



RE: 2802407

SIMQUE - LOT 57 PLL

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer: Aaron Simque Homes Project Name: 2802407 Lot/Block: 57 Model: 2281

Address: TBD Subdivision: The Preserve at Laurel Lake

City: Columbia Cty State: FL

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

Design Code: FBC2020/TPI2014

Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-16 Roof Load: 37.0 psf Wind Speed: 130 mph Floor Load: N/A psf

This package includes 37 individual, dated Truss Design Drawings and 0 Additional Drawings.

5/24/2021

5/24/2021

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	T24043985	CJ01	5/24/2021	21	T24044005	T08A	5/24/2021
2	T24043986	CJ01P	5/24/2021	22	T24044006	T08B	5/24/2021
3	T24043987	CJ03	5/24/2021	23	T24044007	T09	5/24/2021
4	T24043988	CJ03A	5/24/2021	24	T24044008	T10	5/24/2021
5	T24043989	CJ05	5/24/2021	25	T24044009	T11	5/24/2021
6	T24043990	CJ05A	5/24/2021	26	T24044010	T12	5/24/2021
7	T24043991	EJ01	5/24/2021	27	T24044011	T13	5/24/2021
8	T24043992	EJ02	5/24/2021	28	T24044012	T14	5/24/2021
9	T24043993	EJ03	5/24/2021	29	T24044013	T15	5/24/2021
10	T24043994	HJ05	5/24/2021	30	T24044014	T16	5/24/2021
11	T24043995	HJ10	5/24/2021	31	T24044015	T17	5/24/2021
12	T24043996	HJ10A	5/24/2021	32	T24044016	T18	5/24/2021
13	T24043997	T01	5/24/2021	33	T24044017	T19	5/24/2021
14	T24043998	T02	5/24/2021	34	T24044018	T20	5/24/2021
15	T24043999	T03	5/24/2021	35	T24044019	T21	5/24/2021
16	T24044000	T04	5/24/2021	36	T24044020	T22	5/24/2021
17	T24044001	T05	5/24/2021	37	T24044021	T23	5/24/2021
18	T24044002	T06	5/24/2021				VIVIV

The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision

T24044003

T24044004

based on the parameters provided by Builders FirstSource-Jacksonville.

T07

T08

Truss Design Engineer's Name: Velez, Joaquin

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

Florida COA: 6634

19

20

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

No 68182

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

May 24, 2021

Job SIMQUE - LOT 57 PLL Truss Truss Type Qty Ply T24043985 2802407 **CJ01** JACK-OPEN 8 Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:54:39 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGwSt4cPREnm5p9yfgzNgAycgdx-ifRb1GBfe0FEvLVY6Rbyq4CXnxCQtYy1JmmAVOzEuHk Scale = 1:8.2 0-4-11 6.00 12 2 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 244/190 TC 0.20 Vert(LL) 0.00 >999 240 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.04 0.00 180 Vert(CT) >999 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 2 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MP FT = 20% Weight: 6 lb

LUMBER-

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

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

REACTIONS.

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

Max Horz 2=57(LC 12)

Max Uplift 3=-6(LC 1), 2=-106(LC 12), 4=-19(LC 1) Max Grav 3=9(LC 8), 2=179(LC 1), 4=25(LC 16)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=106.



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

May 22,2021

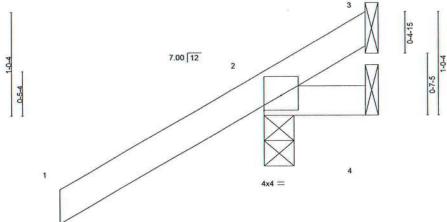
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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



Truss Type Qty SIMQUE - LOT 57 PLL Job Truss T24043986 JACK-OPEN 2802407 CJ01P Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:54:40 2021 Page 1
ID:RGwSt4cPREnm5p9yfgzNgAycgdx-Br?zFcCIPKN5XV4kg96BMHlfyLWSc?CAXQVk1rzEuHj Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 2-0-0 1-0-0 Scale = 1:10.9



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

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

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	0.43	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP	50 00					Weight: 7 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD

2x4 SP No.2

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

Max Horz 2=78(LC 12)

Max Uplift 3=-27(LC 1), 2=-166(LC 12), 4=-52(LC 19) Max Grav 3=25(LC 16), 2=254(LC 1), 4=47(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=166.



6904 Parke East Blvd. Tampa FL 33610 Date:

May 22,2021

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

ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job Truss Truss Type Qty Ply SIMQUE - LOT 57 PLL T24043987 2802407 CJ03 JACK-OPEN Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:54:41 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-f1ZLSyCwAdVy8efxDsdQvVHtHlrCLSSKm4FHZHzEuHi Scale = 1:13.3 6.00 12 0-5-4 9 Plate Offsets (X,Y)-- [2:Edge,0-1-8] LOADING (psf) SPACING-2-0-0 CSI DEFI (loc) I/defl L/d PLATES GRIP Plate Grip DOL 1.25 TC 0.20 TCLL 20.0 Vert(LL) 0.01 4-7 >999 240 MT20 244/190 7.0 BC TCDL Lumber DOL 1.25 0.15 Vert(CT) -0.01 4-7 >999 180 WB BCLL 00 Rep Stress Incr YES 0.00 Horz(CT) -0.00 3 n/a n/a Code FBC2020/TPI2014

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

BCDL

TOP CHORD 2x4 SP No.2

10.0

BOT CHORD 2x4 SP No.2

(size)

Max Horz 2=105(LC 12)

3=Mechanical, 2=0-3-8, 4=Mechanical

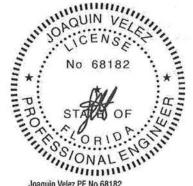
Max Uplift 3=-58(LC 12), 2=-98(LC 12), 4=-27(LC 9) Max Grav 3=60(LC 1), 2=210(LC 1), 4=50(LC 3)

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

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MP

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



Weight: 12 lb

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

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

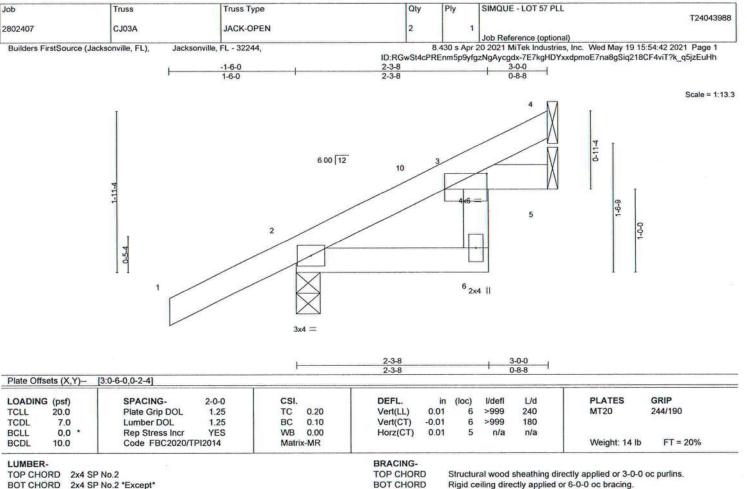
FT = 20%

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

3-6: 2x4 SP No.3

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

Max Horz 2=105(LC 12)

Max Uplift 4=-38(LC 12), 2=-97(LC 12), 5=-19(LC 12)

Max Grav 4=49(LC 1), 2=211(LC 1), 5=45(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.



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

May 22,2021

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ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job Truss Truss Type Qty Ply SIMQUE - LOT 57 PLL T24043989 2802407 **CJ05** JACK-OPEN Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville FL - 32244 8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:54:43 2021 Page 1 $ID: RGwS14cPREnm5p9yfgzNgAycgdx-bQh6tdEAiFlgOypJLHfv_wM8NYRQpMydDOkOe9zEuHg$ Scale = 1:18.2 6.00 12 0-5-4 3x4 = Plate Offsets (X,Y)- [2:0-0-4,0-0-3] LOADING (psf) SPACING-2-0-0 CSL DEFI (loc) I/deft L/d **PLATES** GRIP 20.0 Plate Grip DOL TCLL 1.25 TC 0.55 Vert(LL) 0.13 4-7 >473 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.55 Vert(CT) 0.11 >518 180

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.01

3

n/a

n/a

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

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

Weight: 18 lb

FT = 20%

LUMBER-

REACTIONS.

