIN-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

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.





Max Horz 2=-222(LC 10)

Max Uplift 2=-233(LC 12), 7=-233(LC 13)

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

2-3=-1415/619, 3-4=-1062/557, 4-5=-892/536, 5-6=-1063/557, 6-7=-1414/619 TOP CHORD

2-13=-349/1118, 12-13=-349/1118, 10-12=-136/813, 9-10=-368/1113, 7-9=-368/1113 **BOT CHORD**

3-12=-514/278, 4-12=-123/363, 5-10=-121/361, 6-10=-512/277 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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=233, 7=233
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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March 13,2018

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ANSI/TPI 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 Type JOHNSON RES. Truss Qty Ply T13472714 1350577 T04 Common | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:10 2018 Page 1 Builders FirstSource. Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-YmXF1Ggs11PAzClumcASs6khf0IV0nSF3r8ReDzbdwV -2-0-0 18-6-10 25-11-0 27-11-0 7-4-6 12-11-8 2-0-0 7-4-6 5-7-2 5-7-2 7-4-6 2-0-0 Scale = 1:58.5 4x6 || 8.00 12 5x6 / 5x6 > 9 17 10 8 5x6 = 3x6 < 3x6 = 3x6 = 3x6 / 7-4-6 18-6-10 25-11-0 7-4-6 11-2-4 7-4-6 Plate Offsets (X,Y)-[2:0-1-0,0-1-8], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-1-0,0-1-8] LOADING (psf) SPACING-DEFL. 2-0-0 CSI. in (loc) I/defl L/d PLATES GRIP 20.0 Plate Grip DOL TCLL 1.25 TC 0.45 Vert(LL) -0.26 8-10 >999 240 244/190 MT20 TCDL 7.0 1.25 BC 0.94 Lumber DOL Vert(CT) -0.508-10 >620 180 BCLL 0.0 Rep Stress Incr NO WB 0.44 Horz(CT) 0.03 6 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-AS FT = 20%Weight: 158 lb LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** 2x6 SP No.2 *Except* **BOT CHORD** Rigid ceiling directly applied. 6-9: 2x6 SP M 26 WEBS 1 Row at midpt

WEBS 2x4 SP No.3

REACTIONS. (lb/size) 2=1403/0-3-8, 6=1403/0-3-8

Max Horz 2=-254(LC 10)

Max Uplift 2=-334(LC 12), 6=-334(LC 13) Max Grav 2=1427(LC 19), 6=1426(LC 20)

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

TOP CHORD 2-3=-2143/883, 3-4=-2220/1114, 4-5=-2240/1119, 5-6=-2175/889 BOT CHORD

2-10=-532/1861, 8-10=-208/1148, 6-8=-550/1749 WEBS 4-8=-619/1353, 5-8=-440/375, 4-10=-611/1306, 3-10=-446/378

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=334 6=334
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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, 10-11=-20, 8-10=-80(F=-60), 8-14=-20



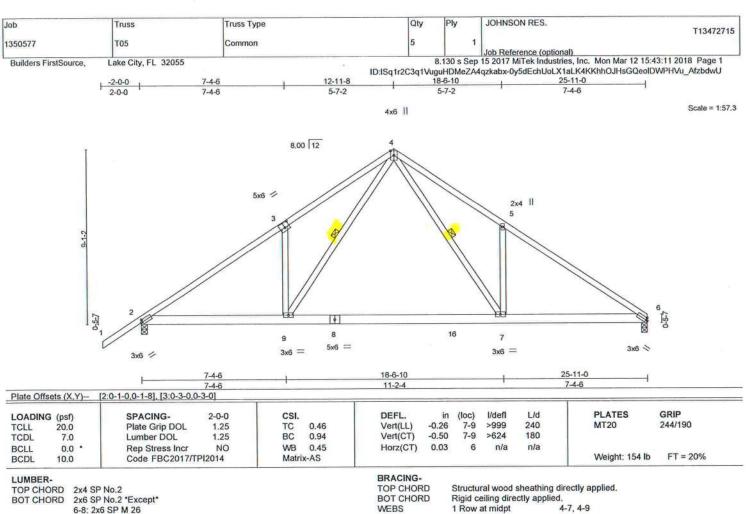
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd, Tampa FL 33610 Date:

March 13,2018

MARNING - 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 and not individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent 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

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WEBS 2x4 SP No.3

REACTIONS. (lb/size) 6=1290/0-3-8, 2=1407/0-3-8

Max Horz 2=243(LC 9)

Max Uplift 6=-293(LC 13), 2=-334(LC 12) Max Grav 6=1322(LC 20), 2=1429(LC 19)

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

2-3=-2146/894, 3-4=-2227/1125, 4-5=-2242/1151, 5-6=-2196/913 2-9=-608/1846, 7-9=-273/1134, 6-7=-622/1740 TOP CHORD

BOT CHORD 4-7=-647/1384, 5-7=-443/384, 4-9=-607/1305, 3-9=-447/379 WEBS

NOTES-(8)

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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, 9-13=-20, 7-9=-80(F=-60), 7-10=-20

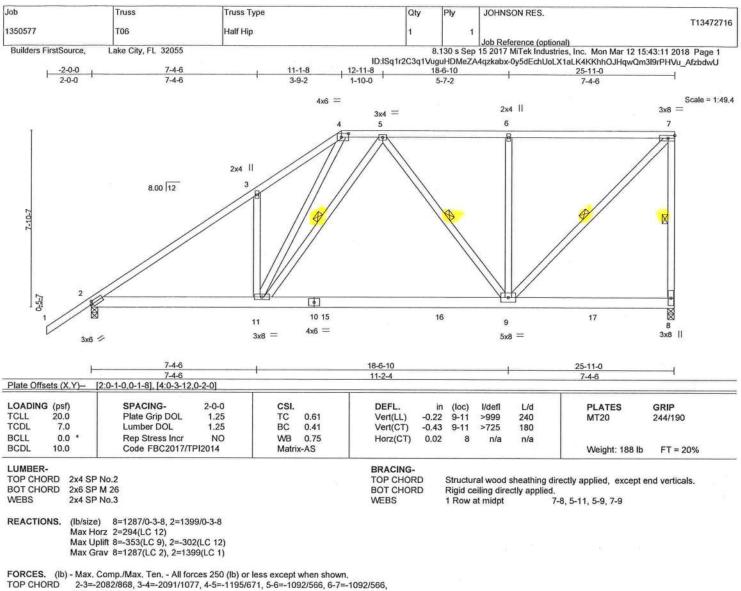


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March 13,2018

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7-8=-1292/713

BOT CHORD 2-11=-930/1700, 9-11=-670/1182

WEBS 3-11=-409/345, 6-9=-404/318, 7-9=-802/1555, 4-11=-577/1126

NOTES- (8)

- Wind: ASCÉ 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=353, 2=302.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-7=-54, 11-12=-20, 9-11=-80(F=-60), 8-9=-20



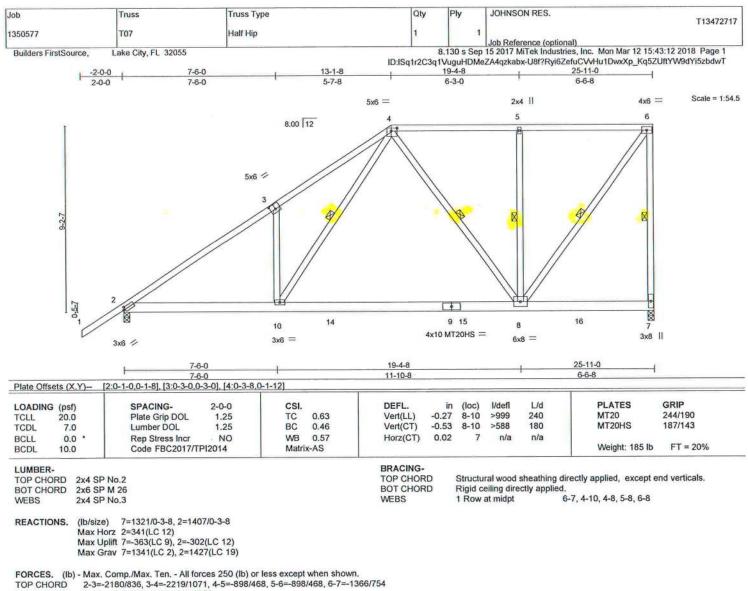
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 13,2018

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BOT CHORD 2-10=-970/1809, 8-10=-604/1052

3-10=-464/387, 4-10=-664/1392, 4-8=-327/235, 5-8=-383/300, 6-8=-789/1526 WEBS

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=363, 2=302. 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
- sheetrock be applied directly to the bottom chord. 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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, 10-11=-20, 8-10=-80(F=-60), 7-8=-20

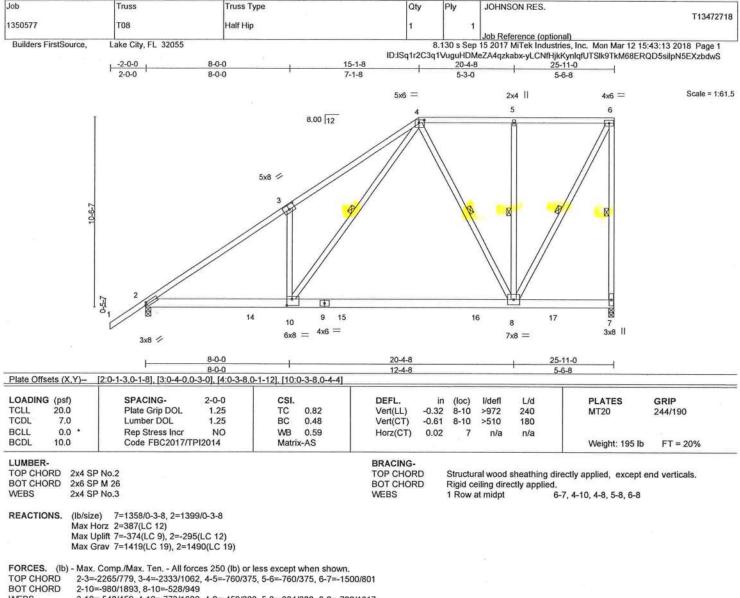


Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 13,2018

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WEBS

3-10=-548/459, 4-10=-773/1630, 4-8=-459/333, 5-8=-304/233, 6-8=-793/1617

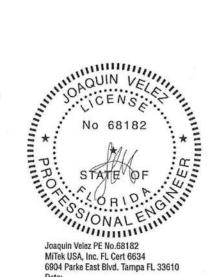
NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=374, 2=295.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code,

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, 10-11=-20, 8-10=-80(F=-60), 7-8=-20



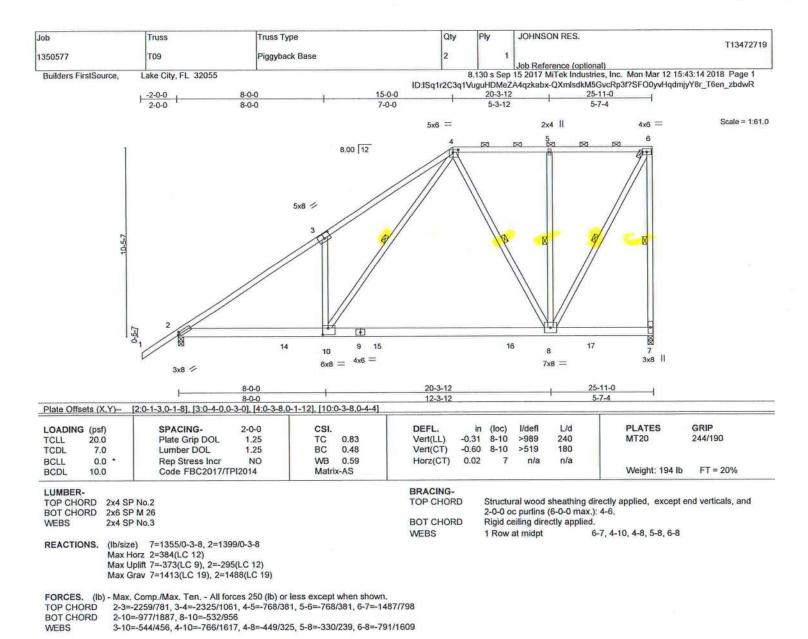
6904 Parke East Blvd, Tampa FL 33610

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(10)

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=373, 2=295.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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, 10-11=-20, 8-10=-80(F=-60), 7-8=-20



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

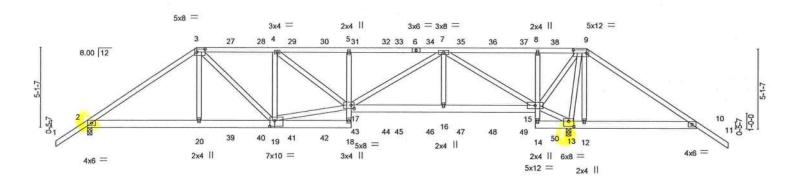
March 13,2018

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



Job	Truss		Truss Type		Qty	Ply	JOHNSON RES.		
1350577	T10		Hip Girder		1	2			T1347272
			100				Job Reference (optional)		
Builders FirstSource,	Lake City, FL	32055					15 2017 MiTek Industries,		
				ID:IS	q1r2C3q	1VuguHDMe	ZA4qzkabx-nUaevLnVwo`	YuYaxdo?rZj?cFdeS	bdlTa7lqPSBzbdwM
1 -2-0-0	7-0-0	12-0-0	16-10-8	22-9-0	1	28-7-8	31-11-0	38-11-0	40-11-0
2-0-0	7-0-0	5-0-0	4-10-8	5-10-8	.	5-10-8	3-3-8	7-0-0	2-0-0

Scale = 1:71.1



		7-0-0	12-0-0	16-10-8	E-	22-9-0	28-7-	8	30-9-431-11-0	38-11-0	T.
	1	7-0-0	5-0-0	4-10-8	-	5-10-8	5-10-	8	2-1-12 1-1-12	7-0-0	
Plate Offs	ets (X,Y)-	[3:0-6-4,0-2-4], [9:0-10-4	.0-2-4], [13:0-4	-0,0-4-0], [17	:0-2-4,0-2-1	2], [19:0-3-12,0-4-	3]			29.20%	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	0.18 16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.27 16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.09 1	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MS				200777347	Weight: 517 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

2x6 SP No.2 *Except* BOT CHORD

5-18,8-14: 2x4 SP No.3

2x4 SP No.3 WEBS

REACTIONS. (lb/size) 2=2279/0-3-8, 13=3288/0-3-8

Max Horz 2=154(LC 32)

Max Uplift 2-1092(LC 8), 13=-1648(LC 9) Max Grav 2=2342(LC 19), 13=3346(LC 42)

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

2-3=-3634/1814, 3-4=-3947/1921, 4-5=-5131/2384, 5-7=-5184/2406, 7-8=-1116/661, TOP CHORD

8-9=-1075/650, 9-10=-195/724

BOT CHORD 2-20=-1527/2929, 19-20=-1538/2948, 18-19=-177/371, 5-17=-294/174, 16-17=-1804/4103,

15-16=-1804/4103, 8-15=-279/174, 12-13=-545/284, 10-12=-526/279

WEBS 3-20=-361/696, 3-19=-590/1377, 4-19=-1271/597, 17-19=-1767/3656, 4-17=-590/1509,

7-17=-692/1394, 7-16=-309/896, 7-15=-3633/1611, 13-15=-932/479, 9-15=-1131/2616,

9-13=-2020/1004, 9-12=-664/260

NOTES-

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

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

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

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); cantilever right exposed; Lumber DOL=1.60 plate grip DOL=1.60

5) Provide adequate drainage to prevent water ponding.

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

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

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1092, 13=1648.



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

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

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

March 13,2018

MARNING - 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 and recommendation 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 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.



Job	Truss	Truss Type	Qty	Ply	JOHNSON RES. T134	72720
1350577	T10	Hip Girder	1	2	Job Reference (optional)	Page 1991)

Builders FirstSource,

Lake City, FL 32055

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:19 2018 Page 2 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-nUaevLnVvoYuYaxdo?rZj?cFdeSbdlTa7lqPSBzbdwM

NOTES- (10)

- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 144 lb down and 254 lb up at 7-0-0, 74 lb down and 65 lb up at 9-0-12, 74 lb down and 65 lb up at 11-0-12, 74 lb down and 65 lb up at 11-0-12, 74 lb down and 65 lb up at 11-0-12, 52 lb down and 32 lb up at 11-0-12, 52 lb down and 32 lb up at 11-0-12, 52 lb down and 32 lb up at 11-0-12, 52 lb down and 32 lb up at 11-0-12, 52 lb down and 32 lb up at 11-0-12, 52 lb down and 32 lb up at 11-0-12, 52 lb down and 32 lb up at 11-0-12, 52 lb down and 32 lb up at 11-0-12, 52 lb down and 32 lb up at 11-0-12, 52 lb down and 32 lb up at 11-0-12, 52 lb down and 32 lb up at 11-0-12, 52 lb down and 32 lb up at 11-0-12, 158 lb down and 37 lb up at 11-0-12, 158 lb down and 76 lb up at 11-0-12, 158 lb down and 76 lb up at 11-0-12, 158 lb down and 76 lb up at 11-0-12, 158 lb down and 103 lb up at 11-0-12, 158 l
- 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 3-9=-54, 9-11=-54, 18-21=-20, 15-17=-20, 14-24=-20

Concentrated Loads (lb)

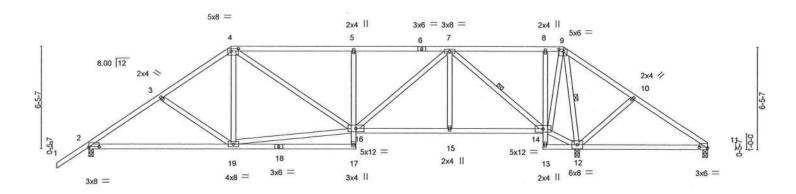
Vert: 3=-97(F) 20=-367(F) 9=-96(F) 12=207(F) 27=-22(F) 28=-22(F) 29=-22(F) 30=-22(F) 38=-22(F) 39=-145(F) 40=-145(F) 41=-145(F) 42=-145(F) 43=-183(F)

44=-183(F) 45=-183(F) 46=-183(F) 47=-183(F) 48=-183(F) 49=-183(F) 50=-145(F)



Job		Truss	Truss Type	(Qty	Ply	JOHNSON RES.			c 1700-00000-0010000
1350577		T11	Hip		1	1				T13472721
Production (ACA)		2022.5					Job Reference (or	otional)		
Builders FirstSo	urce, La	ake City, FL 32055							on Mar 12 15:43:20 20	
				ID:ISq1r20	3q1Vug	JHDMeZA-	4qzkabx-Fh717ho7	h6gl9kWpMjMc	GD9Oy2njMHGkMPZ	z ezbdwL
1-2-0-0	4-7-11	9-0-0	16-10-8	22-9-0	1	28-7-8	29-11-0	34-3-5	38-11-0	0.000
2-0-0	4-7-11	4-4-5	7-10-8	5-10-8		5-10-8	1-3-8	4-4-5	4-7-11	

Scale = 1:69.9



	1	9-0-0	1	16-10-8	- 1	22-9-0	0	28-7-	8	30-9-4	38-11-0	
	1	9-0-0		7-10-8		5-10-8	-1	5-10-8	В	2-1-12	8-1-12	- 1
Plate Offs	ets (X,Y)-	[2:0-8-0,0-0-6], [4:0-5-8,0	-1-12], [9:0-3-8	3,0-1-12]. [11	:0-6-0,0-0-1	0]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.12	19-25	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.25	19-25	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.06	12	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-AS					C7476744	Weight: 239 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

7-14 9-12

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

5-17,8-13: 2x4 SP No.3

2x4 SP No.3 WEBS

11=-208/0-3-8, 2=1116/0-3-8, 12=2079/0-3-8 REACTIONS. (lb/size)

Max Horz 2=176(LC 9)

Max Uplift 11=-357(LC 23), 2=-225(LC 12), 12=-400(LC 8) Max Grav 11=203(LC 9), 2=1119(LC 23), 12=2079(LC 1)

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

2-3=-1477/708, 3-4=-1281/654, 4-5=-1297/744, 5-7=-1295/736, 7-8=-86/300, TOP CHORD

8-9=-92/318, 9-10=-353/917, 10-11=-303/787

BOT CHORD 2-19=-498/1173, 5-16=-403/310, 15-16=-210/770, 14-15=-210/770, 8-14=-268/169,

3-19=-328/207, 4-19=-22/320, 16-19=-319/931, 4-16=-187/414, 7-16=-347/696, 7-15=0/268, 7-14=-1392/676, 12-14=-537/486, 9-14=-375/943, 9-12=-1459/641,

10-12=-345/262

WEBS

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=357, 2=225, 12=400.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

March 13,2018

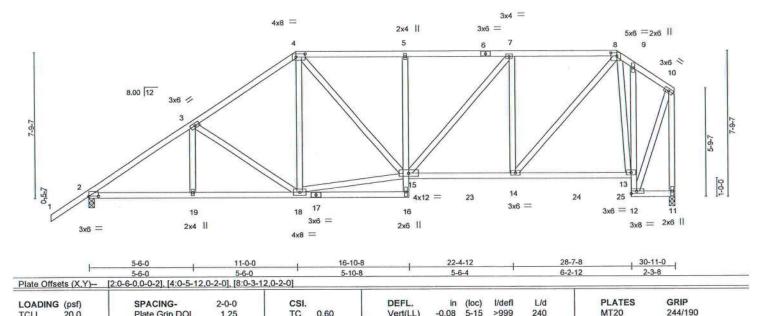
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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

ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N, Lee Street, Suite 312, Alexandria, VA 22314.