BCLL

BCDL

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

0.0

10.0

No.2 No.2

YES

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

Rep Stress Incr

Max Horz 2=155(LC 12) Max Uplift 3=-107(LC 12), 2=-114(LC 12), 4=-48(LC 9)

Code FBC2020/TPI2014

Max Grav 3=114(LC 1), 2=276(LC 1), 4=89(LC 3)

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

NOTES

 Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-MP

0.00

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=107, 2=114.



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

May 22,2021



SIMQUE - LOT 57 PLL Job Truss Truss Type Qty Ply T24043990 JACK-OPEN 2802407 CJ05A Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:54:44 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville FL - 32244 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-3cFU5zFoTYtX?6OW?B8X7vLWyqxYpCmS2TxAczEuHf 2-3-8 2-3-8 1-6-0 Scale = 1:18.2 6.00 12 10 0-5-4 6 2x4 || 3x4 = 2-3-8 [2:0-1-15,0-1-8], [3:0-3-0,0-2-4] Plate Offsets (X,Y)-SPACING-DEFL L/d **PLATES** GRIP LOADING (psf) 2-0-0 CSI. 244/190 20.0 Plate Grip DOL 1.25 TC 0.40 Vert(LL) 0.08 6 >731 240 MT20 TCLL TCDL 7.0 Lumber DOL 1.25 BC 0.34 Vert(CT) -0.08 6 >728 180 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.05 5 n/a BCLL n/a FT = 20%BCDL 10.0 Code FBC2020/TPI2014 Matrix-MR Weight: 20 lb LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins. **BOT CHORD** 2x4 SP No.2 *Except* BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

3-6: 2x4 SP No.3

REACTIONS.

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

Max Horz 2=155(LC 12)

Max Uplift 4=-87(LC 12), 2=-114(LC 12), 5=-24(LC 12)

Max Grav 4=102(LC 1), 2=278(LC 1), 5=83(LC 3)

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

NOTES-

- 1) Wind; ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=114



6904 Parke East Blvd. Tampa FL 33610

May 22,2021

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

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



Job SIMQUE - LOT 57 PLL Truss Truss Type Qty Ply T24043991 2802407 EJ01 Jack-Partial 24 | Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:54:45 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGwSt4cPREnm5p9yfgzNgAycgdx-XposlJFQEs?NdGziSiiN3LSVWM4jHEyvhiDVi2zEuHe 7-0-0 Scale = 1:23.5 6.00 12 2x4 < 10 0-5-4 13 14 6 3x6 = 3x4 = Plate Offsets (X,Y)-[2:0-0-14,0-1-8] LOADING (psf) SPACING-DEFL. **PLATES** 2-0-0 (loc) L/d GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.51 Vert(LL) 0.25 6-9 >329 240 244/190 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.75 Vert(CT) 0.23 6-9 >364 180 BCLL 0.0 Rep Stress Incr YES WB 0.16 Horz(CT) -0.01 2 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 31 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 WEDGE

Left: 2x4 SP No.3

REACTIONS.

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

Max Horz 2=197(LC 12)

Max Uplift 4=-64(LC 12), 2=-137(LC 12), 5=-125(LC 9) Max Grav 4=74(LC 1), 2=346(LC 1), 5=175(LC 3)

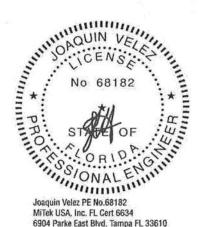
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-268/243 BOT CHORD 2-6=-471/230

WEBS 3-6=-261/536

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=137, 5=125.



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

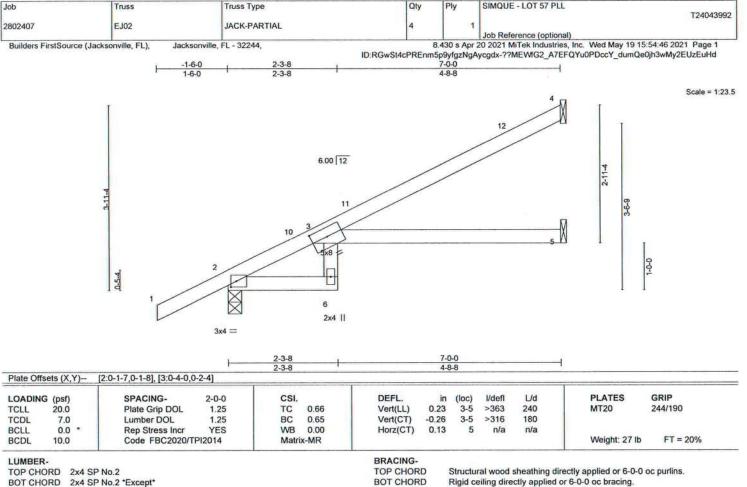
Rigid ceiling directly applied or 5-2-14 oc bracing.

6904 Parke East Blvd. Tampa FL 33610

May 22,2021

🛦 WARNING - Verity design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters as nown, 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 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/THI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





2x4 SP No.2 *Except* BOT CHORD

3-6: 2x4 SP No.3

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

Max Horz 2=197(LC 12)

Max Uplift 4=-118(LC 12), 2=-136(LC 12), 5=-27(LC 12)

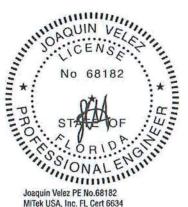
Max Grav 4=153(LC 1), 2=348(LC 1), 5=120(LC 3)

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

NOTES-

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4=118, 2=136.



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

May 22,2021

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



Job Truss Truss Type Qty Ply SIMQUE - LOT 57 PLL T24043993 JACK-OPEN 2802407 EJ03 Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:54:47 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGwSt4cPREnm5p9yfgzNgAycgdx-TBwdj?HhlTF5sZ64a7kr9mXsw9vDlAxC80ibnxzEuHc Scale = 1:16.8 7.00 12

3-0-0

Plate Off	fsets (X,Y)- [2:Edge,0-1-4]										
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	0.39	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	4-7	>999	180	100.00	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP						Weight: 13 lb	FT = 20%

3x4 =

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.

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

Max Horz 2=135(LC 12)

Max Uplift 3=-57(LC 12), 2=-123(LC 12)

0-5-4

Max Grav 3=63(LC 19), 2=253(LC 1), 4=48(LC 3)

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

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=123.



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

May 22,2021



Job SIMQUE - LOT 57 PLL Truss Type Qty Truss Ply T24043994 2802407 HJ05 DIAGONAL HIP GIRDER Job Reference (optional) Builders FirstSource (Jacksonville, FL), 8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:54:48 2021 Page 1 Jacksonville FL - 32244 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-yOU?wLlJWnNyUjhH8qF4hz4?zZAUUdBMNfR9JNzEuHb 4.95 12 Plate Offsets (X,Y)-[2:Edge,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) **I/defl** L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.56 Vert(LL) -0.06 4-7 >893 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.43 Vert(CT) 0.05 >951 180 4-7 0.0 * BCLL Rep Stress Incr NO WR 0.00 Horz(CT) 0.01 Code FBC2020/TPI2014 BCDL 10.0 Matrix-MP Weight: 18 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 4-2-3 oc purlins. 2x4 SP No.2 BOT CHORD **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-4-9, 4=Mechanical

Max Horz 2=134(LC 8)

Max Uplift 3=-77(LC 8), 2=-281(LC 4), 4=-46(LC 16) Max Grav 3=54(LC 1), 2=282(LC 1), 4=67(LC 30)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=281
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 103 lb up at 1-6-1, and 85 lb down and 103 lb up at 1-6-1 on top chord, and 72 lb down and 74 lb up at 1-6-1, and 72 lb down and 74 lb up at 1-6-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

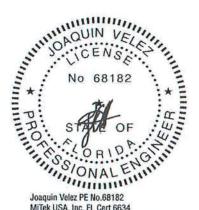
LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 8=51(F=25, B=25) 9=69(F=34, B=34)



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May 22,2021

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



Truss Type Qty Ply Job Truss SIMQUE - LOT 57 PLL T24043995 2802407 HJ10 DIAGONAL HIP GIRDER 3 Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:54:50 2021 Page 1 Jacksonville FL - 32244 Builders FirstSource (Jacksonville, FL) ID:RGwSt4cPREnm5p9yfgzNgAycgdx-umclL1JZ2Odgj1rfFFHYmO9KvNp2yR5fqzwFNGzEuHZ 9-10-1 Scale = 1:23.1 12 4.25 12 3x4 = 3 0-5-4 14 15 7 2x4 || 3×4 = 3x4 = 9-10-1 4-6-0 LOADING (psf) SPACING-CSI. DEFL 2-0-0 1 /d PLATES GRIP (loc) I/defl 244/190 20.0 Plate Grip DOL 0.59 TCLL 1.25 TC Vert(LL) 0.12 >999 6-7 240 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.62 -0.12 >980 180 Vert(CT) 6-7 0.0 BCLL Rep Stress Incr NO WB 0.42 Horz(CT) -0.015 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-MS Weight: 43 lb FT = 20% 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 Rigid ceiling directly applied or 6-8-13 oc bracing. WEBS 2x4 SP No.3

BOT CHORD

REACTIONS.