Qty JOHNSON RES. Ply Job Truss Truss Type T13472722 Hip 1350577 T12 Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:22 2018 Page 1 Lake City, FL 32055 Builders FirstSource. ID:ISq1r2C3q1VuguHDMeZA4qzkabx-B3FnYMqODjwTP2gCT8OGLeEiMsRnq8M1pj243WzbdwJ 16-10-8 22-4-12 27-11-0 28-7-8 30-11-0 0-8-8 2-3-8 5-6-0 11-0-0 -2-0-0 2-0-0 5-6-0 5-10-8 5-6-4 5-6-4 5-6-0

Scale = 1:58.8



Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.08 5-15

0.12

-0.16 13-14

11

>999

>999

n/a

Rigid ceiling directly applied.

240

180

n/a

MT20

Structural wood sheathing directly applied, except end verticals.

Weight: 226 lb

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2

20.0

7.0

0.0

10.0

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

5-16.9-12: 2x4 SP No.3

WEBS 2x4 SP No.3

2=1250/0-3-8, 11=1135/0-3-8 REACTIONS. (lb/size)

Max Horz 2=249(LC 12)

Max Uplift 2=-248(LC 12), 11=-215(LC 9)

Plate Grip DOL

Rep Stress Incr

Code FBC2017/TPI2014

Lumber DOL

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

2-3=-1723/752, 3-4=-1392/700, 4-5=-1348/776, 5-7=-1352/778, 7-8=-1102/636, 8-9=-419/271, 9-10=-436/233, 10-11=-1190/599 TOP CHORD

2-19=-782/1366, 18-19=-782/1366, 5-15=-324/242, 14-15=-545/1102, 13-14=-219/453, BOT CHORD

1.25

1.25

YES

TC

BC

WB

Matrix-AS

0.60

0.72

0.70

12-13=-797/405

WEBS 3-18=-494/267, 4-18=-33/254, 15-18=-537/1023, 4-15=-187/463, 7-15=-215/388,

7-14=-610/412, 8-14=-504/1006, 8-13=-739/391, 10-12=-455/948

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=248, 11=215.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



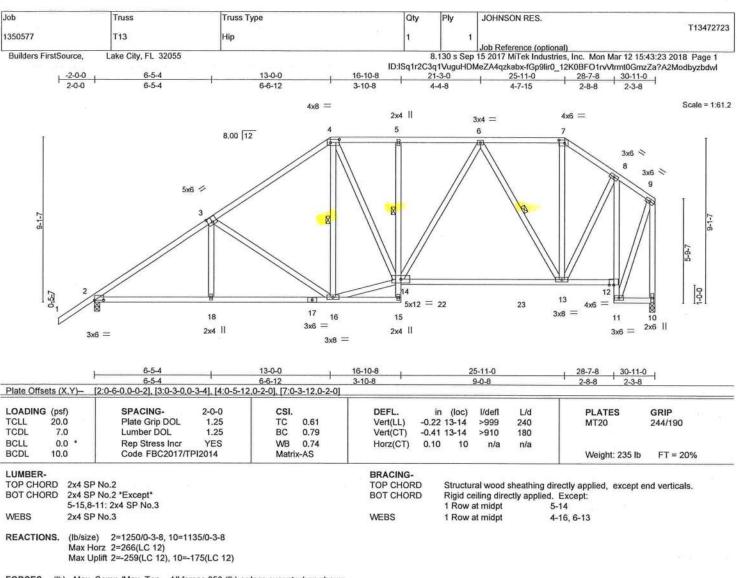
MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 13,2018

MARNING - 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 occlapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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





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

TOP CHORD

2-3=-1708/736, 3-4=-1281/657, 4-5=-1116/682, 5-6=-1122/684, 6-7=-630/424,

7-8=-780/457, 8-9=-430/230, 9-10=-1168/588

BOT CHORD 2-18=-757/1348, 16-18=-757/1348, 13-14=-462/954, 12-13=-166/341, 11-12=-799/398,

WEBS 3-18=0/268, 3-16=-607/337, 14-16=-440/1080, 4-14=-151/425, 6-14=-137/367,

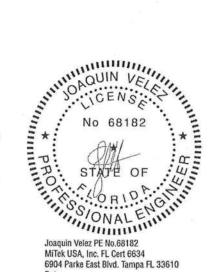
6-13=-669/384, 7-13=-100/259, 8-13=-226/654, 9-11=-446/926

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.

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

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=259, 10=175.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



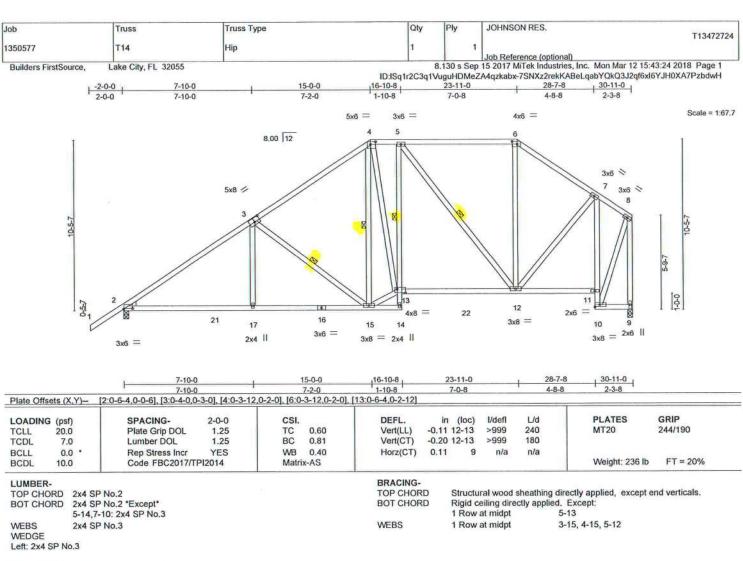
6904 Parke East Blvd. Tampa FL 33610 Date:

March 13,2018

MARNING - 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 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 parament bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





REACTIONS. (lb/size) 2=1250/0-3-8, 9=1135/0-3-8

Max Horz 2=283(LC 12)

Max Uplift 2=-267(LC 12), 9=-192(LC 12)

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

2-3=-1663/706, 3-4=-1179/632, 4-5=-973/643, 5-6=-732/500, 6-7=-896/516, TOP CHORD

7-8=-431/222, 8-9=-1181/579

2-17=-707/1401, 15-17=-708/1398, 5-13=-113/315, 12-13=-432/969, 11-12=-173/358, BOT CHORD

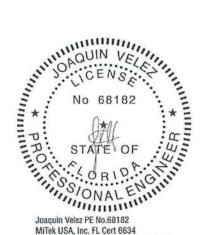
10-11=-809/410, 7-11=-793/430

3-17=0/312, 3-15=-692/397, 13-15=-385/1100, 4-13=-175/551, 5-12=-515/242, 6-12=-32/252, 7-12=-171/516, 8-10=-460/952

WEBS

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=267, 9=192. 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
- sheetrock be applied directly to the bottom chord. 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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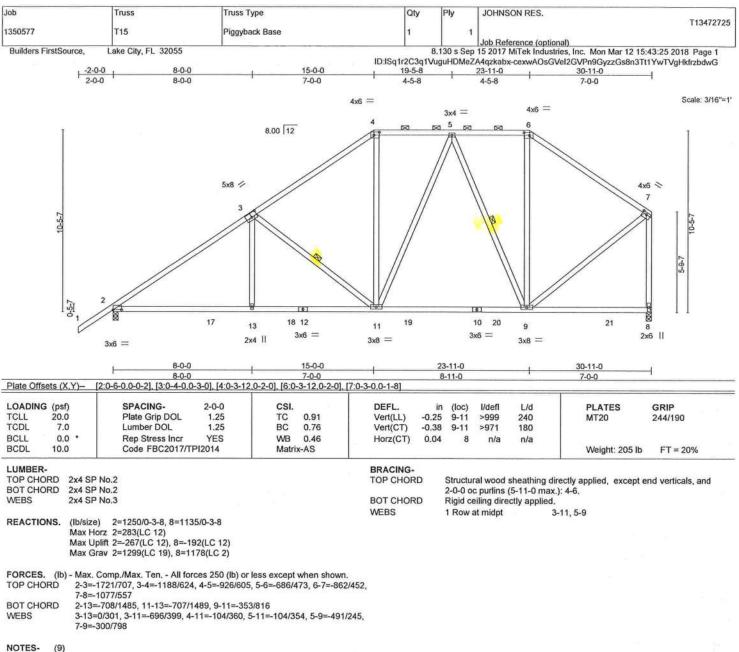
March 13,2018

MARNING - 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

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.



6904 Parke East Blvd.



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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.

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

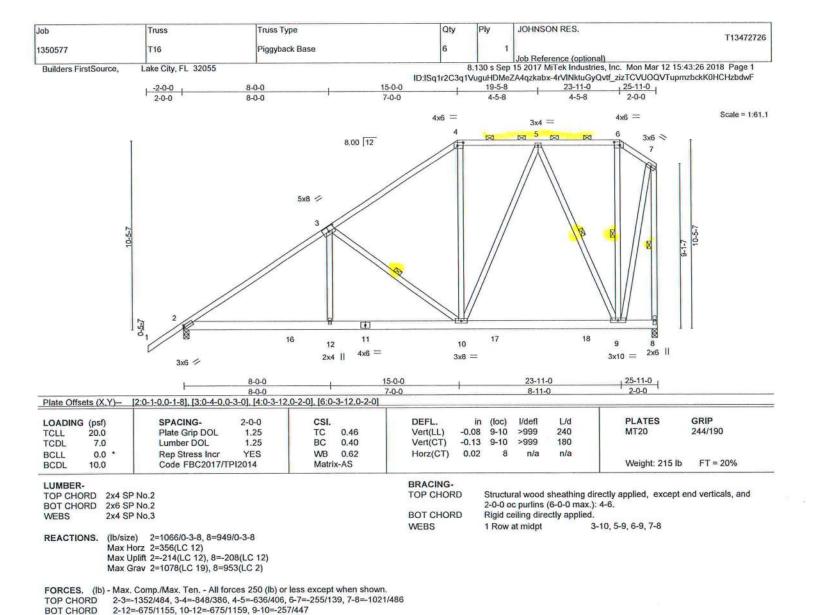
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=267, 8=192.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

March 13,2018





NOTES-

WEBS

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3-12=0/319, 3-10=-711/406, 5-10=-229/510, 5-9=-677/426, 7-9=-397/880

5) * This truss has been designed for a live load of 20,0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=214 8=208. 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum

sheetrock be applied directly to the bottom chord. 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

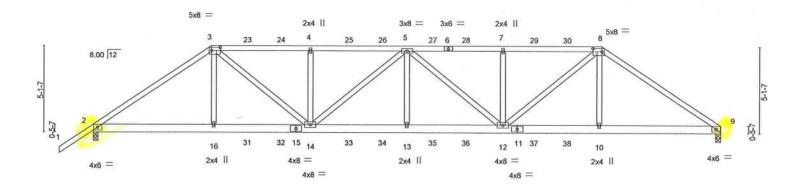
March 13,2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design vall for use only with MTLe®s connectors. This design is based only upon parameters and necessary and several building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer prevent buckling of individual truss web and/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent occliapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type		Qty	Ply	JOHNSON RES.		
1350577	T17	Hip Girder		1	2			T13472727
Duildess FirstCauses	Later City Et 20055					Job Reference (optional)		
Builders FirstSource,	Lake City, FL 32055			ID:ISa1r2C3a1		15 2017 MiTek Industries, 44qzkabx-yckpD5wPKAwLN		
-2-0-0	7-0-0	12-10-2	18-6-8	1 24-2		30-1-0	37-1-0	CIY_VLZZDOWB
2-0-0	7-0-0	5-10-2	5-8-6	5-8	-6	5-10-2	7-0-0	

Scale = 1:65,6



	1	7-0-0	12-10-2	18-6-8	24-2-14	30-1-0	37-1-0	-
		7-0-0	5-10-2	5-8-6	5-8-6	5-10-2	7-0-0	
Plate Offse	ets (X,Y)-	[3:0-6-4,0-2-4], [8:0-6-4,0	-2-4]		913W999			
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES GRI	P
TCLL	20.0	Plate Grip DOL	1.25	TC 0.50	Vert(LL) 0.23 13	>999 240	100 m 200 m	/190
TCDL	7.0	Lumber DOL	1.25	BC 0.60	Vert(CT) -0.33 12-13	>999 180	0-0-1 20-0-0-1	
BCLL	0.0	Rep Stress Incr	NO	WB 0.44	Horz(CT) 0.08 9	n/a n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matrix-MS			Weight: 448 lb F	T = 20%

LUMBER-

WEBS

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

2x4 SP No.3

BRACING-TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or 4-11-9 oc purlins.

Rigid ceiling directly applied or 9-3-11 oc bracing.

(lb/size) 9=2753/0-3-8, 2=2867/0-3-8 REACTIONS.

Max Horz 2=142(LC 24)

Max Uplift 9=-1347(LC 9), 2=-1387(LC 8)

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

TOP CHORD 2-3=-4575/2347, 3-4=-5471/2761, 4-5=-5471/2761, 5-7=-5477/2763, 7-8=-5477/2763, 8-9=-4597/2354

BOT CHORD 2-16=-1991/3710, 14-16=-2002/3730, 13-14=-3001/6056, 12-13=-3001/6056,

10-12=-1894/3751, 9-10=-1884/3730

WEBS 3-16=-371/739, 3-14=-1078/2296, 4-14=-404/282, 5-14=-777/359, 5-13=-173/663,

5-12=-771/356, 7-12=-404/282, 8-12=-1074/2288, 8-10=-383/745

NOTES-(10)

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

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

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

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

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

4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60

5) Provide adequate drainage to prevent water ponding.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=1347, 2=1387.



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

March 13,2018

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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.



Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	JOHNSON RES. T13472727
1350577	T17	Hip Girder	1	2	Job Reference (optional)

Builders FirstSource.

Lake City, FL 32055

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:30 2018 Page 2 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-yckpD5wPKAwLMGHkxpX8gKZ5y4CXiqSCfy_VL2zbdwB

NOTES- (10)

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 144 lb down and 254 lb up at 7-0-0, 74 lb down and 65 lb up at 9-0-12, 74 lb down and 65 lb up at 11-0-12, 74 lb down and 65 lb up at 13-0-12, 74 lb down and 65 lb up at 15-0-12, 74 lb down and 65 lb up at 17-0-12, 74 lb down and 65 lb up at 18-6-8, 74 lb down and 65 lb up at 22-0-4, 74 lb down and 65 lb up at 28-0-4, and 144 lb down and 254 lb up at 30-1-0 on top chord, and 401 lb down and 371 lb up at 7-0-0, 158 lb down and 76 lb up at 9-0-12, 158 lb down and 76 lb up at 11-0-12, 158 lb down and 76 lb up at 11-0-12, 158 lb down and 76 lb up at 158 lb down and 76 lb up at 12-0-4, 158 lb down and 76 lb up at 12-0-4, 158 lb down and 76 lb up at 12-0-4. The lb down and 76 lb up at 12-0-4, 158 lb down and 76 lb up at 12-0-4. The lb down and 76 lb up at 12-0-4, and 158 lb down and 76 lb up at 12-0-4, and 158 lb down and 76 lb up at 12-0-4, and 158 lb down and 76 lb up at 12-0-4, and 158 lb down and 371 lb up at 30-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 3-8=-54, 8-9=-54, 17-20=-20

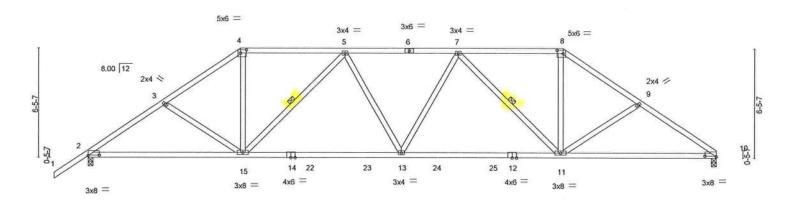
Concentrated Loads (lb)

Vert: 3=97(F) 8=97(F) 16=-367(F) 14=-145(F) 4=-22(F) 13=-145(F) 5=-22(F) 7=-22(F) 12=-145(F) 10=-367(F) 23=-22(F) 24=-22(F) 25=-22(F) 26=-22(F) 27=-22(F) 28=-22(F) 30=-22(F) 31=-145(F) 32=-145(F) 33=-145(F) 35=-145(F) 36=-145(F) 37=-145(F) 38=-145(F)



Job	Truss		Truss Type	Q	Qty	Ply	JOHNSON RES.				
1350577	T18		Hip	1		1				T13472728	
							Job Reference	e (optional)			
Builders FirstSou	urce, Lake City	y, FL 32055						Industries, Inc. Mon N			
				ID:ISq1r2C3	3q1Vugu	HDMeZA4	lqzkabx-QolBF	RRx15U2B_QswVX2N0	CX6HuUStRJyLuck2	2tVzbdwA	
-2-0-0	4-6-15	9-0-0	15-2-7	21-10-9		28	8-1-0	32-6-1	37-1-0	1	
2-0-0	4-6-15	4-5-1	6-2-7	6-8-1		6	5-2-7	4-5-1	4-6-15		

Scale = 1:65.5



	9-0-0		ř.	18-6-8	T.	28-1-0		37-1-0			
			18	9-6-8	- 1	9-6-8			9-0-0		
Plate Offs	ets (X,Y)-	[2:0-8-0,0-0-6], [4:0-4-4,0	-2-4], [8:0-4-4,	0-2-4], [10:0-8-0,0-0-6]							
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC 0.42	Vert(LL)	-0.24 13-15	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC 0.98	Vert(CT)	-0.45 13-15	>999	180	1000000		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.29	Horz(CT)	0.11 10	n/a	n/a			
BCDL	10.0	Code FBC2017/T	PI2014	Matrix-AS	2 STOTE (1997)				Weight: 198 lb	FT = 20%	

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

5-15. 7-11

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

WEBS

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

2x4 SP No.3

(lb/size) 10=1369/0-3-8, 2=1483/0-3-8

Max Horz 2=176(LC 11)

Max Uplift 10=-240(LC 8), 2=-273(LC 12)

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

TOP CHORD

REACTIONS.