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

Max Horz 2=215(LC 4)

Max Uplift 4=-126(LC 4), 2=-477(LC 4), 5=-276(LC 4) Max Grav 4=151(LC 1), 2=526(LC 1), 5=297(LC 1)

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

TOP CHORD 2-3=-765/594

BOT CHORD 2-7=-663/692, 6-7=-663/692 3-7=-143/276, 3-6=-732/701 **WEBS**

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=126, 2=477, 5=276
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 77 lb up at 1-6-1, 87 lb down and 77 lb up at 1-6-1, 28 lb down and 57 lb up at 4-4-0, 28 lb down and 57 lb up at 4-4-0, and 52 lb down and 115 lb up at 7-1-15, and 52 lb down and 115 lb up at 7-1-15 on top chord, and 57 lb down and 46 lb up at 1-6-1, 57 lb down and 46 lb up at 1-6-1, 20 lb down and 35 lb up at 4-4-0, 20 lb down and 35 lb up at 4-4-0, and 41 lb down and 63 lb up at 7-1-15, and 41 Ib down and 63 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

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

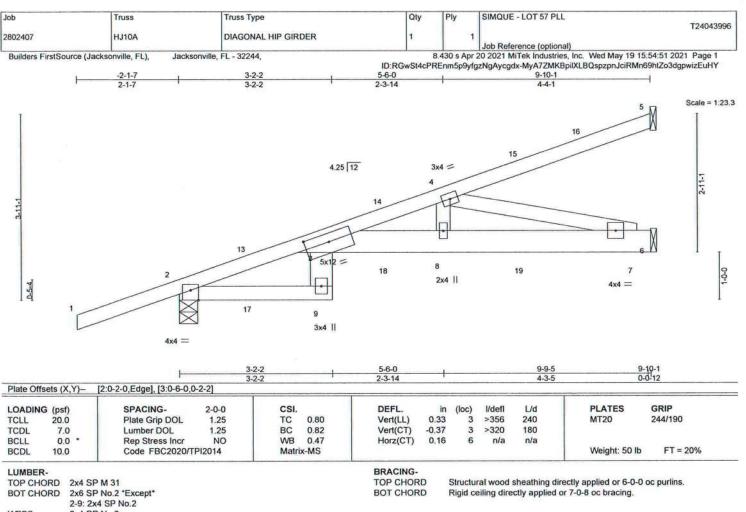


Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

May 22,2021

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





WERS 2x4 SP No 3

REACTIONS.

(size) 5=Mechanical, 2=0-4-9, 6=Mechanical

Max Horz 2=215(LC 4)

Max Uplift 5=-82(LC 4), 2=-392(LC 4), 6=-219(LC 8) Max Grav 5=111(LC 1), 2=542(LC 1), 6=351(LC 1)

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

TOP CHORD 3-11=-268/88, 3-4=-1277/818

BOT CHORD 3-8=-885/1214, 7-8=-893/1225

4-8=-208/373, 4-7=-1262/920 WEBS

NOTES.

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb)
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 77 lb up at 1-6-1, 87 lb down and 77 lb up at 1-6-1, 28 lb down and 36 lb up at 4-4-0, 28 lb down and 36 lb up at 4-4-0, and 51 lb down and 94 lb up at 7-1-15, and 51 lb down and 94 lb up at 7-1-15 on top chord, and 24 lb down and 46 lb up at 1-6-1, 24 lb down and 46 lb up at 1-6-1, 24 lb down and 28 lb up at 4-4-0, 24 lb down and 28 lb up at 4-4-0, and 41 lb down and 41 lb up at 7-1-15, and 41 lb down and 41 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 3-5=-54, 9-10=-20, 3-6=-20

Concentrated Loads (lb)

Vert: 14=-3(F=-2, B=-2) 15=-51(F=-26, B=-26) 18=-31(F=-15, B=-15) 19=-83(F=-41, B=-41)



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May 22,2021

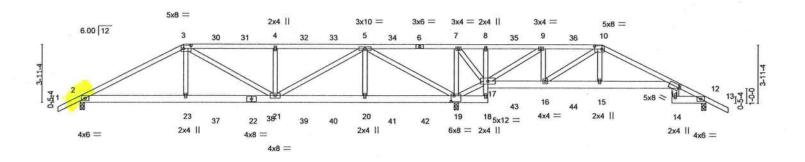
▲ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTEk® connectors. This design is based only upon parameters and new property of a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design and permanent building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job	Truss	Trus	s Type	Qty	Ply	SIMQUE	- LOT 57 PLL		T2404	13997
2802407	T01	HIP	GIRDER	1		2 lob Bofe	erence (optional)		12404	3991
Builders FirstSou	urce (Jacksonville, FL),	Jacksonville, FL - 3	2244,			or 20 2021 N	liTek Industries, Ir		15:54:58 2021 Page	
				ID:RGwSt4cP	REnm5p9yf	gzNgAycgdx-	-fJ5n1mPaAseXh(GSCjxRQ54Uecl	obwqxtqgDshgozEuHl	R
c1-6-0 ₁	7-0-0	13-2-14	19-3-15	25-5-12	27-7-8	31-4-1	35-4-0	40-0-8	42-4-0 43-10-0	
1-6-0	7-0-0	6-2-14	6-1-1	6-1-13	2-1-12	3-8-8	3-11-15	4-8-8	2-3-8 1-6-0	



31	·	7-0-0	3-2-14	19-3-15	25-5-12	27-7-8	31-4-1	35-4-0	40-0-8	42-4-0
j		7-0-0	-2-14	6-1-1	6-1-13	2-1-12	3-8-8	3-11-15	4-8-8	2-3-8
Plate Offse	ets (X,Y)-	[3:0-6-0,0-2-8], [10:0-6-0	,0-2-8], [11:0-0	-14,0-2-4], [19:0-2-	8,0-4-8]				11.39.2	
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.80	Vert(LL)	0.13 21-23	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.42	Vert(CT)	-0.16 11-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.88	Horz(CT)	0.09 12	n/a	n/a		
BCDL	10.0	Code FBC2020/1	PI2014	Matrix-MS	1 215 3				Weight: 503 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2 *Except*

8-18: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS.

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

Max Horz 2=92(LC 27) Max Uplift 2=-1172(LC 5), 12=-279(LC 9), 19=-3286(LC 4)

Max Grav 2=1480(LC 19), 12=514(LC 20), 19=4727(LC 1)

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

TOP CHORD 2-3=-2639/2284, 3-4=-2408/2359, 4-5=-2408/2359, 5-7=-1671/3040, 7-8=-1652/2912, 8-9=-1629/2879, 9-10=-418/758, 10-11=-654/333, 11-12=-426/246

BOT CHORD 2-23=-2005/2289, 21-23=-2026/2312, 20-21=-1208/781, 19-20=-1208/781,

18-19=-321/185, 16-17=-758/609, 15-16=-189/594, 11-15=-180/548, 11-14=-141/369

3-23=-495/697, 3-21=-411/153, 4-21=-709/581, 5-21=-1359/1980, 5-20=-265/539,

5-19=-4121/3140, 7-19=-818/565, 17-19=-3040/1894, 7-17=-92/255, 9-17=-2546/1472,

9-16=-473/972, 10-16=-1591/919, 10-15=-357/742

NOTES-

WEBS

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.

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

4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1172, 12=279, 19=3286.



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

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

6-0-0 oc bracing: 18-19,17-18,16-17.