2-3=-2114/1019, 3-4=-1915/958, 4-5=-1556/869, 5-7=-2062/1110, 7-8=-1566/877,

8-9=-1929/970, 9-10=-2137/1039

BOT CHORD

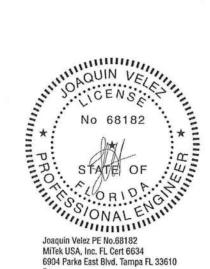
2-15=-756/1697, 13-15=-840/2008, 11-13=-843/2012, 10-11=-780/1726

3-15=-326/212, 4-15=-314/761, 5-15=-710/366, 7-11=-705/356, 8-11=-324/771, 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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=240, 2=273.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



6904 Parke East Blvd. Tampa FL 33610

March 13,2018

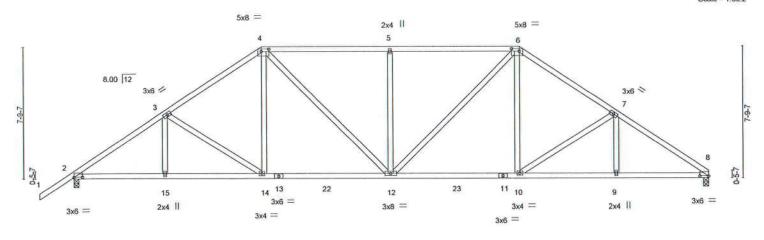
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MTE(8) connectors. This design is based only upon parameters and individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and 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 designer and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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JOHNSON RES. Qty Ply Job Truss Truss Type T13472729 1350577 T19 Hip | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:33 2018 Page 1 Lake City, FL 32055 Builders FirstSource, ID:ISq1r2C3q1VuguHDMeZA4qzkabx-NBQxr7yHd5JvDk0Jdx5rHyBc8IDavAleLwD9yNzbdw8 -2-0-0 31-8-9 37-1-0 11-0-0 18-6-8 26-1-0 5-4-7 5-4-7 5-7-9 7-6-8 7-6-8 5-7-9 5-4-7 2-0-0

Scale = 1:65.2



1	5-4-7	11-0-0		18-6-8	i	26-1-0	0	- 1	31-8-	9 1 37	-1-0
	5-4-7	5-7-9		7-6-8		7-6-8			5-7-9	5-	4-7
sets (X,Y)-	[2:0-6-0,0-0-2], [4:0-5-8,	0-1-12], [6:0-5-8	3,0-1-12], [8:0	-6-0,0-0-2]		100.0000					
G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.14 1	0-12	>999	240	MT20	244/190
7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.27 1	0-12	>999	180	0.000000	
0.0 *	Rep Stress Incr Code FBC2017/	YES TPI2014	WB Matrix	0.49 c-AS	Horz(CT)	0.09	8	n/a	n/a	Weight: 213 lb	FT = 20%
	G (psf) 20.0 7.0 0.0 *	Sets (X,Y)— 2:0-6-0.0-0-2], [4:0-5-8, [4:0-5-8] G (psf) SPACING- 20.0 Plate Grip DOL Lumber DOL 0.0 Rep Stress Incr	5-4-7 5-7-9 sets (X,Y)— [2:0-6-0,0-0-2], [4:0-5-8.0-1-12], [6:0-5-6] G (psf) SPACING- 2-0-0 20.0 Plate Grip DOL 1.25 7.0 Lumber DOL 1.25 0.0 Rep Stress Incr YES	5-4-7 5-7-9 sets (X,Y)— [2:0-6-0,0-0-2], [4:0-5-8,0-1-12], [6:0-5-8,0-1-12], [8:0 G (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.25 TC 7.0 Lumber DOL 1.25 BC 0.0 Rep Stress Incr YES WB	5-4-7 5-7-9 7-6-8 sets (X,Y)— [2:0-6-0,0-0-2], [4:0-5-8,0-1-12], [6:0-5-8,0-1-12], [8:0-6-0,0-0-2] G (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.25 TC 0.50 7.0 Lumber DOL 1.25 BC 0.58 0.0 Rep Stress Incr YES WB 0.49	5-4-7 5-7-9 7-6-8 sets (X,Y)— [2:0-6-0,0-0-2], [4:0-5-8.0-1-12], [6:0-5-8.0-1-12], [8:0-6-0,0-0-2] G (psf) SPACING- 2-0-0 CSI. DEFL. 20.0 Plate Grip DOL 1.25 TC 0.50 Vert(LL) 7.0 Lumber DOL 1.25 BC 0.58 Vert(CT) 0.0 Rep Stress Incr YES WB 0.49 Horz(CT)	5-4-7 5-7-9 7-6-8 7-6-8 sets (X,Y)— [2:0-6-0,0-0-2], [4:0-5-8,0-1-12], [6:0-5-8,0-1-12], [8:0-6-0,0-0-2] G (psf) SPACING- 2-0-0 CSI. DEFL. in 20.0 Plate Grip DOL 1.25 TC 0.50 Vert(LL) -0.14 1 7.0 Lumber DOL 1.25 BC 0.58 Vert(CT) -0.27 1 0.0 Rep Stress Incr YES WB 0.49 Horz(CT) 0.09	5-4-7 5-7-9 7-6-8 7-6-8 sets (X,Y)— [2:0-6-0,0-0-2], [4:0-5-8,0-1-12], [6:0-5-8,0-1-12], [8:0-6-0,0-0-2] G (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) 20.0 Plate Grip DOL 1.25 TC 0.50 Vert(LL) -0.14 10-12 7.0 Lumber DOL 1.25 BC 0.58 Vert(CT) -0.27 10-12 0.0 Rep Stress Incr YES WB 0.49 Horz(CT) 0.09 8	5-4-7 5-7-9 7-6-8 7-6-8 sets (X,Y)— [2:0-6-0,0-0-2], [4:0-5-8,0-1-12], [6:0-5-8,0-1-12], [8:0-6-0,0-0-2] G (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl 20.0 Plate Grip DOL 1.25 TC 0.50 Vert(LL) -0.14 10-12 >999 7.0 Lumber DOL 1.25 BC 0.58 Vert(CT) -0.27 10-12 >999 0.0 * Rep Stress Incr YES WB 0.49 Horz(CT) 0.09 8 n/a	5-4-7 5-7-9 7-6-8 7-6-8 5-7-9 sets (X,Y)— [2:0-6-0,0-0-2], [4:0-5-8,0-1-12], [6:0-5-8,0-1-12], [8:0-6-0,0-0-2] G (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d 20.0 Plate Grip DOL 1.25 TC 0.50 Vert(LL) -0.14 10-12 >999 240 7.0 Lumber DOL 1.25 BC 0.58 Vert(CT) -0.27 10-12 >999 180 0.0 * Rep Stress Incr YES WB 0.49 Horz(CT) 0.09 8 n/a n/a	5.4-7 5-7-9 7-6-8 7-6-8 5-7-9 5. sets (X,Y)— [2:0-6-0,0-0-2], [4:0-5-8,0-1-12], [6:0-5-8,0-1-12], [8:0-6-0,0-0-2] G (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d PLATES 20.0 Plate Grip DOL 1.25 TC 0.50 Vert(LL) -0.14 10-12 >999 240 MT20 7.0 Lumber DOL 1.25 BC 0.58 Vert(CT) -0.27 10-12 >999 180 0.0 Rep Stress Incr YES WB 0.49 Horz(CT) 0.09 8 n/a n/a

LUMBER-

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

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

REACTIONS. (lb/size) 8=1369/0-3-8, 2=1483/0-3-8

Max Horz 2=210(LC 11)

Max Uplift 8=-248(LC 13), 2=-288(LC 12)

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

TOP CHORD 2-3=-2127/980, 3-4=-1805/928, 4-5=-1742/1002, 5-6=-1742/1002, 6-7=-1812/934,

7-8=-2154/1003

BOT CHORD 2-15=-718/1701, 14-15=-718/1701, 12-14=-504/1438, 10-12=-508/1443, 9-10=-741/1729,

8-9=-741/1729

3-14=-481/256, 4-14=-103/429, 4-12=-217/526, 5-12=-454/346, 6-12=-214/521,

6-10=-113/441, 7-10=-466/279

NOTES- (8)

WEBS

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=248, 2=288.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



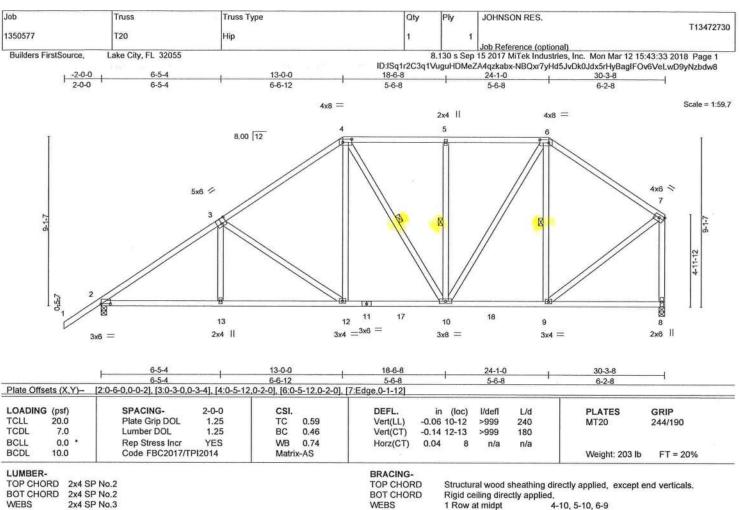
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 13,2018

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, reaction and bracing of trusses systems, see _____ASIT/P1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





(lb/size) 2=1227/0-3-8, 8=1112/0-3-8

Max Horz 2=249(LC 12)

Max Uplift 2=-258(LC 12), 8=-178(LC 13)

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

TOP CHORD

REACTIONS.

2-3=-1667/725, 3-4=-1241/647, 4-5=-916/601, 5-6=-916/601, 6-7=-856/450,

7-8=-1053/546

BOT CHORD WEBS

2-13=-710/1343, 12-13=-710/1343, 10-12=-432/951, 9-10=-266/633 3-13=0/267, 3-12=-605/335, 4-12=-147/462, 5-10=-319/222, 6-10=-270/579,

6-9=-344/234, 7-9=-314/770

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=258, 8=178.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



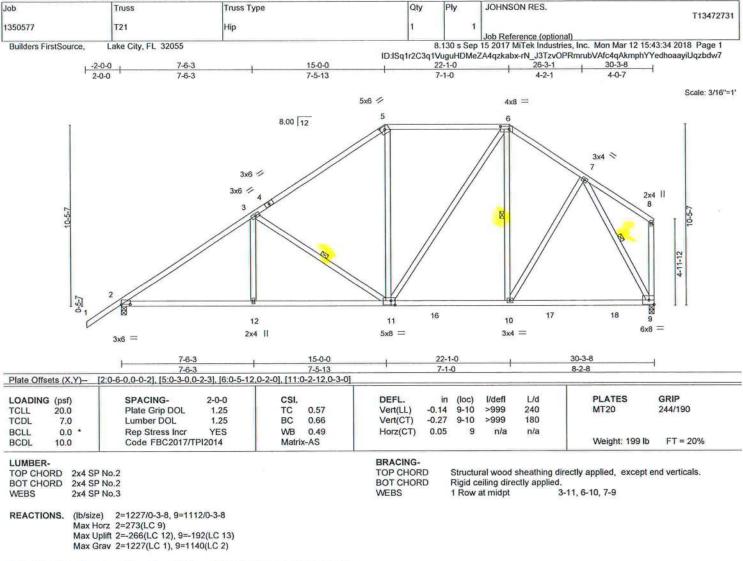
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 13,2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MILTAT3 rev. 10/03/2015 REFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters show, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer prevent buckling of individual truss web and/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





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

TOP CHORD

2-3=-1638/702, 3-5=-1126/605, 5-6=-917/598, 6-7=-876/535

BOT CHORD

2-12=-674/1349, 11-12=-674/1349, 10-11=-250/691, 9-10=-235/508

WEBS

3-12=0/321, 3-11=-708/396, 5-11=-34/310, 6-11=-170/366, 7-10=-107/386,

7-9=-1039/503

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=266, 9=192.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

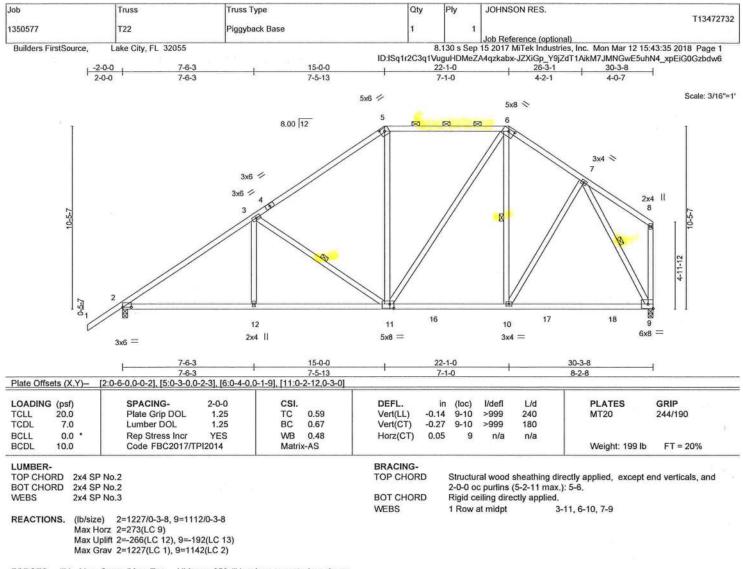


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March 13,2018

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

2-3=-1638/702, 3-5=-1127/605, 5-6=-917/598, 6-7=-878/535 2-12=-674/1350, 11-12=-674/1350, 10-11=-250/693, 9-10=-235/509 BOT CHORD 3-12=0/321, 3-11=-709/396, 5-11=-35/311, 6-11=-169/365, 7-10=-108/388, WEBS

7-9=-1039/503

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
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- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



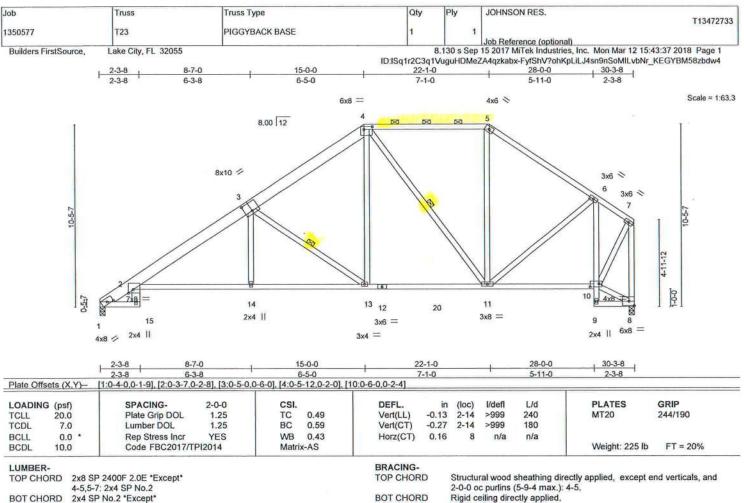
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 13,2018

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WEBS

1 Row at midpt

3-13, 4-11

BOT CHORD 2x4 SP No.2 *Except*

2-15: 2x6 SP No.2, 6-9: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (lb/size) 1=1122/0-3-8, 8=1111/0-3-8

Max Horz 1=252(LC 9)

Max Uplift 1=-221(LC 12), 8=-192(LC 13)

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

2-19=-638/125, 2-3=-1842/832, 3-4=-1260/682, 4-5=-804/539, 5-6=-984/549, TOP CHORD

6-7=-524/254, 7-8=-1085/511 **BOT CHORD**

2-14=-824/1642, 13-14=-823/1644, 11-13=-384/946, 10-11=-216/446, 6-10=-710/414

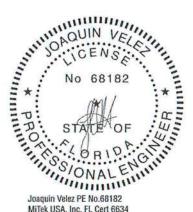
3-14=0/291, 3-13=-943/540, 4-13=-265/714, 4-11=-400/163, 5-11=-35/271, WEBS

6-11=-123/403, 7-10=-428/892

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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
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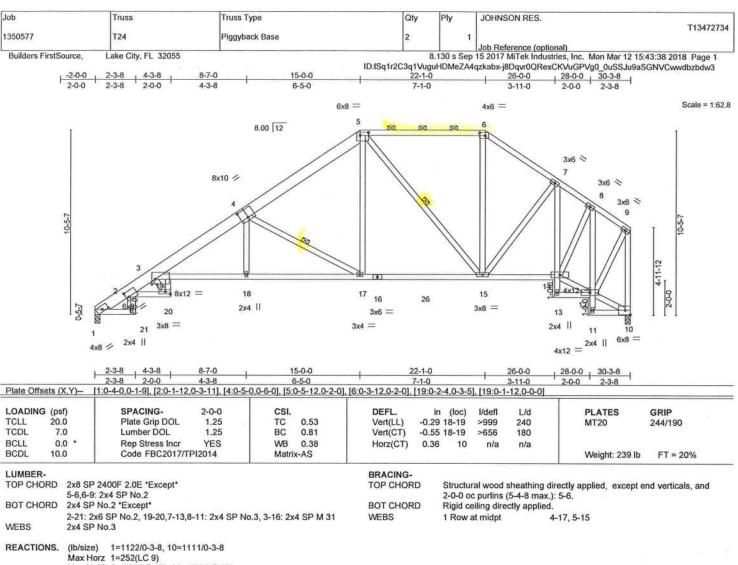


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Max Uplift 1=-221(LC 12), 10=-192(LC 13)

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

TOP CHORD 2-25=-636/125, 2-3=-1443/647, 3-4=-2245/1071, 4-5=-1399/736, 5-6=-871/572,

6-7=-1047/610, 7-8=-889/488, 8-9=-520/264, 9-10=-1078/523

BOT CHORD 2-20=-614/1068, 19-20=-502/903, 3-19=-934/1880, 18-19=-1065/2119, 17-18=-1066/2125,

15-17=-430/1054, 14-15=-317/721, 7-14=-360/180, 8-12=-920/448

4-18=-59/356, 4-17=-1292/730, 5-17=-290/793, 5-15=-420/172, 6-15=-100/330,

12-14=-184/420, 8-14=-285/684, 9-12=-386/847, 3-20=-1138/664

NOTES-

WEBS

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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
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Truss Type Qty JOHNSON RES Job Truss T13472735 1350577 T25 PIGGYBACK BASE 1 | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:40 2018 Page 1 Builders FirstSource, Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-fXLaJWZgzFBwZp2fXvjU3R_oz6Zb2FfgyWP1hTzbdw1
28-0-0
20-7-12
26-0-0
30-3-8
5-7-12
5-4-4
07-0
2-3-8 2-3-8 | 4-3-8 | 6-5-0 1-5-0 Scale = 1:74.4 6x8 = 2x4 || 5x12 = 8.00 12 5 3x6 > 8 3x6 8x10 / 17 16 8x12 = 18 15 26 27 20 2x4 || 3x8 = 13 3x6 = 21 3x8 = 3x4 = 11 10 3x4 = 6x8 = 4x8 // 2x4 || 2x4 || 3x4 II 3x4 11 3x4 II 2-3-8 | 4-3-8 | 8-7-0 15-0-0 6-5-0 26-7-0 043-12 1-5-0 Plate Offsets (X,Y)- [1:0-4-0,0-1-9], [2:0-1-12,0-3-11], [4:0-5-0,0-6-0], [5:0-5-12,0-2-0], [7:0-9-12,0-2-0], [14:0-9-8,0-2-8], [19:0-1-12,0-0-0], [19:0-2-4,0-3-5] GRIP DEFL. in (loc) L/d PLATES LOADING (psf) SPACING-2-0-0 CSI I/defl 0.31 18-19 240 MT20 244/190 20.0 Plate Grip DOL 1.25 TC 0.53 Vert(LL) >999 TCLL BC -0.55 18-19 >654 180 Lumber DOL 1.25 0.81 Vert(CT) TCDL 7.0 0.77 Horz(CT) 0.36 n/a Ren Stress Incr YES WB 10 n/a BCIL 0.0 Weight: 275 lb FT = 20% Code FBC2017/TPI2014 Matrix-AS BCDL 10.0 LUMBER-BRACING-TOP CHORD 2x8 SP 2400F 2.0E *Except* TOP CHORD Structural wood sheathing directly applied, except end verticals, and 5-7,7-9: 2x4 SP No.2 2-0-0 oc purlins (5-10-8 max.): 5-7. **BOT CHORD** BOT CHORD 2x4 SP No.2 *Except* Rigid ceiling directly applied. Except: 1 Row at midpt 7-14. 8-12 2-21: 2x6 SP No.2, 19-20,7-13,8-11: 2x4 SP No.3, 3-16: 2x4 SP M 31 4-17, 5-15, 6-15, 9-10 WEBS 1 Row at midpt WEBS 2x4 SP No.3

REACTIONS. (lb/size) 1=1122/0-3-8, 10=1111/0-3-8

Max Horz 1=298(LC 12)

Max Uplift 1=-207(LC 12), 10=-203(LC 12)

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

TOP CHORD 2-25=-634/18, 2-3=-1445/580, 3-4=-2253/1088, 4-5=-1392/720, 5-6=-911/582,

6-7=-911/582, 7-8=-538/355, 8-9=-342/198, 9-10=-1077/564

BOT CHORD 2-20=-687/1081, 19-20=-563/913, 3-19=-1091/1865, 18-19=-1237/2104,

17-18=-1238/2110, 15-17=-550/1037, 14-15=-228/471, 7-14=-562/316, 8-12=-914/468

4-18=-69/369, 4-17=-1329/791, 5-17=-321/754, 5-15=-303/142, 6-15=-330/257,

7-15=-424/784, 8-14=-334/755, 3-20=-1152/743, 9-12=-433/878

NOTES- (9)

WEBS

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=207, 10=203.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



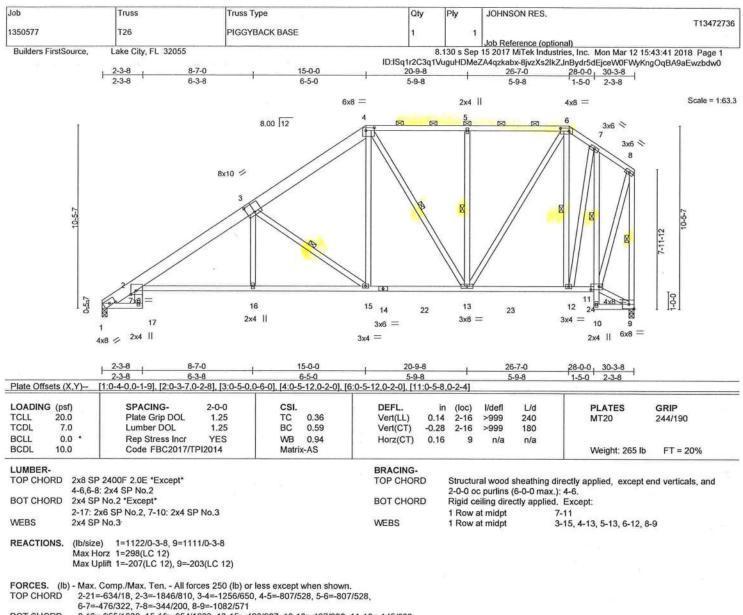
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 13,2018

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 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.





BOT CHORD 2-16=-955/1630, 15-16=-954/1633, 13-15=-492/927, 12-13=-187/392, 11-12=-145/290,

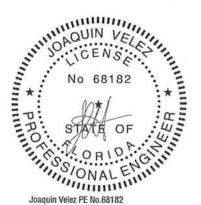
7-11=-848/401 3-16=0/298, 3-15=-958/569, 4-15=-284/682, 4-13=-301/145, 5-13=-346/269, WEBS

6-13=-426/789, 6-12=-600/331, 7-12=-276/702, 8-11=-441/887

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads,
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=207, 9=203,
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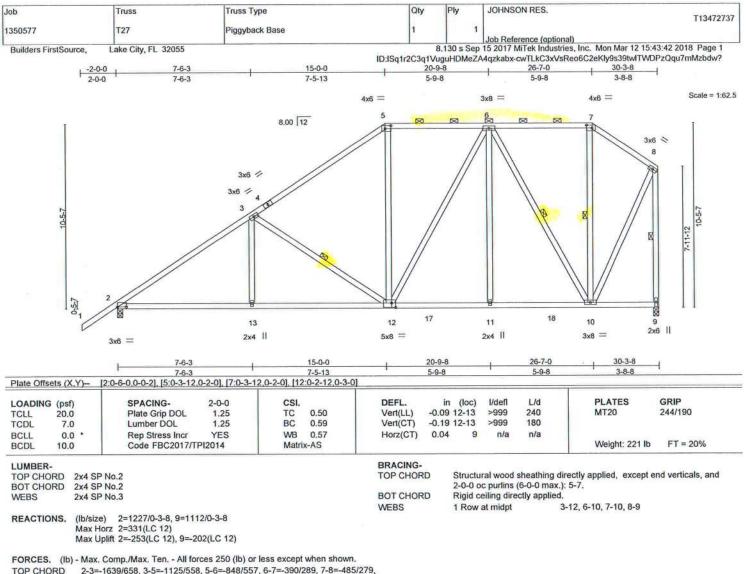
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd, Tampa FL 33610

March 13,2018

MARNING - 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 shall induce the 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 is how the author that the 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

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TOP CHORD

8-9=-1082/570 2-13=-779/1342, 12-13=-779/1342, 11-12=-372/748, 10-11=-372/748

BOT CHORD 3-13=0/320, 3-12=-713/403, 5-12=-46/323, 6-12=-152/324, 6-11=0/321, 6-10=-785/404, WEBS

8-10=-401/852

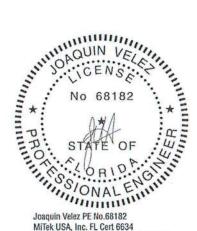
NOTES-(9)

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.

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

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=253, 9=202,
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

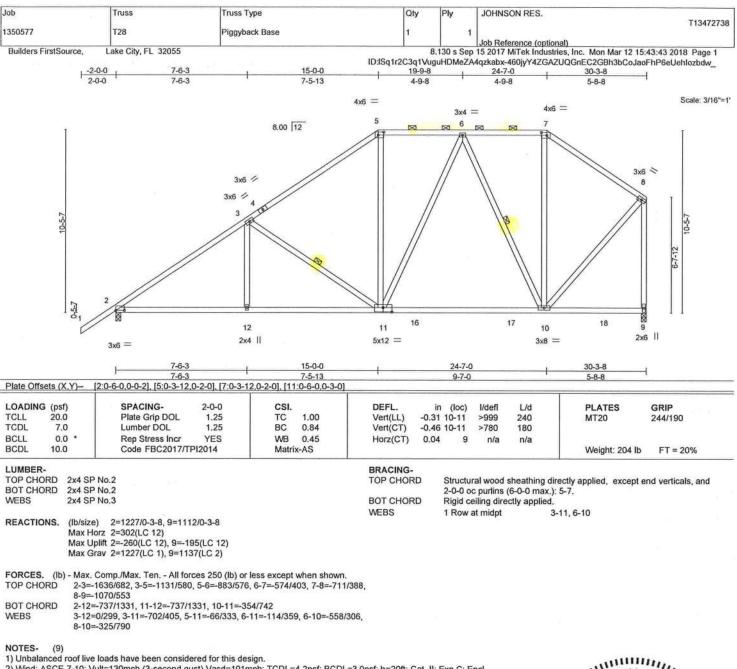


Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 13,2018

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- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.

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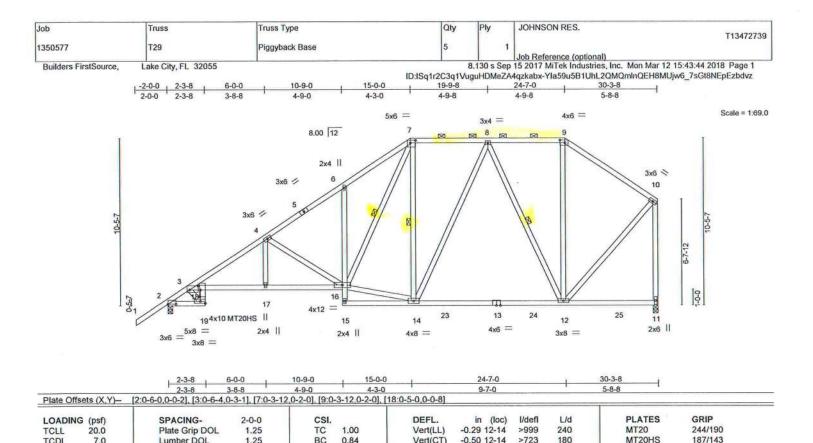
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- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=260, 9=195.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
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Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 13,2018





Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WEBS

>999

>723

n/a

-0.50 12-14

11

1 Row at midpt

0.21

240

180

n/a

2-0-0 oc purlins (6-0-0 max.): 7-9.

Rigid ceiling directly applied.

MT20HS

Structural wood sheathing directly applied, except end verticals, and

7-16, 7-14, 8-12

Weight: 231 lb

187/143

FT = 20%

LUMBER-

REACTIONS.

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2

20.0

10.0

7.0

0.0

2x4 SP No.2 *Except* BOT CHORD

3-16: 2x4 SP M 31, 6-15: 2x4 SP No.3

Plate Grip DOL

Rep Stress Incr

Code FBC2017/TPI2014

Lumber DOL

2x4 SP No.3

WEBS

2=1227/0-3-8, 11=1112/0-3-8 (lb/size)

Max Horz 2=302(LC 12)

Max Uplift 2=-260(LC 12), 11=-195(LC 12) Max Grav 2=1227(LC 1), 11=1137(LC 2)

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

TOP CHORD 3-21=-1535/615, 3-4=-2201/1026, 4-6=-1532/758, 6-7=-1503/914, 7-8=-876/571,

1.25

1.25

YES

1.00

0.84

0.57

WB

Matrix-AS

8-9=-574/402, 9-10=-712/387, 10-11=-1071/552

BOT CHORD 2-19=-699/1363, 18-19=-602/1234, 3-18=-864/1579, 17-18=-1059/1915,

16-17=-1059/1915, 6-16=-292/254, 12-14=-357/744

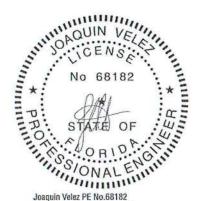
4-17=-167/481, 4-16=-899/493, 14-16=-323/820, 7-16=-585/990, 7-14=-259/209, **WEBS**

8-14=-97/339, 8-12=-561/313, 10-12=-324/790, 3-19=-1513/781

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
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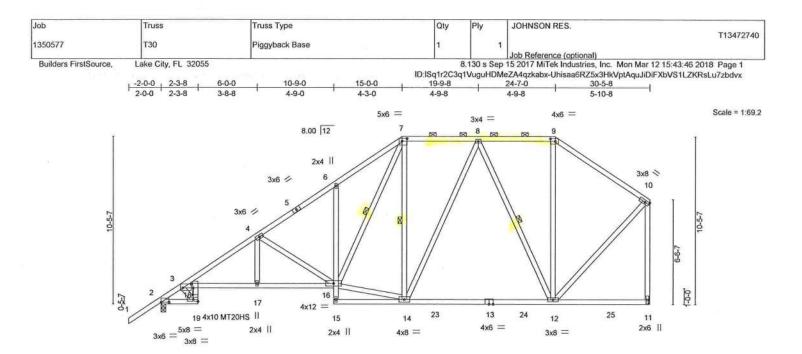


Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd, Tampa FL 33610 Date:

March 13,2018

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





			5-0-0	10-9-0	15-0-0	- 31	24-7-0		3	30-5-8	
		2-3-8	8-8-8	4-9-0	4-3-0		9-7-0		'	5-10-8	
Plate Offse	ts (X,Y)-	[2:0-6-0,0-0-2], [3:0-6-4,0)-3-1], [7:0-3-	12,0-2-0], [9:0-	-3-12,0-2-0], [18	0-5-0,0-0-8]					
OADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
CLL	20.0	Plate Grip DOL	1.25	TC	0.99	Vert(LL)	-0.29 12-14	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.50 12-14	>724	180	MT20HS	187/143
3CLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.21 11	n/a	n/a		
BCDL	10.0	Code FBC2017/1	PI2014	Matri	x-AS					Weight: 231 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

3-16: 2x4 SP M 31, 6-15: 2x4 SP No.3

WEBS 2x4 SP No.3

(lb/size) 2=1233/0-3-8, 11=1118/Mechanical

Max Horz 2=300(LC 12)

Max Uplift 2=-261(LC 12), 11=-195(LC 12) Max Grav 2=1233(LC 1), 11=1142(LC 2)

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

TOP CHORD 3-21=-1544/621, 3-4=-2216/1033, 4-6=-1545/765, 6-7=-1515/921, 7-8=-886/577,

8-9=-590/413, 9-10=-733/397, 10-11=-1075/554

BOT CHORD 2-19=-699/1366, 18-19=-602/1237, 3-18=-865/1590, 17-18=-1060/1927,

16-17=-1060/1927, 6-16=-291/254, 12-14=-359/756

WEBS 4-17=-167/482, 4-16=-900/493, 14-16=-324/829, 7-16=-585/991, 7-14=-255/205, 8-14=-96/334, 8-12=-555/307, 10-12=-322/789, 3-19=-1517/781

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding. 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) 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 (jt=lb) 2=261, 11=195.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
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Structural wood sheathing directly applied, except end verticals, and

7-16, 7-14, 8-12

2-0-0 oc purlins (6-0-0 max.): 7-9.

Rigid ceiling directly applied.