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

May 22,2021

Continued on page 2

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MIT ek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly design. Properly design parameters and properly design parameters and properly design parameters and properly design. Properly design parameters and properly design parameters and properly design. Properly design parameters and properly design parameters and properly design parameters and properly design. Properly design parameters and properly design paramete



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 57 PLL	24043997
2802407	T01	HIP GIRDER	1	2	Job Reference (optional)	24043331

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:54:59 2021 Page 2 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-7Vf9E5QCx9mOIP1OHeyfel1pM?w9ZO7zvtcECEzEuHQ

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 129 lb down and 138 lb up at 7-0-0, 110 lb down and 138 lb up at 9-0-12, 110 lb down and 138 lb up at 11-0-12, 110 lb down and 138 lb up at 13-0-12, 110 lb down and 138 lb up at 15-0-12, 110 lb down and 138 lb up at 17-0-12, 110 lb down and 138 lb up at 12-0-12, 110 lb down and 138 lb up at 12-3-4, 110 lb down and 138 lb up at 25-3-4, 110 lb down and 138 lb up at 27-3-4, 99 lb down and 118 lb up at 25-3-4, 110 lb down and 118 lb up at 23-3-4, and 117 lb down and 118 lb up at 35-4-0 on top chord, and 332 lb down and 399 lb up at 7-0-0, 86 lb down and 88 lb up at 9-0-12, 86 lb down and 88 lb up at 11-0-12, 86 lb down and 88 lb up at 13-0-12, 86 lb down and 88 lb up at 12-0-12, 86 lb down and 88 lb up at 12-0-12, 86 lb down and 88 lb up at 12-0-12, 86 lb down and 88 lb up at 21-0-12, 86 lb down and 88 lb up at 21-0-12, 86 lb down and 88 lb up at 21-0-12, 86 lb down and 88 lb up at 21-0-12, 86 lb down and 88 lb up at 21-0-12, 86 lb down and 88 lb up at 23-3-4, 86 lb down and 88 lb up a

LOAD CASE(S) Standard

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

Uniform Loads (plf)

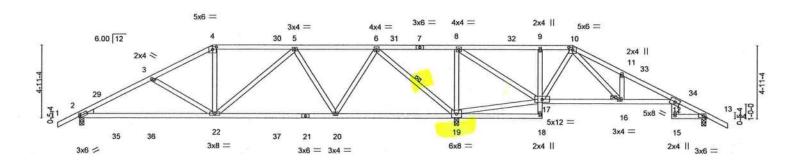
Vert: 1-3=-54, 3-10=-54, 10-11=-54, 11-13=-54, 18-24=-20, 11-17=-20, 14-27=-20

Concentrated Loads (lb)

Vert: 3=-110(F) 6=-110(F) 10=-99(F) 18=-63(F) 8=-110(F) 23=-332(F) 21=-63(F) 4=-110(F) 5=-110(F) 20=-63(F) 7=-110(F) 19=-63(F) 9=-99(F) 16=-76(F) 15=-399(F) 30=-110(F) 31=-110(F) 32=-110(F) 33=-110(F) 34=-221(F) 35=-99(F) 36=-99(F) 37=-63(F) 38=-63(F) 39=-63(F) 40=-63(F) 41=-127(F) 42=-63(F) 43=-76(F) 44=-76(F)



Job		Truss	3		Truss Ty	/ре				Qty	Ply	SIMQUE -	LOT 57	PLL			
2802407		T02			HIP					1	1						T2404399
		CHECO			200							Job Refere	ence (op	itional)			
Builders Firsts	Source (Jacks	onville,	FL),	Jackso	nville, FL - 3224	4,				8.	430 s Apr 2	20 2021 MiT	rek Indu	stries, Inc. V	Ved May 19	15:55:01 2	021 Page 1
									ID:RGwS	t4cPREn	m5p9yfgzN	NgAycgdx-3	umvfnS7	Sn06YjBnO	3_7jj6BGpXf	1HJGMB5	LG7zEuHO
c1-6-0 ₁	4-11-14	1	9-0-0	1	14-6-11	- 1	20-0-12	1	25-5-12		31-3-	8 ,	33-4-0	36-8-4	40-0-8	42-4-0	43-10-0
1-6-0	4-11-14		4-0-2	-	5-6-11		5-6-1		5-5-0	1	5-9-1	2	2-0-8	3-4-4	3-4-4	2-3-8	1-6-0



1		9-0-0	17-3-1		1	25-5-12	31-	Tricks note:	36-8-4		42-4-0
	,	9-0-0	8-3-1	1		8-2-1	5-9	-12	5-4-12	3-4-4	2-3-8
Plate Offse	ets (X,Y)	[2:0-0-14,0-1-8], [4:0-3-0,	0-2-0], [10:0-3-	0,0-2-0]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	0.37 22-25	>818	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	0.33 22-25	>925	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.07 13	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix	x-MS					Weight: 233 lb	FT = 20%

BRACING-

WEBS

JOINTS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

9-18: 2x4 SP No.3, 12-15: 2x6 SP No.2

WEBS 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3

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

Max Horz 2=113(LC 16)

Max Uplift 2=-568(LC 9), 13=-194(LC 13), 19=-1166(LC 8) Max Grav 2=829(LC 23), 13=304(LC 24), 19=2264(LC 1)

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

TOP CHORD 2-3=-1233/1853, 3-4=-976/1697, 4-5=-829/1568, 5-6=-396/1211, 6-8=-596/1482,

8-9=-306/594, 9-10=-319/608 BOT CHORD 2-22=-1579/1060, 20-22=-116

2-22=-1579/1060, 20-22=-1161/669, 19-20=-587/406, 16-17=-323/384, 12-16=-25/262

3-22=-282/317, 4-22=-625/204, 5-22=-223/347, 5-20=-640/401, 6-20=-1049/823,

6-19=-1498/1601, 8-19=-875/477, 17-19=-1410/712, 8-17=-429/1030, 10-17=-554/295,

10-16=-315/572, 11-16=-265/236

NOTES-

WEBS

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 33-4-0, Exterior(2R) 33-4-0 to 37-6-15, Interior(1) 37-6-15 to 43-10-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=568, 13=194, 19=1166.



Structural wood sheathing directly applied or 5-2-1 oc purlins.

6-19

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

1 Row at midpt

1 Brace at Jt(s): 16

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

May 22,2021

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

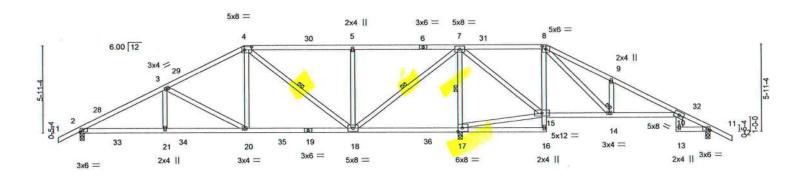
Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

ANS/ITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



SIMOUE - LOT 57 PLL Job Truss Truss Type Qty Ply T24043999 T03 HIP 2802407 Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:55:02 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-X4KHs7T5D48zAtmzymVMGwf0HCvrml6QbrqupZzEuHN 5-5-12 31-4-0 35-8-4 40-0-8 42-4-0 43-10-0 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 11-0-0 5-10-4

Scale = 1:75.1



	5-4	8-0 , 11-0-0		18-2-14	-	25-5-12	1	31-3-	8	35-8-4	40-0-8	42-4-0
	5-1	8-0 5-4-0		7-2-14	10	7-2-14		5-9-1	2	4-4-12	4-4-4	2-3-8
Plate Offse	ets (X,Y)-	[4:0-6-0,0-2-8], [8:0-3-0	0-2-4], [17:0-3-8	3,0-3-0]								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	0.19	18-20	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.19	10-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code FBC2020/	TPI2014	Matri	x-MS	The second second					Weight: 239 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-

REACTIONS.

2x4 SP No.2 TOP CHORD

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

8-16: 2x4 SP No.3, 10-13: 2x6 SP No.2

WEBS 2x4 SP No.3

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

Max Horz 2=-136(LC 17)

Max Uplift 2=-571(LC 9), 11=-174(LC 13), 17=-1078(LC 8) Max Grav 2=864(LC 25), 11=276(LC 24), 17=2518(LC 2)

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

2-3=-1323/2005, 3-4=-872/1479, 4-5=-357/1016, 5-7=-357/1016, 7-8=-176/603, TOP CHORD

8-9=-49/282

2-21=-1683/1139, 20-21=-1683/1139, 18-20=-1111/741, 17-18=-1374/667, 8-15=-740/364, **BOT CHORD**

14-15=-599/431 WEBS

3-21=-360/214, 3-20=-475/672, 4-20=-755/481, 4-18=-739/487, 5-18=-426/326,

7-18=-1728/1723, 7-17=-1990/1460, 15-17=-1357/610, 7-15=-308/996, 8-14=-390/690,

9-14=-308/286

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 31-2-6, Exterior(2R) 31-2-6 to 35-8-4, Interior(1) 35-8-4 to 43-10-0 zone; porch left exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=571, 11=174, 17=1078.