1 Row at midpt

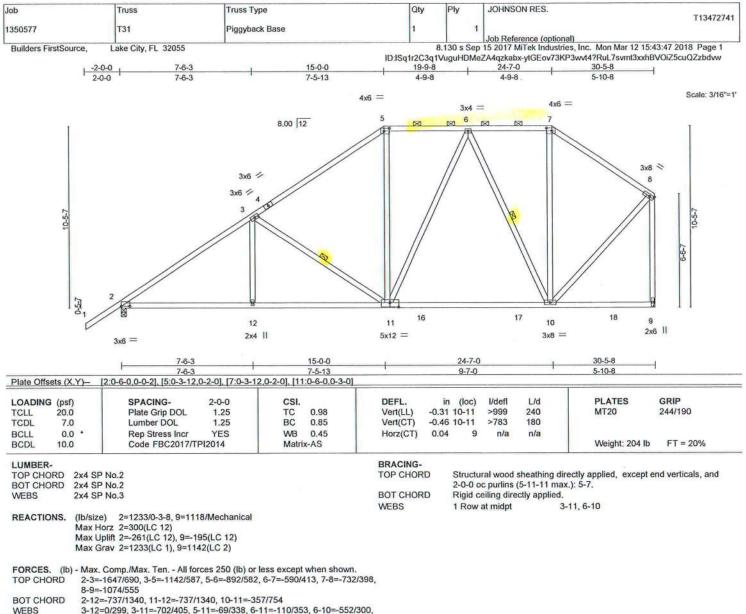
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 13,2018

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3-12=0/299, 3-11=-702/405, 5-11=-69/338, 6-11=-110/353, 6-10=-552/300,

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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
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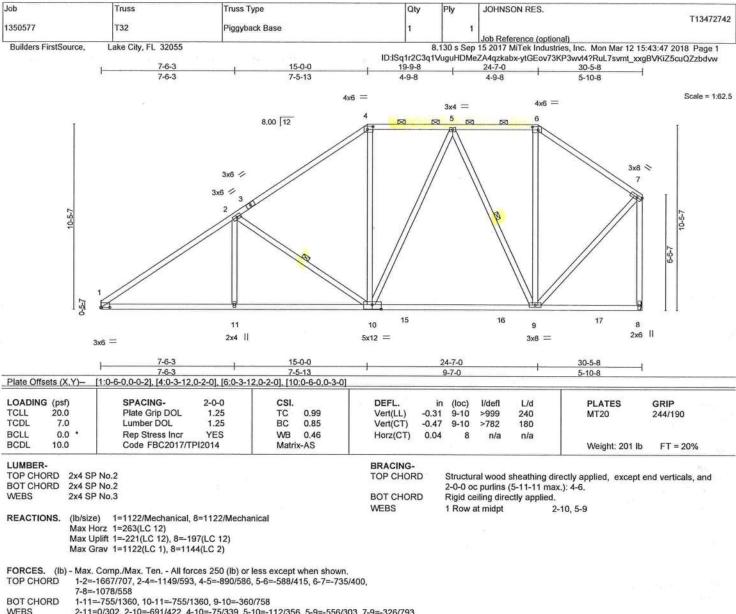


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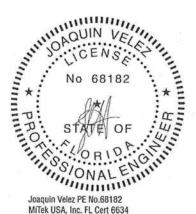


WEBS 2-11=0/302, 2-10=-691/422, 4-10=-75/339, 5-10=-112/356, 5-9=-556/303, 7-9=-326/793

(10)

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=221, 8=197,
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



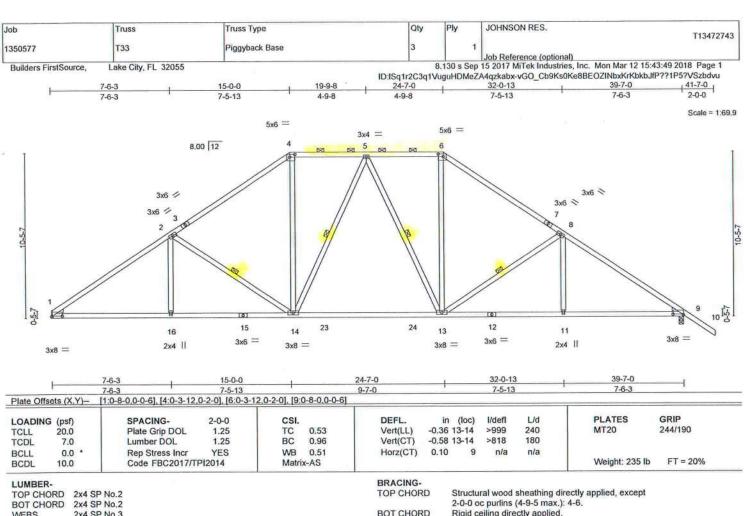
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 13,2018

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

ANS/TPI1 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

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

Rigid ceiling directly applied. 2-14, 5-14, 5-13, 8-13

WEBS 1 Row at midpt

REACTIONS. (lb/size) 1=1462/Mechanical, 9=1575/0-3-8

Max Horz 1=-278(LC 8)

Max Uplift 1=-286(LC 12), 9=-326(LC 13)

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

1-2=-2262/1032, 2-4=-1759/926, 4-5=-1386/865, 5-6=-1387/863, 6-8=-1756/923, TOP CHORD

8-9=-2245/1017 **BOT CHORD**

1-16=-681/1843, 14-16=-681/1843, 13-14=-377/1419, 11-13=-665/1782, 9-11=-665/1782

2-16=0/292, 2-14=-675/415, 4-14=-256/611, 5-14=-270/197, 5-13=-273/198,

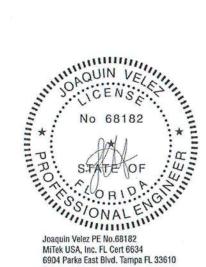
6-13=-253/607, 8-13=-685/397, 8-11=0/289

(10)NOTES-

WEBS

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl. GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=286, 9=326.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

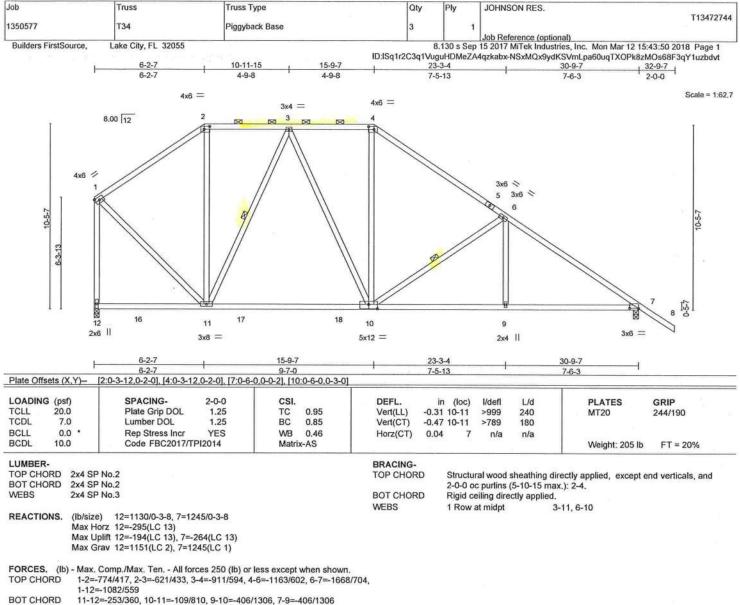


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March 13,2018

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WEBS

3-11=-541/288, 3-10=-107/342, 4-10=-77/346, 6-10=-702/405, 6-9=0/299,

1-11=-319/791

NOTES- (9)

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.

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

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=194, 7=264.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

March 13,2018

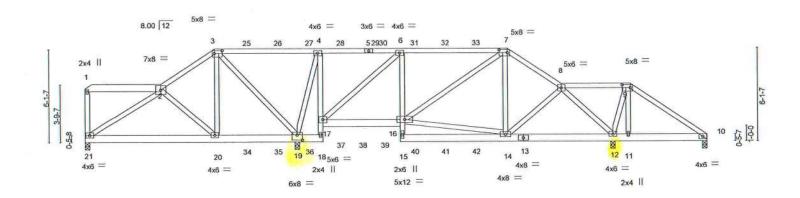
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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



Qty JOHNSON RES. Ply Job Truss Truss Type T13472745 1350577 T35 Roof Special Girder Job Reference (optional)
8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:54 2018 Page 1 Lake City, FL 32055 Builders FirstSource, ID:ISq1r2C3q1VuguHDMeZA4qzkabx-FDBtGJDSgYyxEy7LLszmeNZDWToKi9kAhomAfzbdvp 27-5-0 30-11-0 35-5-0 40-5-0 8-5-0 15-4-14 20-5-0 4-11-0 3-6-0 6-11-14 5-0-2 7-0-0 3-6-0 4-6-0 5-0-0

Scale = 1:72.5



	0-5-0	8-5-0	13-9-4	15-4-14	20-5-0	1 2	27-5-0	30-11	-0	34-3-4	35-5-0	40-5-0
	0-5-0	8-0-0	5-4-4	1-7-10	5-0-2		7-0-0	3-6-0) '	3-4-4	1-1-12	5-0-0
Plate Offse	ets (X,Y)-	[3:0-6-4,0-2-4], [7:0-6-4,0	-2-4], [9:0-6-4,0	0-2-4], [19:0-	-4-0,0-4-0]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	- 1	PLATES	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	0.05 14-15	>999	240		MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.06 14-15	>999	180			
BCLL BCDL	0.0 *	Rep Stress Incr Code FBC2017/TI	NO PI2014	WB Matri	0.32 x-MS	Horz(CT)	0.01 12	n/a	n/a		Weight:	575 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

1-2: 2x6 SP No.2 **BOT CHORD** 2x6 SP No.2 *Except*

4-18,6-15: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. All bearings 0-3-8.

(lb) - Max Horz 21=-144(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) except 10=-266(LC 28), 21=-229(LC 8), 19=-1893(LC 5),

12=-1337(LC 9)

Max Grav All reactions 250 lb or less at joint(s) except 10=277(LC 7), 21=485(LC 19), 19=2964(LC 36). 12=2049(LC 34)

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

2-3=-391/304, 3-4=-393/672, 4-6=-201/330, 6-7=-864/641, 7-8=-1094/786, TOP CHORD

8-9=-471/744, 9-10=-375/622

20-21=-229/410, 19-20=-202/312, 18-19=-280/218, 17-18=-288/187, 4-17=-589/947, BOT CHORD

16-17=-539/868, 15-16=-133/258, 6-16=-356/615, 12-14=-237/426, 11-12=-458/329,

10-11=-467/333

2-21=-503/327, 3-20=-440/770, 3-19=-1314/864, 4-19=-1388/902, 6-17=-1486/944, WEBS

14-16=-507/765, 7-14=-142/354, 8-14=-456/681, 8-12=-1614/1091, 9-12=-894/639

NOTES-

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

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

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

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

4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60

Provide adequate drainage to prevent water ponding.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 266 lb uplift at joint 10, 229 lb uplift at joint 21, 1893 lb uplift at joint 19 and 1337 lb uplift at joint 12.



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

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

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

March 13,2018

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



Job	Truss	Truss Type	Qty	Ply	JOHNSON RES.	0.1707.15
1350577	T35	Roof Special Girder	1	2	Job Reference (optional)	3472745

Builders FirstSource

Lake City, FL 32055

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:54 2018 Page 2 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-FDBtGJDSgYyxEy7LLszmeNZDWToKi9kAhomAfzbdvp

NOTES- (10)

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 176 lb down and 252 lb up at 8-5-0, 81 lb down and 65 lb up at 10-6-1, 81 lb down and 65 lb up at 12-6-1, 95 lb down and 85 lb up at 14-6-1, 68 lb down and 46 lb up at 16-6-1, 68 lb down and 46 lb up at 19-3-15, 95 lb down and 85 lb up at 21-3-15, 81 lb down and 65 lb up at 23-3-15, 81 lb down and 65 lb up at 25-3-15, and 176 lb down and 252 lb up at 27-5-0, and 245 lb down and 316 lb up at 35-5-0 on top chord, and 455 lb down and 427 lb up at 8-5-0, 152 lb down and 105 lb up at 10-6-1, 152 lb down and 105 lb up at 12-6-1, 106 lb down and 82 lb up at 14-6-1, 133 lb down and 109 lb up at 16-6-1, 152 lb down and 109 lb up at 19-3-15, 106 lb down and 82 lb up at 14-6-1, 152 lb down and 105 lb up at 23-3-15, and 455 lb down and 427 lb up at 27-3-15, and 142 lb down and 68 lb up at 35-3-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of

the building designer per ANSI TPI 1 as referenced by the building code.

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, 3-7=-54, 7-8=-54, 8-9=-54, 9-10=-54, 18-21=-20, 16-17=-20, 15-22=-20

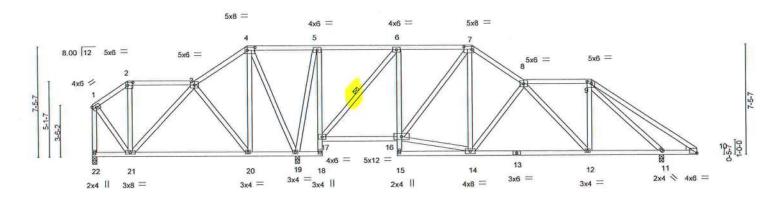
Concentrated Loads (lb)

Vert: 3=-95(F) 7=-95(F) 9=-125(F) 20=-365(F) 14=-365(F) 11=-65(F) 25=-28(F) 26=-28(F) 27=-48(F) 28=-1(F) 29=-1(F) 30=-1(F) 31=-48(F) 32=-28(F) 33=-28(F) 34=-131(F) 35=-131(F) 36=-18(F) 37=-65(F) 38=-65(F) 39=-65(F) 40=-18(F) 41=-131(F) 42=-131(F)



Qty Ply JOHNSON RES Job Truss Truss Type T13472746 T36 Roof Special 1 1350577 Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:56 2018 Page 1 Builders FirstSource, Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-BcJeg_EjCACeUGGkTH?EjoeaqZ66oR31e?HtFYzbdvn 33-5-0 40-5-0 25-5-0 28-11-0 20-5-0 2-5-0 6-11-0 10-5-0 15-4-14 3-6-0 4-6-0 7-0-0 5-0-2 5-0-0 4-6-0 3-6-0 4-11-14





		5-0 10-5-0			4-14	20-5-0	-	5-0	-		-5-0		40-5-0
	2-	5-0 8-0-0		3-4-4 1	7-10	5-0-2	5-0	0-0		-8-	0-0	4-9-8	2-2-8
Plate Offse	ets (X,Y)-	[2:0-4-4,0-2-4], [4:0-6-4	4,0-2-4], [7:0-6	-4.0-2-4], [9:	0-3-8,0-1	1-12], [10:0-0-0	0.0-0-2]						
LOADING	(psf)	SPACING-	2-0-0	CS	SI.		DEFL.	in ((loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	1 '	Vert(LL)	-0.09 12	2-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BO	0.51		Vert(CT)	-0.20 12	2-14	>999	180		
BCLL	0.0 *	Rep Stress Incr Code FBC2017		Ma	B 1.00 atrix-AS) 1	Horz(CT)	0.02	11	n/a	n/a	Weight: 287 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

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

5-18,6-15: 2x4 SP No.3

2x4 SP No.3 WEBS

WEDGE

Right: 2x4 SP No.3

REACTIONS. (lb/size) 22=321/0-3-8, 19=1685/0-3-8, 11=974/0-3-8

Max Horz 22=-175(LC 8)

Max Uplift 22=-129(LC 12), 19=-348(LC 9), 11=-266(LC 13) Max Grav 22=355(LC 23), 19=1685(LC 1), 11=979(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown 4-5=-52/341, 6-7=-510/454, 7-8=-778/546, 8-9=-650/450, 1-22=-373/219 TOP CHORD

5-17=-203/667, 16-17=-124/464, 6-16=-66/429, 12-14=-376/866, 11-12=-227/639 BOT CHORD 3-20=-281/229, 4-20=-126/381, 4-19=-643/196, 5-19=-980/439, 6-17=-907/391, WEBS

14-16=-156/608, 7-14=-199/406, 8-14=-438/338, 8-12=-323/218, 9-12=-101/405,

9-11=-1047/463, 1-21=-136/278

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 22, 348 lb uplift at joint 19 and 266 lb uplift at joint 11.

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

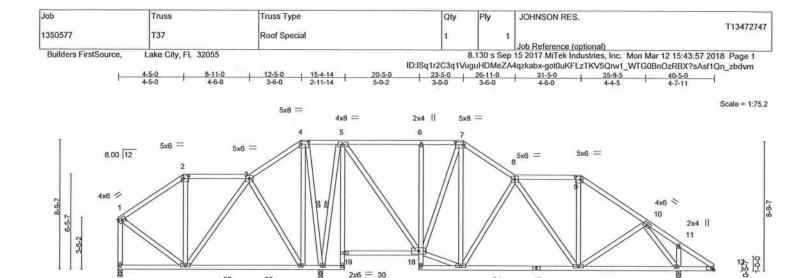
1 Row at midpt

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

March 13,2018

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	-	4-5-0 4-5-0	12-5-0 8-0-0	13-9-4 5-4-14 1-4-4 1-7-10	20-5-0 5-0-2	23-5-0 3-0-0	31-5-0 8-0-0		38-2-8 6-9-8	40-5-0 2-2-8
Plate Offse	ets (X,Y)-	[2:0-4-4,0-2-4], [4:0-6-4	,0-2-4], [7:0-6-4	1,0-2-4], [9:0-4-4,0-2	2-4]					
LOADING TCLL TCDL	20.0 7.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI. TC 0.22 BC 0.52	Ver	t(CT) -0.21	14-16 >999 14-16 >999	L/d 240 180	PLATES MT20	GRIP 244/190
BCLL	10.0	Rep Stress Incr Code FBC2017/	YES TPI2014	WB 0.52 Matrix-AS	P. Ho	rz(CT) 0.01	13 n/a	n/a	Weight: 316 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

5x12 = 17

2x4 ||

16

3x8 =

15

Rigid ceiling directly applied.

1 Row at midpt

3x6 =

14

3x8 =

Structural wood sheathing directly applied, except end verticals.

4-21 5-21

2x6

3x4 ||

21 20

3x4 =

3x4 =

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* BOT CHORD

24

2x4 ||

5-20,6-17: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. 24=335/0-3-8, 21=1659/0-3-8, 13=986/0-3-8 (lb/size)

Max Horz 24=-209(LC 8)

Max Uplift 24=-138(LC 12), 21=-305(LC 9), 13=-286(LC 13) Max Grav 24=373(LC 23), 21=1659(LC 1), 13=991(LC 24)

28

23

3x8 =

29

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

1-2=-276/213, 2-3=-272/237, 3-4=-119/313, 4-5=-67/337, 5-6=-504/457, 6-7=-502/456, TOP CHORD

7-8=-653/524, 8-9=-658/473, 9-10=-803/494, 1-24=-360/256

BOT CHORD 14-16=-279/695, 13-14=-196/452

WEBS 3-23=-75/292, 3-22=-350/283, 4-22=-136/464, 4-21=-730/129, 5-21=-910/359,

5-18=-327/822, 16-18=-67/538, 7-18=-295/88, 7-16=-252/437, 8-16=-472/372,

NOTES- (8)

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 24, 305 lb uplift at joint 21 and 286 lb uplift at joint 13.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



13

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

March 13,2018

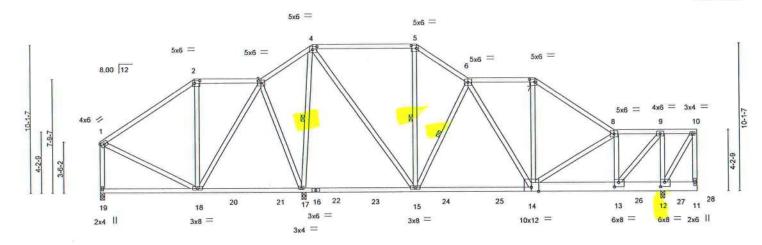
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters and reference PAGE MIL-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only 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

ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



JOHNSON RES. Qty Ply Job Truss Type Truss T13472748 T38 Roof Special Girder 1350577 | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:59 2018 Page 1 Lake City, FL 32055 Builders FirstSource. ID:ISq1r2C3q1VuguHDMeZA4qzkabx-cB_mJ0GbV5aDLj?J8PZxLRG0Pm5z?tkTKzWXrtzbdvk 10-11-0 14-5-0 21-5-0 24-11-0 29-5-0 34-9-5 40-5-0 6-5-0 4-6-0 3-6-0 7-0-0 3-6-0 4-6-0 5-4-5 5-7-11

Scale = 1:75.6



		6-5-0	13-9-0	13-9-4	21-5-0		29-5-0		1 3	4-5-5	30-2-0	40-5-0
		6-5-0	7-4-0	0-0-4	7-7-12		8-0-0			5-4-5	3-5-3	2-2-8
Plate Offse	ets (X,Y)-	[2:0-4-4,0-2-4], [4:0-3-8,0	-2-8], [5:0-4-4,0-	2-4], [7:0-4-4,	0-2-4], [12:0-3-8,0	0-3-12], [13:0	0-3-8,0-3-12]			_		
LOADING TCLL TCDL	(psf) 20.0 7.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25		.70	1	in (loc) -0.10 14-15 -0.18 14-15	I/defl >999 >999	L/d 240 180	PLAT MT20	Control of the Contro	GRIP 244/190
BCLL BCDL	0.0 *	Rep Stress Incr Code FBC2017/T	NO PI2014	WB 0 Matrix-N	*555	Horz(CT)	0.01 12	n/a	n/a	Weig	ht: 311 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SP No.2 TOP CHORD

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

11-14: 2x8 SP 2400F 2.0E

WEBS 2x4 SP No.3

19=369/0-3-8 17=1684/0-3-8 12=4216/0-3-8 (reg. 0-5-0) REACTIONS. (lb/size)

Max Horz 19=166(LC 5)

Max Uplift 19=-103(LC 27), 17=-325(LC 8), 12=-834(LC 9) Max Grav 19=410(LC 19), 17=1762(LC 2), 12=4223(LC 20)

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

1-2=-302/99, 3-4=-19/280, 4-5=-433/200, 5-6=-559/198, 6-7=-763/248, 7-8=-985/237, TOP CHORD 1-19=-354/117, 8-9=-980/207

BOT CHORD 14-15=-108/708, 13-14=-215/1002

WEBS

3-18=-116/392, 3-17=-389/219, 4-17=-1171/226, 4-15=-213/925, 6-15=-631/257, 7-14=-7/283, 8-14=-303/137, 8-13=-640/258, 9-13=-375/1802, 9-12=-1552/356,

10-11=-87/300, 10-12=-355/87

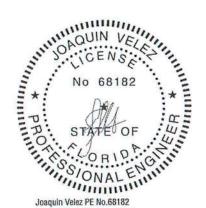
(10)

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) WARNING: Required bearing size at joint(s) 12 greater than input bearing size.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 19, 325 lb uplift at joint 17 and 834 lb uplift at joint 12.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1122 lb down and 215 lb up at 35-5-12, and 1122 lb down and 215 lb up at 37-5-12, and 1127 lb down and 215 lb up at 39-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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



Structural wood sheathing directly applied or 5-2-11 oc purlins,

4-17, 5-15, 6-15

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

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR

WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER

OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT

except end verticals.

1 Row at midpt

OR THE BUILDING DESIGNER.

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

March 13,2018

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Job	Truss	Truss Type	Qty	Ply	JOHNSON RES.	T10.1707.10
1350577	T38	Roof Special Girder	1	1		T13472748
		82/4			Job Reference (optional)	

Builders FirstSource,

Lake City, FL 32055

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:43:59 2018 Page 2 $ID: ISq1r2C3q1VuguHDMeZA4qzkabx-cB_mJ0GbV5aDLj?J8PZxLRG0Pm5z?lkTKzWXrtzbdvk$

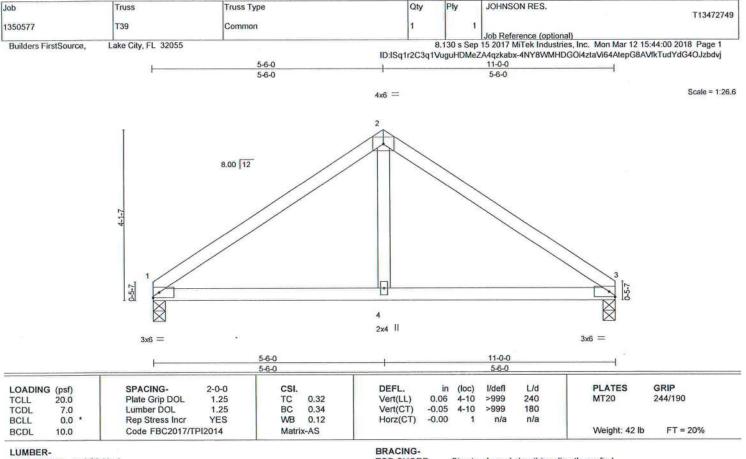
LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-54, 2-3=-54, 3-4=-54, 4-5=-54, 5-6=-54, 6-7=-54, 7-8=-54, 11-19=-20, 8-10=-54

Concentrated Loads (lb) Vert: 26=-1098(B) 27=-1098(B) 28=-1104(B)





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

TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

(lb/size) 1=407/0-3-8, 3=407/0-3-8 REACTIONS.

Max Horz 1=117(LC 11)

Max Uplift 1=-151(LC 12), 3=-151(LC 13)

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

1-2=-491/608, 2-3=-491/608 TOP CHORD

BOT CHORD 1-4=-413/349, 3-4=-413/349 WEBS 2-4=-403/245

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=20ft; 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

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 1 and 151 lb uplift at joint 3.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

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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.



Job Truss Truss Type Qty JOHNSON RES. Plv T13472750 GABLE 1350577 T39G Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:44:01 2018 Page 1 Lake City, FL 32055 Builders FirstSource. ID:ISq1r2C3q1VuguHDMeZA4qzkabx-Ya6Xkilr1iqxa19hGqbPQsLQ7atMTwhmnH?ewlzbdyi 5-6-0 11-0-0 13-0-0 2-0-0 5-6-0 5-6-0 2-0-0 4x6 = Scale = 1:25.8 8.00 12 2x4 || 2x4 || 3x4 / 5 3x4 > 0-5-7 2-5-7 2x4 || 8 2x4 11 2x4 || 4x8 = 4x8 = 5-6-0 11-0-0 5-6-0 5-6-0 Plate Offsets (X,Y)-[2:0-4-10,0-2-1], [6:0-4-10,0-2-1] LOADING (psf) SPACING-CSI. DEFL. 2-0-0 in (loc) I/defl L/d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.37 Vert(LL) 0.05 8-19 >999 240 244/190 MT20 TCDL 7.0 1.25 BC 0.24 0.04 Lumber DOL Vert(CT) 8-19 >999 180 BCLL 0.0 Rep Stress Incr YES 0.08 WB Horz(CT) 0.01 2 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-AS Weight: 60 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied. WEBS 2x4 SP No.3

OTHERS 2x4 SP No.3

REACTIONS.

(lb/size) 2=512/0-3-8, 6=512/0-3-8

Max Horz 2=-148(LC 10)

Max Uplift 2=-228(LC 12), 6=-228(LC 13)

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

TOP CHORD

2-4=-404/522, 4-6=-404/520 2-8=-520/526, 6-8=-520/526

BOT CHORD WEBS

4-8=-323/214

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=20ft; 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
- 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) Gable studs spaced at 2-0-0 oc.

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 228 lb uplift at joint 2 and 228 lb uplift at joint 6.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



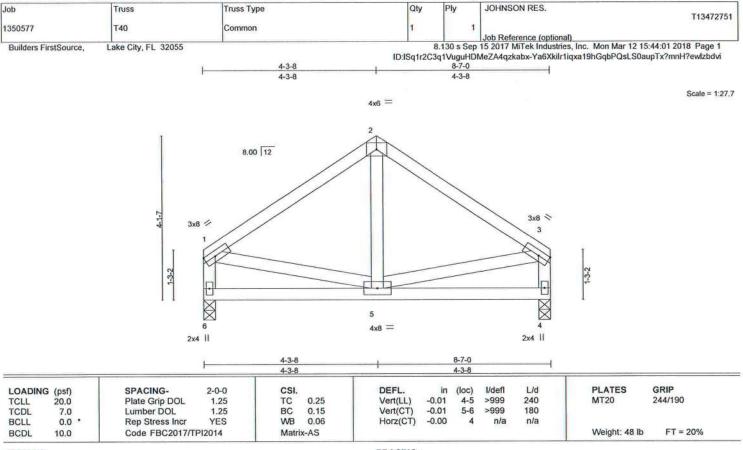
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 13,2018

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

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





LUMBER-

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

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied, except end verticals. Rigid ceiling directly applied.

REACTIONS.

(lb/size) 6=307/0-3-8, 4=307/0-3-8 Max Horz 6=-70(LC 8) Max Uplift 6=-92(LC 9), 4=-92(LC 8)

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

1-2=-291/369, 2-3=-291/369, 1-6=-267/315, 3-4=-267/315 TOP CHORD

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 6 and 92 lb uplift at
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

March 13,2018

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



Job Truss Truss Type Qty Ply JOHNSON RES. T13472752 1350577 T41 Monopitch Girder | Z | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:44:02 2018 Page 1 Lake City, FL 32055 Builders FirstSource. ID:ISq1r2C3q1VuguHDMeZA4qzkabx-0mgvx2JTo0yoCBkupX6ez3ueN_D6CFOv0xlBSCzbdvh 4-1-11 4-1-11 2x4 || 3 Scale = 1:34.3 8.00 12 3x8 / 7-5-0 5 4x6 = 3x8 II 5x6 = 4-1-11 8-3-8 Plate Offsets (X,Y)- [1:0-2-12,0-1-3], [5:0-5-8,0-1-8] LOADING (psf) SPACING-2-0-0 CSI DEFI in (loc) I/defl 1/d**PLATES** GRIP Plate Grip DOL TCLL 20.0 1.25 TC 0.14 Vert(LL) -0.02 5 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.21 Vert(CT) -0.044-5 >999 180 BCII 0.0 Rep Stress Incr NO WB 0.63 Horz(CT) 0.01 4 n/a n/a Code FBC2017/TPI2014 BCDL 10.0 Matrix-MS Weight: 116 lb FT = 20%LUMBER-BRACING-Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD TOP CHORD

BOT CHORD

except end verticals.

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

2x4 SP No.2

2x8 SP 2400F 2.0E **BOT CHORD**

2x4 SP No.3

(lb/size) 1=2983/0-3-8, 4=3047/0-3-8 REACTIONS.

Max Horz 1=188(LC 8)

Max Uplift 1=-566(LC 8), 4=-701(LC 8)

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

TOP CHORD 1-2=-3196/576

BOT CHORD

1-5=-612/2642, 4-5=-612/2642 2-5=-637/3299, 2-4=-3180/734 WEBS

NOTES-

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

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

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 oc.

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 566 lb uplift at joint 1 and 701 lb uplift at joint 4
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1102 lb down and 241 lb up at 0-11-12, 1442 lb down and 306 lb up at 2-11-12, and 1442 lb down and 306 lb up at 4-11-12, and 1442 lb down and 306 lb up at 6-11-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

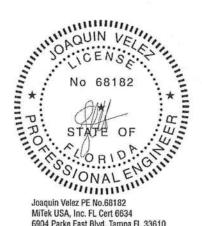
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

Vert: 1-3=-54, 1-4=-20

Concentrated Loads (lb) Vert: 7=-1102(F) 8=-1442(F) 9=-1442(F) 10=-1442(F)

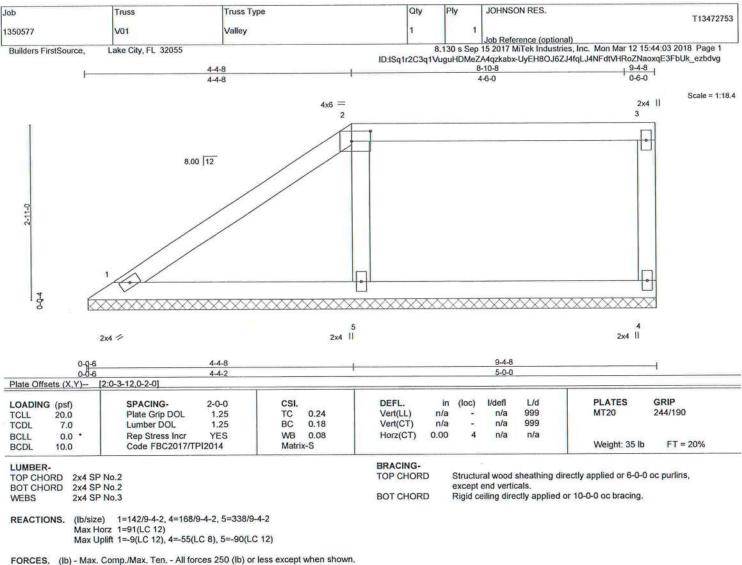


MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 13,2018

MARNING - 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 MITeMs connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and 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. Bracing indicated is to prevent buckling of individual truss web and/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property 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 Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





WEBS 2-5=-228/262

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 1, 55 lb uplift at joint 4 and 90 lb uplift at joint 5.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

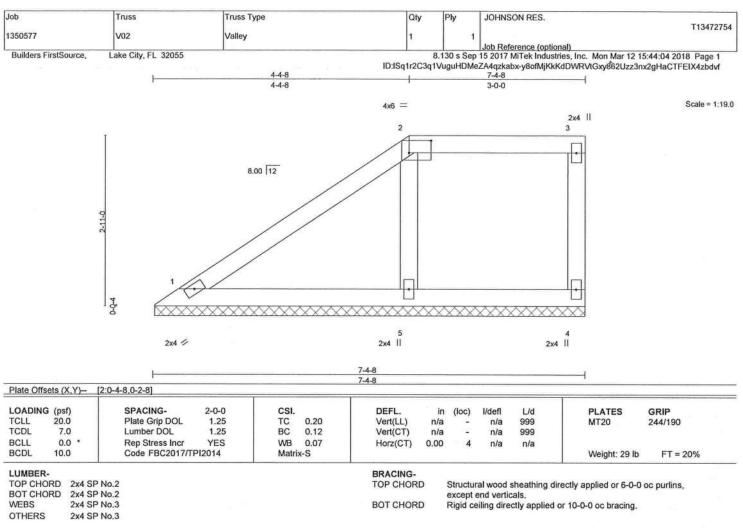


MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date

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(lb/size) 1=127/7-4-2, 4=82/7-4-2, 5=290/7-4-2

Max Horz 1=91(LC 12)

Max Uplift 1=-3(LC 12), 4=-36(LC 8), 5=-96(LC 12)

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

NOTES- (7)

REACTIONS.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.

3) Gable requires continuous bottom chord bearing.

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

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 1, 36 lb uplift at joint 4 and 96 lb uplift at joint 5.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

March 13,2018



JOHNSON RES. Job Truss Truss Type Qty Plv T13472755 1350577 V03 Valley | Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:44:04 2018 Page 1 Builders FirstSource, Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-y8ofMjKkKdDWRVtGxy862UzyqnwigIxCTFEIX4zbdvf 4-4-8 1-0-0 Scale = 1:18.5 4x6 = 2x4 || 2 3 8.00 12 207 2x4 || 2x4 / 2x4 11 4-4-8 5-4-8 4-4-2 1-0-0 [2:0-3-12,0-2-0] Plate Offsets (X,Y)-**PLATES** GRIP LOADING (psf) SPACING-CSI. DEFL I/defl L/d 2-0-0 (loc) Plate Grip DOL 1.25 TC Vert(LL) 999 MT20 244/190 20.0 0.27 n/a n/a TCLL 1.25 BC 0.14 Vert(CT) n/a n/a 999 TCDL 7.0 Lumber DOL WB 0.05 Horz(CT) -0.00 n/a n/a BCLL 0.0 Rep Stress Incr YES Weight: 23 lb FT = 20% Code FBC2017/TPI2014 Matrix-P BCDL 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, **BOT CHORD** 2x4 SP No.2 except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. BOT CHORD WEBS 2x4 SP No.3 (lb/size) 1=142/5-4-2, 4=-19/5-4-2, 5=229/5-4-2 REACTIONS. Max Horz 1=91(LC 12) Max Uplift 1=-14(LC 12), 4=-78(LC 3), 5=-53(LC 12) Max Grav 1=142(LC 1), 5=243(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1, 78 lb uplift at joint 4 and 53 lb uplift at joint 5.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

March 13,2018

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



Job	Truss	Truss Type	Qty	Ply	JOHNSON RES. T13472756
1350577	V04	Valley	1	1	113472730
Builders FirstSource.	Lake City, FL 32055			0.120 = Can	Job Reference (optional)
bullders i listodurce,	Lake Gity, FE 32033	1 = 1;			15 2017 MiTek Industries, Inc. Mon Mar 12 15:44:05 2018 Page 1 eZA4qzkabx-RLM1Z3LM4xLN3eSTVgfLaiW9oBGnPlxMivzr3Xzbdve

8.00 | 12 | 2x4 | 1 | 2 | 3 | 2x4 | 1 |

LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-P						Weight: 13 lb	FT = 20%

LUMBER-

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

P CHORD Structural wood sheathing directly applied or 3-4-8 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly

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

REACTIONS.

(lb/size) 1=102/3-4-2, 3=102/3-4-2

Max Horz 1=63(LC 12)

Max Uplift 1=-7(LC 12), 3=-49(LC 12)

Max Grav 1=102(LC 1), 3=111(LC 19)

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

NOTES- (6)

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1 and 49 lb uplift at joint 3.
- 6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

March 13,2018

Scale = 1:14.1

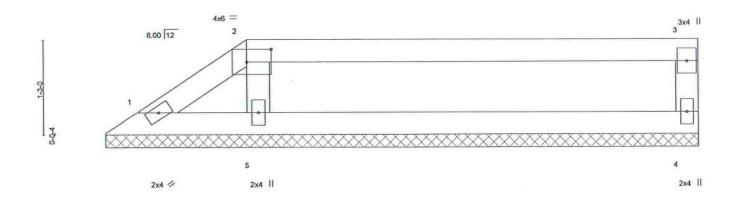
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIN-7473 rev. 10/03/2015 BEFORE USE.

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 ASITIPH 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	JOHNSON RES. T13472757
1350577	V05	Valley	1	1	Job Reference (optional)
Builders FirstSource,	Lake City, FL 32055				15 2017 MiTek Industries, Inc. Mon Mar 12 15:44:06 2018 Page 1 A4qzkabx-vXvQnPM_rETEho1f2NBa7v2HHbah8CCVxZjPbzzbdvd
¥1.	1-10-8	1	7-	9-0	
	1-10-8	1	5-1	0-8	

Scale = 1:14.5



	0-0-6	1-10-8					7-9-0					
	0-0-6	1-10-2					5-10-8	3				
Plate Offse	ets (X,Y)-	[2:0-3-12,0-2-0]		,								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	n/a	2	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a	827000000000000000000000000000000000000	
BCDL	10.0	Code FBC2017/TI	PI2014	Matri	x-S	CONTROL GROWING					Weight: 25 lb	FT = 20%

LUMBER-

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

BRACING-TOP CHORD

BOT CHORD

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

except end verticals.