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

4-18, 7-18, 7-17

Rigid ceiling directly applied or 4-3-13 oc bracing.

1 Row at midpt

1 Brace at Jt(s): 14

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

May 22,2021

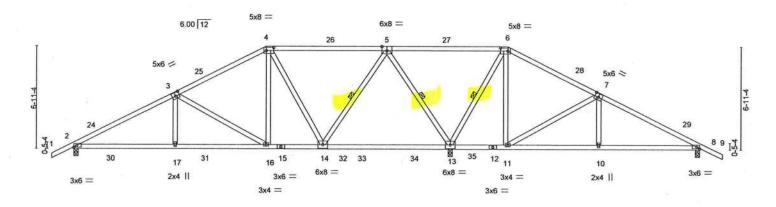
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

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

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



Job	Truss	Truss Type		Q	y Pl	У	SIMQUE - LOT 57 PLL		
2802407	T04	HIP		1		1			T24044000
							Job Reference (optional)		
Builders FirstSourc	e (Jacksonville, FL),	Jacksonville, FL - 32244,			8.430	s Apr 2	0 2021 MiTek Industries, Inc. We	ed May 19 15:55:04	2021 Page 1
				ID:RGwSt	4cPREnm!	5p9yfgz	NgAycgdx-UTS2HpULliOhPBwM	4BYqLLkee0ZpEi8i	39J?tSzEuHL
r-1-6-0 ₁	6-10-0	13-0-0	21-2-0		29-4-0		35-6-0	42-4-0	43-10-0
1-6-0	6-10-0	6-2-0	8-2-0		8-2-0		6-2-0	6-10-0	1-6-0



		6-10-0	13-0-0	16-10-4		25-5-12		29-4-0)	35-6-0	42-4-0	F
		6-10-0	6-2-0	3-10-4	,	8-7-8	,	3-10-4	1	6-2-0	6-10-0	1
Plate Offse	ets (X,Y)-	[3:0-3-0,0-3-0], [4:0-6-0,	0-2-8], [5:0-4-0	,Edge], [6:0-6	-0,0-2-8], [7	:0-3-0,0-3-0]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.90	Vert(LL)	0.32	13-14	>944	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.33	13-14	>940	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code FBC2020/1	TPI2014	Matri	x-MS	III ICA-OHIOSENODA				34-65555.7	Weight: 230 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 WEBS

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

Rigid ceiling directly applied or 4-5-5 oc bracing. 1 Row at midpt 5-14, 5-13, 6-13

REACTIONS.

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

Max Horz 2=-156(LC 13) Max Uplift 2=-496(LC 9), 13=-1018(LC 9), 8=-288(LC 13) Max Grav 2=912(LC 25), 13=2197(LC 2), 8=512(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1383/1775, 3-4=-799/1094, 4-5=-457/807, 5-6=-527/731, 6-7=-420/417,

7-8=-541/317

BOT CHORD 2-17=-1468/1186, 16-17=-1472/1188, 14-16=-733/681, 11-13=-280/621, 10-11=-157/456,

8-10=-158/454

WEBS 3-17=-488/290, 3-16=-611/870, 4-16=-690/410, 4-14=-466/479, 5-14=-1045/793,

5-13=-1286/1396, 6-13=-945/453, 6-11=-153/444, 7-11=-644/378, 7-10=0/303

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-15, Interior(1) 17-2-15 to 29-4-0, Exterior(2R) 29-4-0 to 33-6-15, Interior(1) 33-6-15 to 43-10-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=496, 13=1018, 8=288.



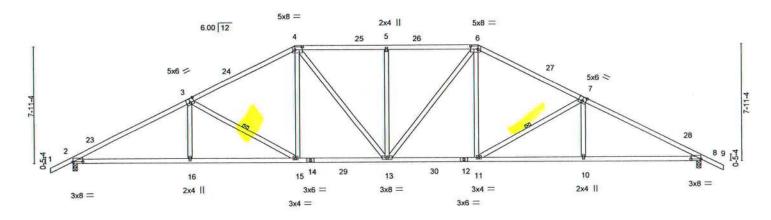
6904 Parke East Blvd. Tampa FL 33610

May 22,2021

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for slability 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
ANSITYPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type		Qty	Ply	SIMQUE - LOT 57 PLL		T24044001
2802407	T05	HIP		1	1	Job Reference (optional)		
Builders FirstSource	(Jacksonville, FL),	Jacksonville, FL - 32244,				20 2021 MiTek Industries, gAycgdx-QraoiVWbHJePe		
r-1-6-0 ₁	7-11-0	15-0-0	21-2-0	27-4-0		34-5-0	42-4-0	43-10-0
1-6-0	7-11-0	7-1-0	6-2-0	6-2-0		7-1-0	7-11-0	1-6-0



	1	7-11-0	15-0-0	21-2-0	27-	4-0		34-5-0	42-4-0	
	1	7-11-0	7-1-0	6-2-0	6-2	2-0		7-1-0	7-11-0	
Plate Offse	ets (X,Y)-	[2:0-8-0,0-0-1], [3:0-3-0,0	-3-4], [4:0-6-0,0	-2-8], [6:0-6-0,0-2-8], [7:	0-3-0,0-3-4], [8:0-8	-0,0-0-1]				
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 0.76	Vert(LL)	-0.26 11-13	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC 0.89	Vert(CT)	-0.43 11-13	>999	180		
BCLL BCDL	0.0 *	Rep Stress Incr Code FBC2020/T	YES PI2014	WB 0.42 Matrix-MS	Horz(CT)	0.17 8	n/a	n/a	Weight: 232 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

1 Row at midpt

Rigid ceiling directly applied or 5-8-0 oc bracing.

3-15, 7-11

LUMBER-

REACTIONS.

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

2x4 SP No.3

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

Max Horz 2=178(LC 12) Max Uplift 2=-672(LC 12), 8=-672(LC 13) Max Grav 2=1783(LC 2), 8=1783(LC 2)

FORCES. (ib) - Max. Comp./Max. Ten. - All forces 250 (ib) or less except when shown. TOP CHORD 2-3=-3195/1116, 3-4=-2563/918, 4-5=-2439/948, 5-6=-2439/948, 6-7=-2563/918,

7-8=-3195/1117

2-16=-1034/2794, 15-16=-1034/2794, 13-15=-662/2232, 11-13=-548/2232, **BOT CHORD**

10-11=-856/2794, 8-10=-857/2794

3-16=0/304, 3-15=-673/431, 4-15=-170/599, 4-13=-234/450, 5-13=-373/291, 6-13=-234/450, 6-11=-170/599, 7-11=-673/431, 7-10=0/304

NOTES-

WEBS

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 15-0-0, Exterior(2R) 15-0-0 to 19-2-15, Interior(1) 19-2-15 to 27-4-0, Exterior(2R) 27-4-0 to 31-6-15, Interior(1) 31-6-15 to 43-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=672, 8=672.