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

REACTIONS. (lb/size) 1=56/7-8-10, 4=206/7-8-10, 5=264/7-8-10 Max Horz 1=33(LC 12)

Max Uplift 1=-15(LC 9), 4=-61(LC 8), 5=-54(LC 9)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 61 lb uplift at joint 4 and 54 lb uplift at joint 5.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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March 13,2018

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ASITIPIT 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 JOHNSON RES. T13472758 1350577 V06 Valley Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:44:06 2018 Page 1 Builders FirstSource Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-vXvQnPM_rETEho1f2NBa7v2Jlbcn8CRVxZiPbzzbdvd 1-10-8 5-9-0 1-10-8 3-10-8 Scale = 1:10.9 4x6 = 2x4 || 2 3 8.00 12 1-3-0 9-0-0 4 2x4 || 2x4 / 2x4 || 1-10-8 5-9-0 1-10-2 3-10-8 Plate Offsets (X,Y)-[2:0-3-12,0-2-0] LOADING (psf) SPACING-DEFL. in (loc) I/defl L/d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.21 Vert(LL) n/a 999 244/190 n/a MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.10 Vert(CT) n/a n/a 999 BCLL 0.0 * Rep Stress Incr YES WB 0.05 Horz(CT) -0.00 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-P Weight: 19 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins, BOT CHORD 2x4 SP No.2 2x4 SP No.3 WEBS **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size)

1=50/5-8-10, 4=130/5-8-10, 5=199/5-8-10

Max Horz 1=33(LC 12)

Max Uplift 1=-12(LC 12), 4=-40(LC 8), 5=-39(LC 9)

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

NOTES-

- NOTES- (7)

 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1, 40 lb uplift at joint 4 and 39 lb uplift at joint 5.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



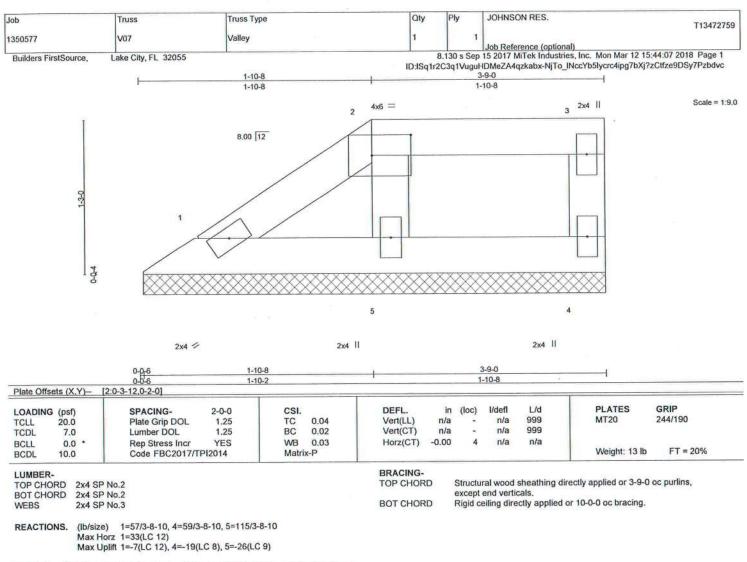
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 13,2018

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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, Alexandra, VA 22314.





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

NOTES- (7)

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1, 19 lb uplift at joint 4 and 26 lb uplift at joint 5.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

March 13,2018



Job Truss Truss Type Qty JOHNSON RES. T13472760 1350577 V08 Valley Job Reference (optional) 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:44:08 2018 Page 1 Builders FirstSource, Lake City, FL 32055 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-rw1AC5NENsjxw6B1AoD2CK8hcOlkc65oOtCVgrzbdvb 9-9-0 3-4-8 3-0-0 3-4-8

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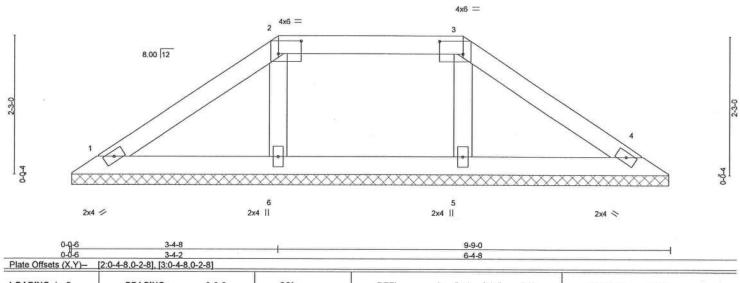


Plate Off	sets (X,Y)-	[2:0-4-8,0-2-8], [3:0-4-8,0	-2-8]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	n/a	_	n/a	999	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	n/a		n/a	999	171070700	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-S		(T-0)2(T-1)	2006	1,000,000	1000000	Weight: 34 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 **OTHERS**

2x4 SP No.3

REACTIONS. All bearings 9-8-4.

(lb) - Max Horz 1=-50(LC 8)

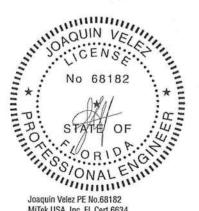
Max Uplift All uplift 100 lb or less at joint(s) 1, 4, 5, 6 Max Grav All reactions 250 lb or less at joint(s) 1, 4, 5, 6

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4, 5, 6,
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

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

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

March 13,2018

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 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.



JOHNSON RES. Job Truss Type Qty Ply Truss T13472761 1350577 V09 Valley 1 Job Reference (optional) Builders FirstSource, Lake City, FL 32055 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 12 15:44:08 2018 Page 1 ID:ISq1r2C3q1VuguHDMeZA4qzkabx-rw1AC5NENsjxw6B1AoD2CK8hgOJvc6MoOtCVgrzbdvb 2-10-8 5-9-0 2-10-8 2-10-8 Scale = 1:14.6 4x6 = 2 8.00 12 0-0-4 0-0-4 2x4 || 244 2x4 / 0-0-6 5-9-0 **PLATES** GRIP LOADING (psf) DEFL L/d SPACING-2-0-0 CSI in (loc) I/defl 244/190 Plate Grip DOL Vert(LL) 999 MT20 TCLL 20.0 1.25 TC 0.09 n/a n/a 999 TCDL 7.0 Lumber DOL 1.25 BC 0.06 Vert(CT) n/a n/a WB 0.00 3 n/a BCLL 0.0 Rep Stress Incr YES 0.02 Horz(CT) n/a FT = 20% Weight: 19 lb BCDL 10.0 Code FBC2017/TPI2014 Matrix-P BRACING-LUMBER-TOP CHORD TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins. 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS** (lb/size) 1=95/5-8-4, 3=95/5-8-4, 4=165/5-8-4 REACTIONS. Max Horz 1=-41(LC 8)

Max Uplift 1=-30(LC 12), 3=-34(LC 13), 4=-16(LC 12)

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

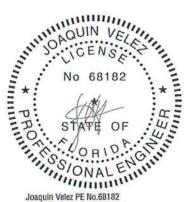
NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.

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

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

March 13,2018

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



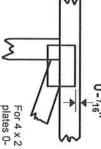
Symbols

PLATE LOCATION AND ORIENTATION



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

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



For 4 x 2 orientation, locate plates 0- ¹/46¹ from outside edge of truss.

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

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

PLATE SIZE



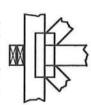
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

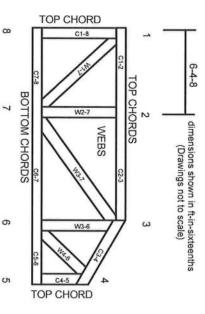
Industry Standards: ANSI/TPI1: National

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

DSB-89: BCSI:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

stem

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

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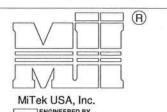
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

					*	٠

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

MII-T-BRACE 2

MiTek USA, Inc. Page 1 of 1



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

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

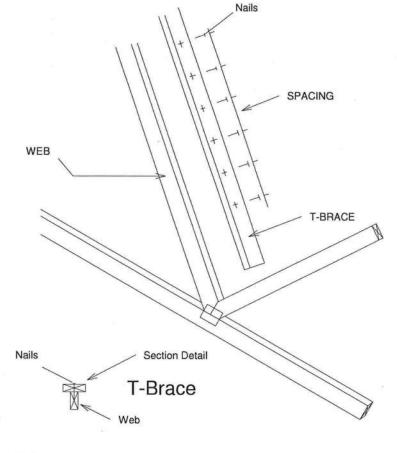
Nailing Pattern								
T-Brace size	Nail Size	Nail Spacing						
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.						

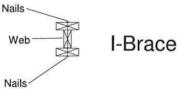
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)

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

	200 1000 1000 1000	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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WEB BRACING RECOMMENDATIONS

MII-WEBBRACE

MiTek USA Inc

Page 1 of 1



MiTek USA, Inc.	
ENGINEERED BY	
P LY PILLE	Affiliate

200000000000000000000000000000000000000				MAXIMUM TRUSS WEB FORCE (lbs.)(See note 7)								
BRACE .		24"(o.c.			48"	O.C.		72"	72" O.C.		
DAT OIZE	BF	ACING MA	ATERIAL	TYPE	BR	ACING MA	ATERIAL 1	YPE	BRACING M	IATERIAL TYPE		
	Α	В	С	D	Α	В	C	D	С	L D		
10'-0"	1610	1886	1886	2829								
12'-0"	1342	1572	1572	2358		3143	3143	4715	4715	7074		
14'-0"	1150	1347	1347	2021								
16'-0"	1006	1179	1179	1768		2358	2358	3536				
18'-0"	894	1048	1048	1572					3143	4715		
20'-0"	805	943	943	1414		1886	1886	2829				

^{*}Bay size shall be measured in between the centers of pairs of diagonals.

TYPE	BRACING MATERIALS	
Α	1 X 4 IND. 45 SP -OR- 1 X 4 #2 SRB (DF, HF, SPF)	
В	2 X 3 #3, STD, CONST (SPF, DF, HF, OR SP)	
С	2 X 4 #3, STD, CONST (SPF, DF, HF, OR SP)	
D	2 X 6 #3 OR BETTER (SPF, DF, HF, OR SP)	

GENERAL NOTES

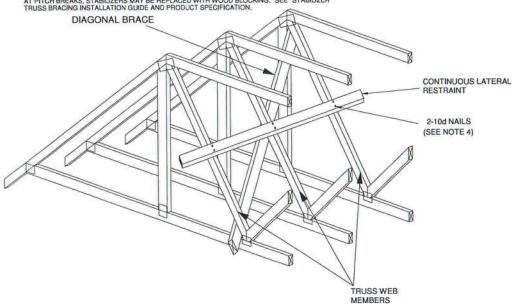
- DIAGONAL BRACING IS REQUIRED TO TRANSFER THE CUMULATIVE LATERAL BRACE FORCE INTO THE ROOF AND/OR CEILING DIAPHRAGM. THE DIAPHRAGM IS TO BE DESIGNED BY A QUALIFIED PROFESSIONAL.
- 2. THESE CALCULATIONS ARE BASED ON LATERAL BRACE CARRYING 2% OF THE WEB FORCE.
- THESE CALCULATIONS ARE BASED ON EXTERAL BRACE CARRITING 2-00 FIRE WEB FORCE.

 DIAGONAL BRACING MATERIAL MUST BE SAME SIZE AND GRADE OR BETTER, AS THE LATERAL BRACE
 MATERIAL, AND SHALL BE INSTALLED IN SUCH A MANNER THAT IT INTERSECTS WEB MEMBERS
 AT APPROX. 45 DEGREES AND SHALL BE NAILED AT EACH END AND EACH INTERMEDIATE TRUSS WITH 2-8d
 (0.131"x2.5") FOR 1x4 BRACES, 2-10d (0.131"x3") FOR 2x3 and 2x4 BRACES, AND 3-10d (0.131"x3") FOR 2x6 BRACES.

 CONNECT LATERAL BRACE TO EACH TRUSS WITH 2-8d (0.131"X2.5") NAILS FOR 1x4 LATERAL BRACES,
 2-10d (0.131"x3") NAILS FOR 2x3 and 2x4 LATERAL BRACES, AND 3-10d (0.131"x3") FOR 2x6 LATERAL BRACES.
- LATERAL BRACE SHOULD BE CONTINUOUS AND SHOULD OVERLAP AT LEAST ONE TRUSS SPACE FOR CONTINUITY.
- FOR ADDITIONAL GUIDANCE REGARDING DESIGN AND INSTALLATION OF BRACING, CONSULT DSB-89 TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES AND BCSI 1 GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES, JOINTLY PRODUCED BY WOOD TRUSS COUNCIL OF AMERICA and TRUSS PLATE INSTITUTE. www.sbcindustry.com and www.tpinst.org
- REFER TO SPECIFIC TRUSS DESIGN DRAWING FOR WEB MEMBER FORCE.
- TABULATED VALUES ARE BASED ON A DOL. = 1.15

FOR STABILIZERS:

FOR A SPACING OF 24" O.C. ONLY, MITEK "STABILIZER" TRUSS BRACING SYSTEMS CAN BE SUBSTITUTED FOR TYPE A, B, C AND D BRACING MATERIAL. DIAGONAL BRACING FOR STABILIZERS ARE TO BE PROVIDED AT BAY SIZE INDICATED ABOVE. WHERE DIAPHRAGM BRACING IS REQUIRED AT PITCH BREAKS, STABILIZERS MAY BE REPLACED WITH WOOD BLOCKING. SEE "STABILIZER" TRUSS BRACING INSTALLATION GUIDE AND PRODUCT SPECIFICATION.



This information is provided as a recommendation to assist in the requirement for permanent bracing of the individual truss web members. Additional bracing may still be required for the stability of the overall roof system. The method shown here is just one method that can be used to provide stability against web buckling.



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

SCAB-BRACE DETAIL

MII-SCAB-BRACE

MiTek USA, Inc.

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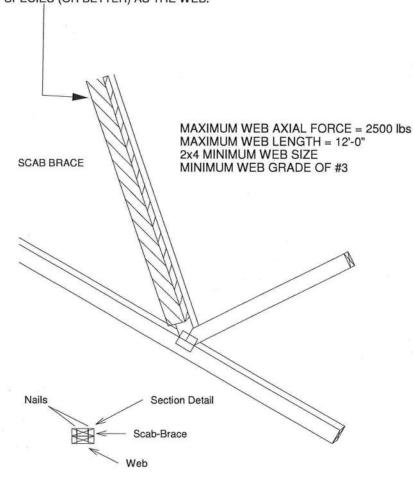


Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.

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

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

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



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



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

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

MII-REP05

MiTek USA, Inc. Page 1 of 1



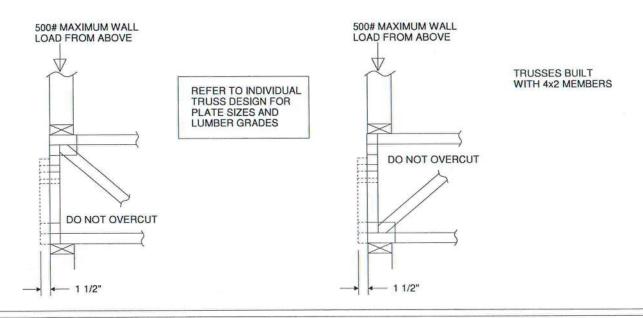
1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS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

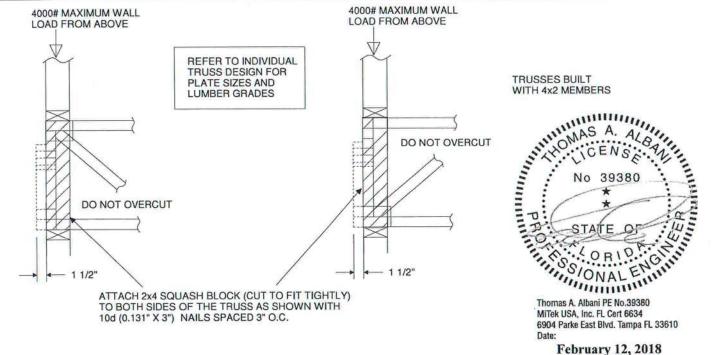
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE

APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

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

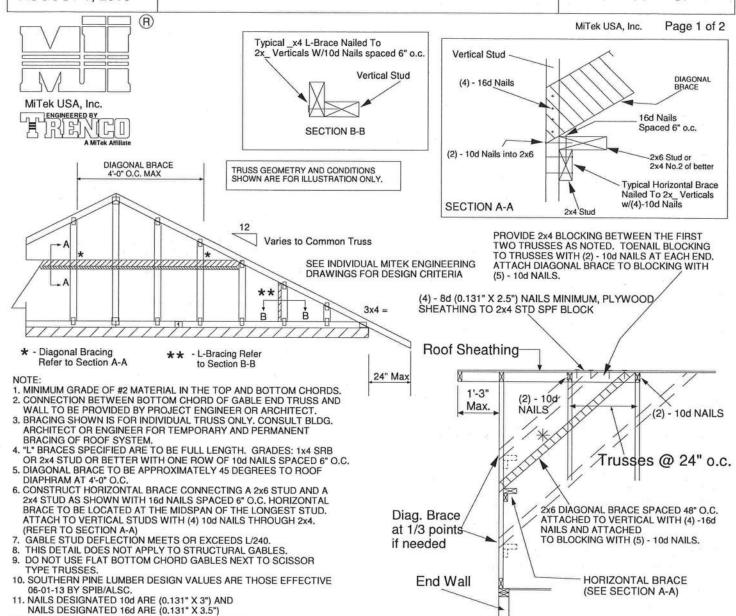
4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X_ORIENTATION ONLY.
6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.





Standard Gable End Detail

MII-GE130-D-SP



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

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

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

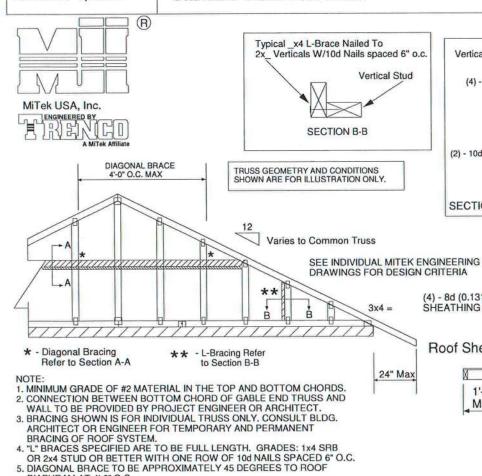
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



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

Standard Gable End Detail

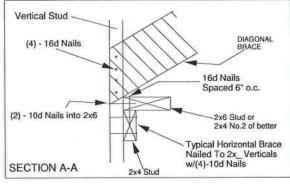
MII-GE130-SP



MiTek USA, Inc.

Page 1 of 2

(2) - 10d NAILS



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

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

Roof Sheathing

1'-3"

(2) - 10dMax. NAILS

Trusses @ 24" o.c.

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

End Wall

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.

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.

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")

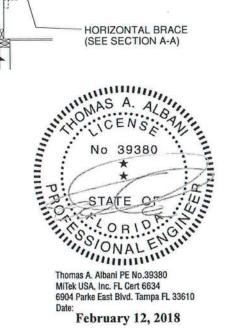
DIAPHRAM AT 4'-0" O.C.