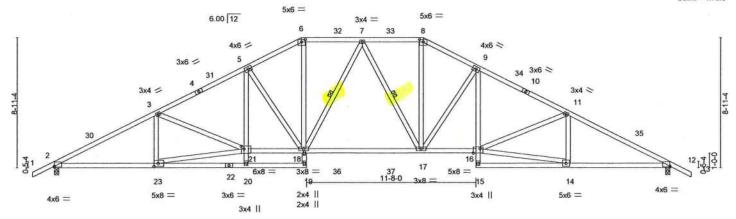
MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

May 22,2021

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20501



Job	Truss		Truss Typ	В				Qty	Ply	SIMQUE - LOT 57 PLL		T24044002
2802407	то6		Hip					1				124044002
			Lana in the			-01000000				Job Reference (optional)		
Builders FirstSource	e (Jacksonville, FL),	Jacksonville, F	FL - 32244,						8.430 s Apr	20 2021 MiTek Industries, In	c. Wed May 19 15:55	:08 2021 Page 1
	700 KONTO - 1110-011 CONTO 1110-711						ID:RGwSt4	CPRE	nm5p9yfgzN	gAycgdx-MEhZ7AXspwu7uo[07J1cmVBvQ9dtTAU9	BlznHC0DzEuHH
_C 1-6-0 ₁	7-0-0	13-4-0	- T	17-0-0	7	21-2-0	, 25-4	-0	29-0-0	35-4-0	42-4-0	43-10-0
1-6-0	7-0-0	6-4-0		3-8-0		4-2-0	4-2-	0	3-8-0	6-4-0	7-0-0	1-6-0



	T.	7-0-0	13-4-0	17-0-0	17-4-0	25-4-0		9-0-0	1	35-4-0	42-4-0	
		7-0-0	6-4-0	3-8-0	0-4-0	8-0-0		3-8-0	'	6-4-0	7-0-0	1
Plate Offse	ets (X,Y)	[2:0-0-0,0-0-11], [6:0-3-0	,0-2-0], [8:0-3-	0,0-2-0], [12:0	0-0-0,0-0-1	1], [16:0-5-12,Edge]	, [21:0-2	-4,0-2-	4], [23:0-	3-8,0-2-8]		
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.52	19	>971	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-1.02	19	>499	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.21	12	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS						Weight: 277 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

5-20,9-15: 2x4 SP No.3, 16-21: 2x4 SP M 31

WEBS 2x4 SP No.3 *Except*

21-23,14-16: 2x4 SP No.2

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

Max Horz 2=199(LC 12)

Max Uplift 2=-652(LC 12), 12=-659(LC 13) Max Grav 2=1859(LC 2), 12=1818(LC 2)

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

TOP CHORD 2-3=-3380/1086, 3-5=-3391/1068, 5-6=-2809/981, 6-7=-2490/912, 7-8=-2435/925,

8-9=-2748/995, 9-11=-3227/1101, 11-12=-3305/1100

BOT CHORD 2-23=-1038/2963, 20-21=0/314, 5-21=-183/756, 18-21=-854/2982, 17-18=-602/2514,

16-17=-750/2836, 9-16=-197/577, 12-14=-852/2895

WEBS 3-23=-328/192, 21-23=-965/2928, 5-18=-902/422, 6-18=-323/1090, 7-18=-263/217, 7-17=-330/196, 8-17=-329/1064, 9-17=-741/434, 14-16=-827/2698, 11-14=-285/178

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-8-13, Interior(1) 2-8-13 to 17-0-0, Exterior(2R) 17-0-0 to 22-11-13, Interior(1) 22-11-13 to 25-4-0, Exterior(2R) 25-4-0 to 31-3-13, Interior(1) 31-3-13 to 43-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=652, 12=659.



Structural wood sheathing directly applied or 2-9-15 oc purlins. Rigid ceiling directly applied or 2-2-0 oc bracing. Except:

10-0-0 oc bracing: 20-21

1 Row at midpt

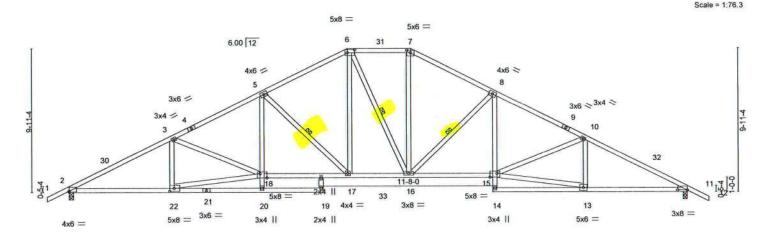
Joaquin Velez PE No.68182 MiTek USA, Inc. Fl. Cert 6634 6904 Parke East Blvd. Tampa FL 33610

May 22,2021

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss		Truss Type				Qty	Ply	SIMQUE - LOT 57 PLL		
											T24044003
2802407	T07		Hip				1	1			
ALTERNATION DESCRIPTION									Job Reference (optional)		
Builders FirstSource	e (Jacksonville, FL),	Jacksonville,	FL - 32244,					8.430 s Apr	20 2021 MiTek Industries, Inc.	Wed May 19 15:55	:09 2021 Page 1
						ID:RGw	St4cPREn	m5p9yfgzN	gAycgdx-qQFxKWYUaE0zVyo.	Isl7?2PRbo1Cyvzs	SCR1mYfzEuHG
r1-6-0 ₁	7-0-0	13-4-0	1	19-0-0	1	23-4-0		9-0-0	35-4-0	42-4-0	43-10-0
1-6-0	7-0-0	6-4-0		5-8-0		4-4-0	1	5-8-0	6-4-0	7-0-0	1-6-0



	1	7-0-0	13-4-0	17-4-0	19-0-0	23-4-0	29-0-	0	1	35-4-0	42-4-0	
	1	7-0-0	6-4-0	4-0-0	1-8-0	4-4-0	5-8-6)	1	6-4-0	7-0-0	
Plate Offse	ets (X,Y)-	[2:0-0-0,0-0-11], [6:0-6-0	,0-2-8], [7:0-3-	0,0-2-0], [11:0	0-8-0,0-0-1],	[15:0-5-12,0-3-4],	[18:0-5-	12,Edg	e], [22:0-	3-8,0-2-8]		
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.53	19	>950	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-1.04	19	>487	180	10000000	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.23	11	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	1					Weight: 273 lb	FT = 20%

BRACING-TOP CHORD

WEBS

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* BOT CHORD

5-20,8-14: 2x4 SP No.3 2x4 SP No.3 *Except* WEBS

18-22,13-15: 2x4 SP No.2

REACTIONS.

(size) 2=0-3-8, 11=0-3-8 Max Horz 2=221(LC 16)

Max Uplift 2=-647(LC 12), 11=-654(LC 13)

Max Grav 2=1848(LC 2), 11=1806(LC 2)

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

TOP CHORD

2-3=-3355/1074, 3-5=-3381/1060, 5-6=-2528/905, 6-7=-2190/870, 7-8=-2499/911,

8-10=-3213/1081, 10-11=-3277/1088

2-22=-1048/2940, 18-20=0/313, 5-18=-171/851, 17-18=-881/2985, 16-17=-531/2217, **BOT CHORD**

15-16=-743/2835, 8-15=-182/670, 11-13=-840/2870

3-22=-334/192, 18-22=-968/2987, 5-17=-1087/491, 6-17=-310/956, 7-16=-261/885,

8-16=-915/501, 13-15=-807/2751, 10-13=-291/171

NOTES-

WEBS

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-8-13, Interior(1) 2-8-13 to 19-0-0, Exterior(2E) 19-0-0 to 23-4-0, Exterior(2R) 23-4-0 to 29-1-12, Interior(1) 29-1-12 to 43-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.

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

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=647, 11=654,



Structural wood sheathing directly applied or 2-10-4 oc purlins.

5-17, 6-16, 8-16

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

10-0-0 oc bracing: 18-20

1 Row at midpt

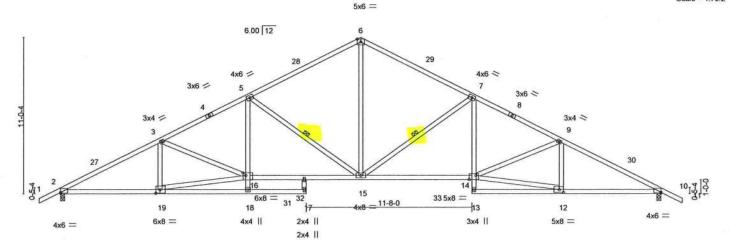
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

May 22,2021

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



Job	Truss		Truss Type			Qty P	ly	SIMQUE - LOT 57 PLL		
										T24044004
2802407	T08		Roof Special			1	1			
			The second secon					Job Reference (optional)		
Builders FirstSource (Jacksonville, FL),	Jacksonville,	FL - 32244,			8.430	s Apr 2	20 2021 MiTek Industries, Inc	. Wed May 19 15:	55:11 2021 Page 1
					ID:RGw	St4cPREn	m5p9yfg	zNgAycgdx-mpNhlCak6rHhl	Gyi 9AT7qXworull	NrwkgkWtdYzEuHE
_C 1-6-0 ₁	7-0-0	13-4-	0 ,	21-2-0	4	29-0-0		35-4-0	42-4-0	43-10-0
1-6-0	7-0-0	6-4-0)	7-10-0		7-10-0		6-4-0	7-0-0	1-6-0



	1	7-0-0	13-4-0	17-4-0	21-2-0		29-0-0		1	35-4-0	42-4-0	
		7-0-0	6-4-0	4-0-0	3-10-0		7-10-0	00-11-00-	1	6-4-0	7-0-0	
Plate Offs	sets (X,Y)-	[2:0-0-0,0-0-11], [10:0-0-	0,0-0-11], [12:0	0-3-8,0-2-8], [14:0-5-12,Edge], [16:0-2-4,0-2	-4], [19:	0-3-8,0	-3-0]			
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	-0.60	17	>847	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-1.09	17	>466	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.22	10	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS						Weight: 254 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP M 31 *Except*

1-4,8-11: 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

5-18,7-13: 2x4 SP No.3, 14-16: 2x4 SP M 31

WEBS 2x4 SP No.3 *Except*

16-19,12-14: 2x4 SP No.2

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

Max Horz 2=-244(LC 17) Max Uplift 2=-641(LC 12), 10=-648(LC 13)

Max Grav 2=1898(LC 2), 10=1844(LC 2)

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

TOP CHORD 2-3=-3457/1058, 3-5=-3529/1056, 5-6=-2391/848, 6-7=-2392/846, 7-9=-3322/1064,

9-10=-3356/1073

BOT CHORD 2-19=-1055/3030, 16-18=0/372, 5-16=-158/951, 15-16=-915/3130, 14-15=-733/2946,

7-14=-167/725, 10-12=-825/2939

WEBS 3-19=-331/188, 16-19=-958/3133, 5-15=-1312/588, 6-15=-457/1735, 7-15=-1084/597,

12-14=-776/2840, 9-12=-288/164

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-8-13, Interior(1) 2-8-13 to 21-2-0, Exterior(2R) 21-2-0 to 25-4-13, Interior(1) 25-4-13 to 43-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.

4) 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) 2=641, 10=648.



Structural wood sheathing directly applied or 2-9-3 oc purlins.

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

10-0-0 oc bracing: 16-18

1 Row at midpt

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

May 22,2021

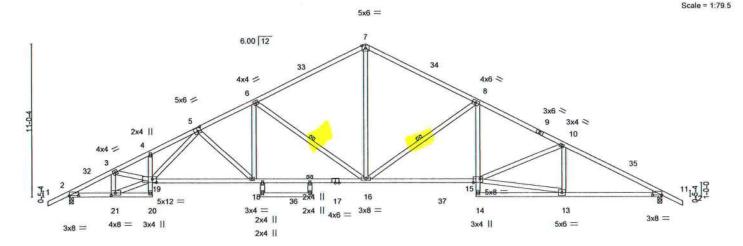
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



T2404400	QUE - LOT 57 PLL	S	Qty			ype	Truss T		Truss			
12404400	Reference (optional)	1	4			pecial	Roof Sp		T08A		2407	
	21 MiTek Industries, Inc. Wed May 19 15 rcgdx-F?x3zYaMt9PYMPXuYthif13?nEEs	Apr 20			ders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,							
2-4-0 43-10-0	35-4-0 42-4-0	1	29-0-0		21-2-0	1	13-2-4	9-3-8	5-11-8	3-1-15	r1-6-0	
7.0.0	6.4.0 7.0.0		7-10-0)	7-11-12		3.10.12	3.4.0	200	3 1 15	1460	



		1-15 5-11-8	13-2-4	13-7-8 17-4-0			9-0-0	-	35-4-0	42-4-0	
	' 3-	1-15 ' 2-9-9 '	7-2-12	0-5-4 3-8-8			-10-0		6-4-0	7-0-0	
Plate Offs	ets (X,Y)-	[2:0-8-0,0-0-1], [5:0-3-0,	0-3-0], [11:0-8	-0,0-0-1], [15:0	0-5-12,0-3-4], [1	9:0-3-8,0-3-0],	[21:0-3-8,0-2	0]			
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.95	Vert(LL)	-0.36 15-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.63 15-16	>802	180	7.500 (145-654.2)	
BCLL	0.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.24 1	n/a	n/a		
BCDL	10.0	Code FBC2020/	TPI2014	Matri	x-MS					Weight: 258 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied.

8-0-0 oc bracing: 16-18

1 Row at midpt

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

6-16, 8-16

LUMBER-

2x4 SP No.2 *Except* TOP CHORD

5-7: 2x4 SP M 31

BOT CHORD 2x4 SP No.2 *Except*

17-19,15-17: 2x4 SP M 31, 8-14,22-23: 2x4 SP No.3

WEBS 2x4 SP No.3 *Except*

19-21,13-15: 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 11=0-3-8 Max Horz 2=244(LC 12)

Max Uplift 2=-657(LC 12), 11=-657(LC 13)

Max Grav 2=1778(LC 2), 11=1778(LC 2)

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

TOP CHORD 2-3=-3219/1104, 3-4=-4637/1679, 4-5=-4724/1792, 5-6=-3157/1119, 6-7=-2224/869,

7-8=-2226/868, 8-10=-3152/1086, 10-11=-3215/1092

BOT CHORD 2-21=-1141/2827, 18-19=-1218/3290, 16-18=-953/2806, 15-16=-754/2796, 8-15=-169/723,

11-13=-842/2814

3-21=-1042/465, 19-21=-1109/2805, 3-19=-477/1352, 5-18=-659/361, 6-18=-200/769.

6-16=-1096/611, 7-16=-474/1583, 8-16=-1082/598, 13-15=-787/2724, 10-13=-278/166, 5-19=-602/1368

NOTES-

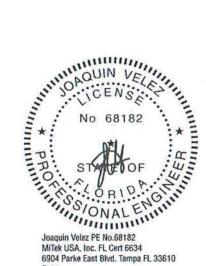
WEBS

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-8-13, Interior(1) 2-8-13 to 21-2-0, Exterior(2R) 21-2-0 to 25-4-13, Interior(1) 25-4-13 to 43-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) 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=657, 11=657.



6904 Parke East Blvd. Tampa FL 33610 Date:

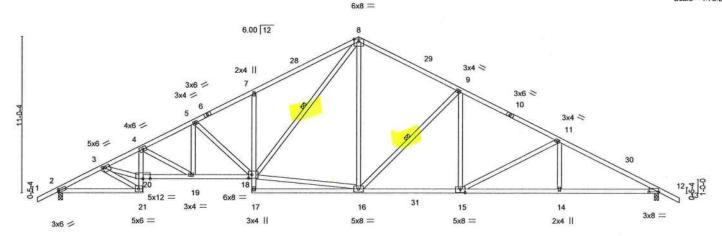
May 22,2021

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



Job	ob	Truss		Truss Type		Qty	Ply	SIMQUE - LOT 57 PLL		27720700
2802407		T08B		Roof Special		2	1			T24044006
								Job Reference (optional))	
Builders FirstSour	rce (Jacks	onville, FL),	Jacksonvi	lle, FL - 32244,			8.430 s Apr	20 2021 MiTek Industries,	Inc. Wed May 19 15:	55:14 2021 Page 1
						ID:RGwSt4cPf	REnm5p9yfg:	zNgAycgdx-BO3qOEccOm	fGcjhHfljAlS9RP2xNa	CRBMikXEtzEuHB
r1-6-0	3-1-15	5-11-8	9-6-0	13-7-8	21-2-0	28-4-0	- 1	35-4-0	42-4-0	43-10-0
1-6-0	3-1-15	2-9-9	3-6-8	4-1-8	7-6-8	7-2-0	1	7-0-0	7-0-0	1-6-0





	40	5-11-8 , 9-6-0	13-7-8	21-2-0	28-4-0	35-4-0	42-4-0	
		5-11-8 3-6-8	4-1-8	7-6-8	7-2-0	7-0-0	7-0-0	
Plate Offse	ets (X,Y)-	[2:0-0-14,0-1-8], [3:0-2-0,	0-1-8], [12:0-8-0	0-0-1], [15:0-4-0,0-3-0],	[18:0-2-12,0-3-0]			
OADING	(psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES	GRIP
CLL	20.0	Plate Grip DOL	1.25	TC 0.56	Vert(LL) -0.33 16-17	>999 240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC 0.89	Vert(CT) -0.61 16-17	>832 180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.78	Horz(CT) 0.26 12	n/a n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS		-: Northern Salterin	Weight: 265 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP M 31 *Except*

1-6,10-13: 2x4 SP No.2

2x4 SP No 2 *Except* BOT CHORD

4-21,18-20: 2x4 SP M 31, 7-17: 2x4 SP No.3

2x4 SP No.3 *Except* WEBS

3-20: 2x4 SP No.2

REACTIONS.