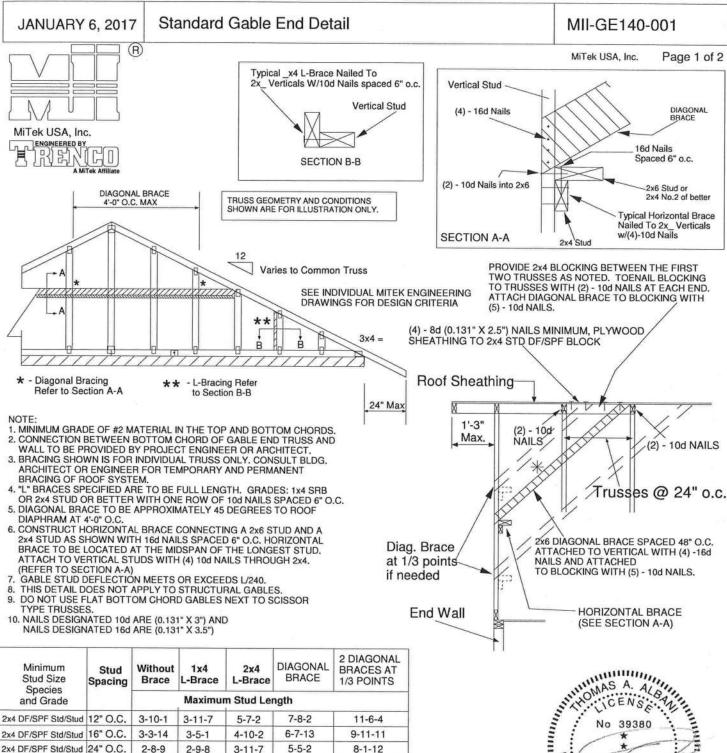
Minimum Stud Size	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
Species and Grade						
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1
2x4 SP No. 3 / Stud	24" O.C.	3-0-10	3-1-12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

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

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

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





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

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

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

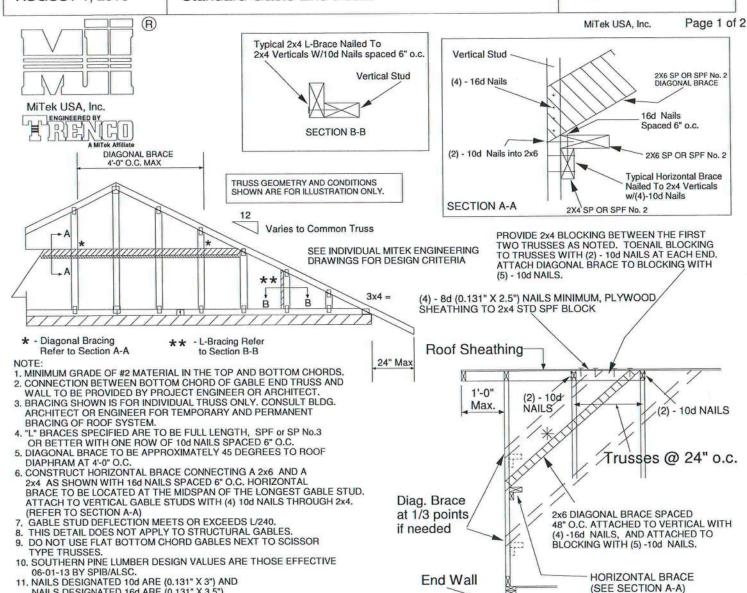


MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

January 19, 2018

Standard Gable End Detail

MII-GE170-D-SP



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

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

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

MAX MEAN ROOF HEIGHT = 30 FEET **EXPOSURE D**

ASCE 7-10 170 MPH

DURATION OF LOAD INCREASE: 1.60

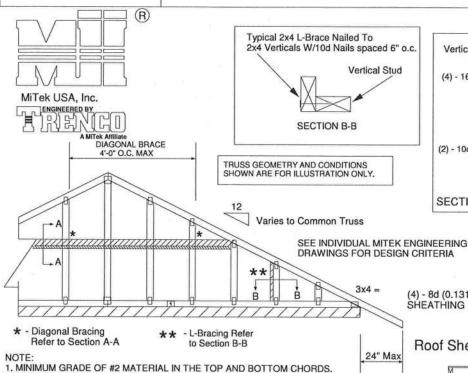
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



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

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.

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

Roof Sheathing

1'-0" (2) - 10dMax. NAILS (2) - 10d NAILS

Trusses @ 24" o.c.

5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD.

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.

ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A) GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

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

TYPE TRUSSES.

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

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

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

HORIZONTAL BRACE End Wall (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			Maximum Stud Length						
2x4 SP No. 3 / Stud	12" O.C.	3-7-12	5-4-11	6-2-1	10-11-3				
2x4 SP No. 3 / Stud	16" O.C.	3-2-8	4-8-1	6-2-1	9-7-7				
2x4 SP No. 3 / Stud	24" O.C.	2-7-7	3-9-12	5-2-13	7-10-4				
2x4 SP No. 2	12" O.C.	3-10-0	5-4-11	6-2-1	11-6-1				
2x4 SP No. 2	16" O.C.	3-5-13	4-8-1	6-2-1	10-5-7				
2x4 SP No. 2	24" O.C.	3-0-8	3-9-12	6-1-1	9-1-9				

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge addactived to both edges. Paster Faild blaces to harlow e 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.

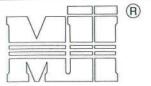
MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D ASCE 7-10 180 MPH **DURATION OF LOAD INCREASE: 1.60**

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





MiTek USA, Inc.

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

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



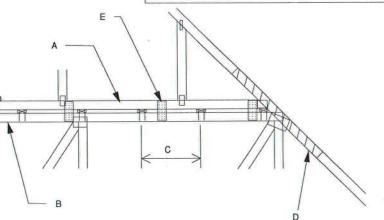
A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
SHALL BE CONNECTED TO EACH PURLIN
WITH (2) (0.131* X 3.5") TOE-NAILED.
B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24* O.C.
UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
CONNECT TO BASE TRUSS WITH (2) (0.131* X 3.5") NAILS EACH.
D - 2 X _ X 4-0" SCAB, SIZE TO MATCH TOP CHORD OF
PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED.
ON INTERSECTION, WITH (2) ROWS OF (0.131* X 3") NAILS @ 4* O.C.
SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING
IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH
DIRECTIONS AND:
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN. OR

DIRECTIONS AND:

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

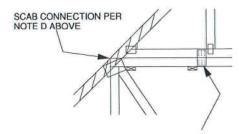
2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM
PIGGYBACK SPAN OF 12 ft.
FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH

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

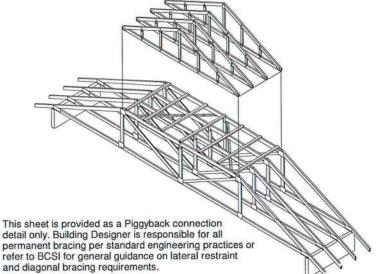


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

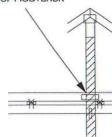
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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



VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



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

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

 ATTACH 2 x ___ x 4-0* SCAB TO EACH FACE OF
 TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131* X 3*) NAILS
 SPACED 4* O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH
 VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.)
- THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
 FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS.
- NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
- CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.



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

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT 7-10

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc.

ENGINEERED BY

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

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

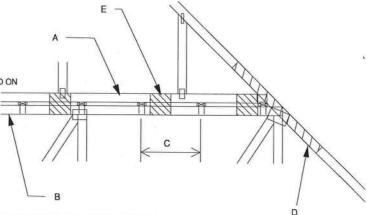
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR

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

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

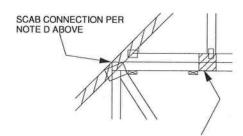
3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



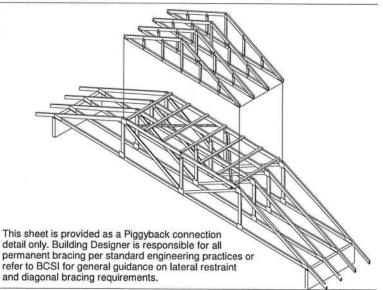


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

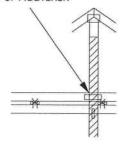
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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



VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



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

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

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

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

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

THE PIGGYBACK AND THE BASE TRUSS DESIGN.

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

January 19, 2018

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

MII-REP01A1

MiTek USA, Inc. Page 1 of 1

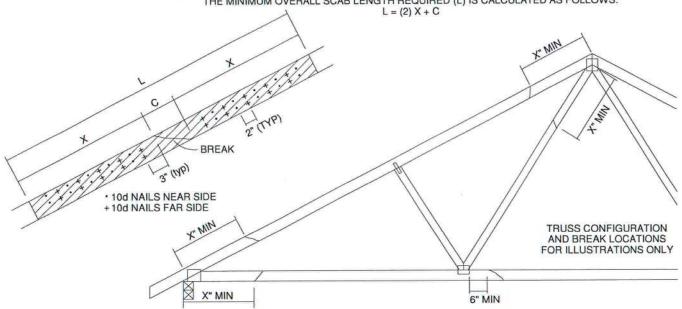


TOTAL NUMBER OF				MAX	IMUM FO	RCE (lbs)	15% LOA	D DURATI	ON	
OF BF		X	S	Р	D	F	SI	PF	Н	F
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

* DIVIDE EQUALLY FRONT AND BACK

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

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



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

DO NOT USE REPAIR FOR JOINT SPLICES

NOTES:

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

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

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

 4. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID

- LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.

 5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x_ORIENTATION ONLY.

 6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



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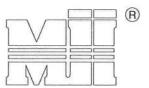
January 19, 2018

LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP

MiTek USA, Inc.

Page 1 of 1



MiTek USA, Inc. ENGINEERED BY 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

ILLUSTRATION PURPOSES ONLY

OE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail) DIAM. SPF-S HF SPF LONG .131 88.0 80.6 69.9 68.4 59.7 135 93.5 85.6 74.2 72.6 63.4 84.5 162 108.8 99.6 86.4 73.8 3.5 ONG .128 74.2 57.6 50.3 67.9 58.9 75.9 69.5 60.3 59.0 51.1 131 3.25" 81.4 64.6 63.2 74.5 .148 52.5

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

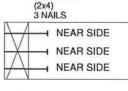
VIEWS SHOWN ARE FOR

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

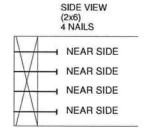
(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

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

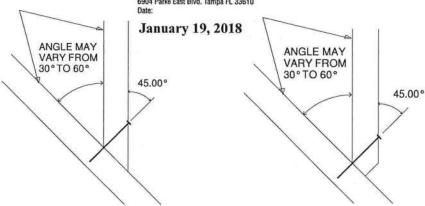


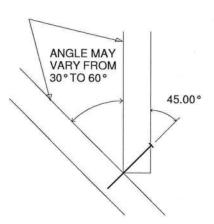


SIDE VIEW



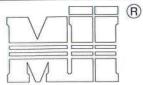
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MiTek USA, Inc.

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MiTek USA, Inc.

ENGINEERED BY

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

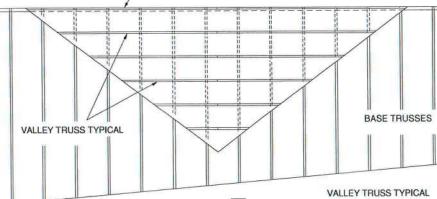
4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.

5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING

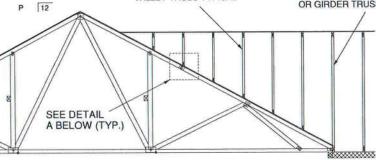
EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.

6. NAILING DONE PER NDS - 01

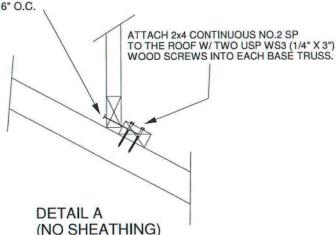
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



GABLE END, COMMON TRUSS OR GIRDER TRUSS



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



N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12

CATEGORY II BUILDING

EXPOSURE C

WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY)

MINIMUM REDUCED DEAD LOAD OF 6 PSF ON THE TRUSSES



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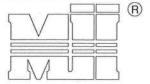
January 19, 2018

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2

MiTek USA, Inc.

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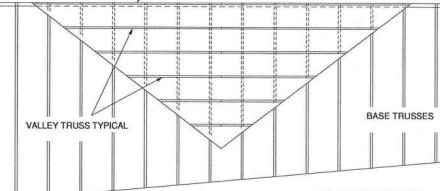


MiTek USA, Inc. ENGINEERED BY

GABLE END, COMMON TRUSS OR GIRDER TRUSS

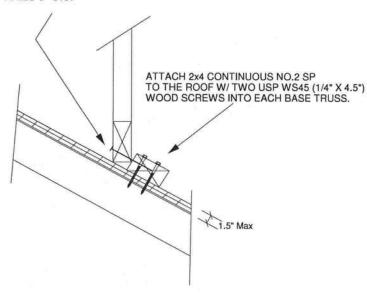
GENERAL SPECIFICATIONS

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

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



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

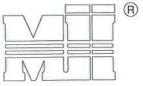
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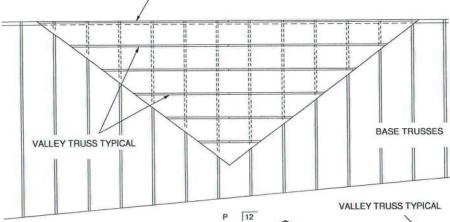
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ENGINEERED BY

GABLE END, COMMON TRUSS OR GIRDER TRUSS

GENERAL SPECIFICATIONS

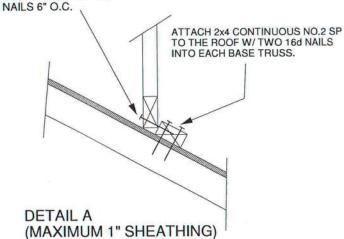
- NAIL SIZE 16d (0.131" X 3.5")
 INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING
- EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 5. NAILING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



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

SECURE VALLEY TRUSS W/ ONE ROW OF 16d

N.T.S.



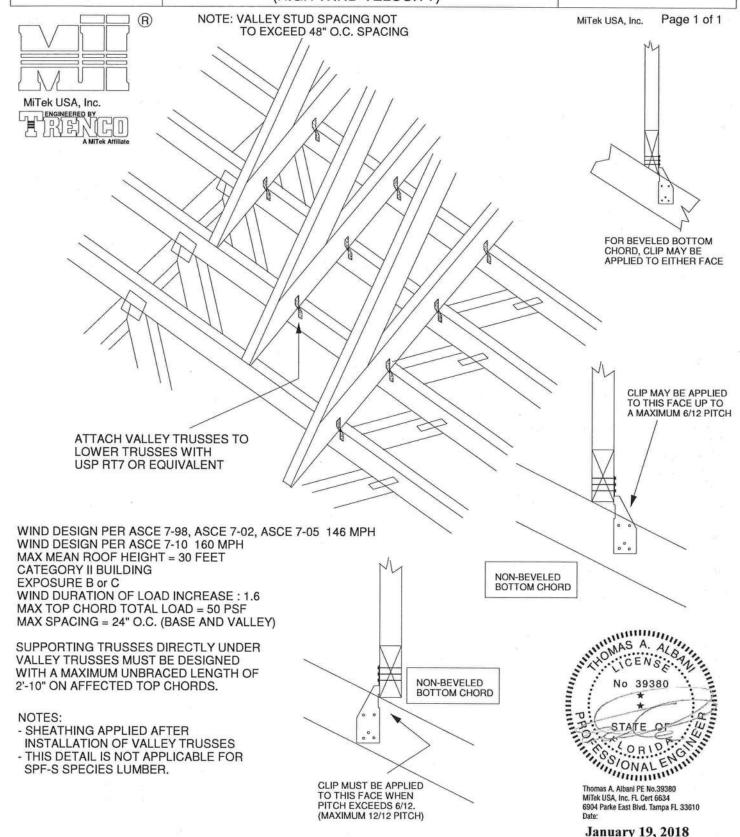
WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10 150 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12 CATEGORY II BUILDING EXPOSURE C OR B WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 60 PSF MAX SPACING = 24" O.C. (BASE AND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



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TRUSSED VALLEY SET DETAIL (HIGH WIND VELOCITY)

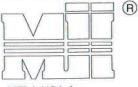
MII-VALLEY



Standard Gable End Detail

MII-GE146-001

MiTek USA, Inc. Page 1 of 2



MiTek USA, Inc. ENGINEERED BY

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

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

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

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

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

Roof Sheathing

- 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.

L-Bracing Refer

to Section B-B

5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

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

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

TYPE TRUSSES.

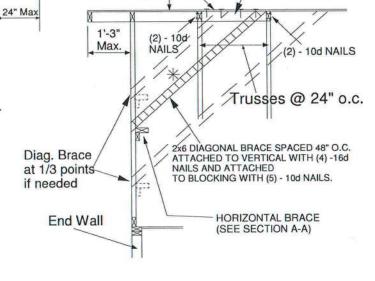
10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

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

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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January 19, 2018

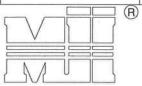
OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B

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ENGINEERED BY

TRUSS CRITERIA:

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

HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL

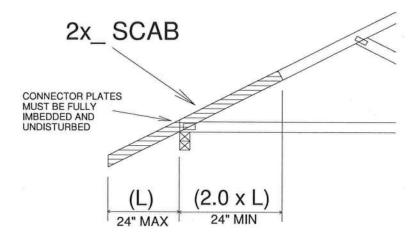
END BEARING CONDITION

NOTES:

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

THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
 WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED

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



IMPORTANT

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

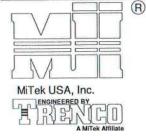
REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



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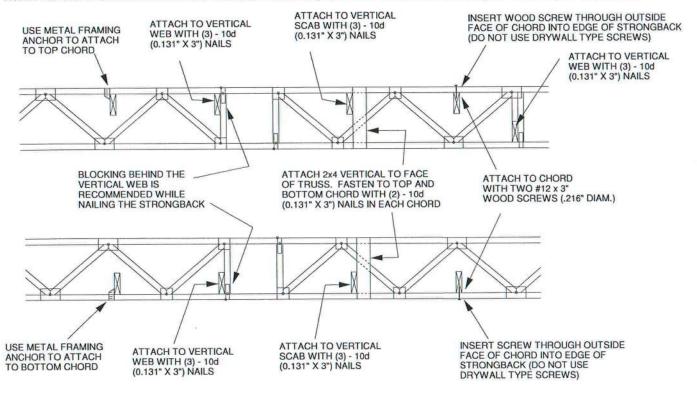
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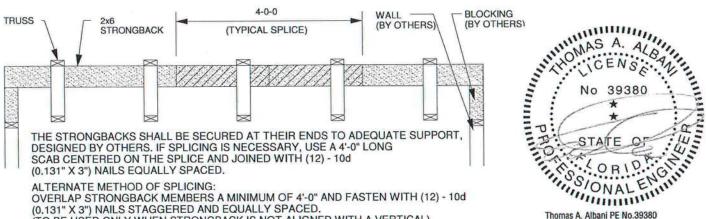


TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

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.





(TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)

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