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

Max Horz 2=244(LC 12)

Max Uplift 2=-657(LC 12), 12=-657(LC 13)

Max Grav 2=1757(LC 2), 12=1770(LC 2)

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

2-3=-3186/1141, 3-4=-4354/1602, 4-5=-3655/1318, 5-7=-2976/1087, 7-8=-3015/1283, TOP CHORD

8-9=-1999/840, 9-11=-2640/956, 11-12=-3202/1098 2-21=-1162/2782, 20-21=-552/1404, 4-20=-202/610, 19-20=-1611/4066,

BOT CHORD 18-19=-1191/3235, 7-18=-375/373, 15-16=-607/2304, 14-15=-850/2803, 12-14=-850/2803

3-21=-2619/1130, 3-20=-1389/3459, 4-19=-948/480, 5-18=-806/386, 16-18=-394/1538,

8-18=-813/1510, 8-16=-291/716, 9-16=-840/506, 9-15=-124/550, 11-15=-572/363,

11-14=0/270, 5-19=-238/704

NOTES-

WEBS

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 3-0-1, Interior(1) 3-0-1 to 21-2-0, Exterior(2R) 21-2-0 to 25-4-13, Interior(1) 25-4-13 to 43-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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=657, 12=657.



Structural wood sheathing directly applied or 2-5-10 oc purlins.

8-18, 9-16

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

1 Row at midpt

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

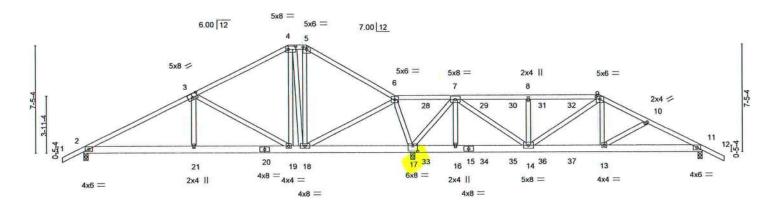
May 22,2021

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

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



Job	Truss		Truss Ty	<i>'</i> ре		Qty	Ply	SIMQUE - LOT	57 PLL			T24044007
2802407	Т09		ROOF S	PECIAL GIRDI	ER	1	1					124044007
2002-101	100		11001					Job Reference	(optional)			
Builders FirstSource (J	acksonville, FL),	Jacksonvill	e, FL - 3224	14,				20 2021 MiTek I				
						ID:RGwSt	4cPREnm5p9	yfgzNgAycgdx-7	mAaowdtw(v_r1qfnjleqtEkl	RskM23fTp0	DelizEuH9
c1-6-0 ₁	7-6-0	- r	14-0-0	15-3-2	21-3-2	25-5-2	, 30	-5-7	35-4-0	38-6-5	42-4-0	43-10-9
1-6-0	7-6-0	E.	6-6-0	1-3-2	6-0-0	4-2-0	5-	-0-5	4-10-9	3-2-5	3-9-11	1-6-0



		7-6-0	14-0-0	15-3-2	22-7-8	, 25	5-5-2	30	-5-7	35-4-0	42-4-0	
		7-6-0	6-6-0	1-3-2	7-4-6	2-	9-10	5	0-5	4-10-9	7-0-0	1
Plate Offse	ets (X,Y)-	[3:0-4-0,0-3-0], [4:0-6-0,0	-2-8], [5:0-3-0,0	-1-12], [9:0-3-0	,0-2-0], [17:0-4-	0,0-4-8]						
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.	.72	Vert(LL)	0.12	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.	.41	Vert(CT)	-0.12	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	100000000000000000000000000000000000000	.93	Horz(CT)	0.02	11	n/a	n/a	GIGUG-NE TOPENT OF ENEMADE (1991)	2000
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-M	IS						Weight: 276 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3

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

Max Horz 2=186(LC 7)

Max Uplift 2=-419(LC 27), 17=-1816(LC 9), 11=-895(LC 9) Max Grav 2=724(LC 15), 17=2937(LC 1), 11=1245(LC 20)

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

TOP CHORD 2-3=-1090/599, 3-4=-613/387, 4-5=-467/393, 5-6=-577/406, 6-7=-809/1332, 7-8=-1594/1345, 8-9=-1594/1345, 9-10=-2047/1631, 10-11=-2207/1701

7-8=-1594/1345, 8-9=-1594/1345, 9-10=-2047/1631, 10-11=-2207/1701 BOT CHORD 2-21=-565/1013, 19-21=-565/1019, 18-19=-196/558, 17-18=-994/845, 16-17=-388/319,

14-16=-388/319, 13-14=-1280/1775, 11-13=-1423/1938

WEBS 3-21=-3/333, 3-19=-663/434, 4-19=-128/272, 4-18=-423/287, 5-18=-250/264,

6-18=-684/1305, 6-17=-1100/513, 7-16=-127/290, 7-14=-1288/1736, 8-14=-580/476,

9-14=-263/175, 9-13=-442/648, 7-17=-2217/1686

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=419, 17=1816, 11=895.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 150 lb down and 138 lb up at 23-3-4, 150 lb down and 138 lb up at 25-3-4, 150 lb down and 138 lb up at 29-3-4, 150 lb down and 138 lb up at 31-3-4, and 150 lb down and 138 lb up at 33-3-4, and 282 lb down and 265 lb up at 35-4-0 on top chord, and 86 lb down and 88 lb up at 23-3-4, 86 lb down and 88 lb up at 27-3-4, 86 lb down and 88 lb up at 27-3-4, 86 lb down and 88 lb up at 27-3-4, 86 lb down and 88 lb up at 27-3-4, 86 lb down and 88 lb up at 29-3-4, 86 lb down and 88 lb up at 27-3-4, and 399 lb up at 31-3-4, and 86 lb down and 89 lb up at 35-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2



Structural wood sheathing directly applied or 3-10-15 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:

May 22,2021



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 57 PLL
2802407	Т09	ROOF SPECIAL GIRDER	1	1	T24044007
					Job Reference (optional)
Builders FirstSource	ce (Jacksonville, FL), Jack	sonville, FL - 32244,	8	.430 s Apr :	20 2021 MiTek Industries, Inc. Wed May 19 15:55:16 2021 Page 2

8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:55:16 2021 Page 2 $ID: RGwSt4cPREnm5p9yfgzNgAycgdx-7mAaowdtwOv_r1qfnjleqtEkRskM23fTp0DellzEuH9$

LOAD CASE(S) Standard

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

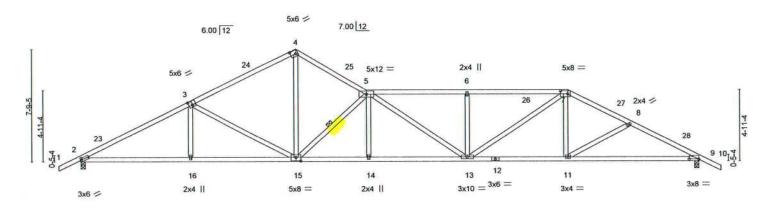
Vert: 1-4=-54, 4-5=-54, 5-6=-54, 6-9=-54, 9-12=-54, 22-25=-20

Concentrated Loads (lb)

Vert: 9=-185(B) 7=-110(B) 16=-63(B) 13=-332(B) 28=-110(B) 29=-110(B) 30=-110(B) 31=-110(B) 32=-110(B) 33=-63(B) 34=-63(B) 35=-63(B) 35=-



Job	Truss		Truss Type		Qty	Ply	SIMQUE - LOT 57	PLL		
2802407	T10		ROOF SPECIA	L	1	1	Job Reference (or	otional)		T24044008
Builders FirstSource (lacksonville, FL),	Jacksonville, F	L - 32244,				20 2021 MiTek Indu	stries, Inc. Wed May		
c1-6-0 ₁	7-6-0	100	14-8-2	19-6-9	26-5-5	termopayig.	33-4-0	37-6-0	42-4-0	43-10-0
1.6.0	7.6.0		7-2-2	4-10-7	6-10-12		6-10-11	4-2-0	4-10-0	1-6-0



	1	7-6-0	14-8-2		19-6-9	26-5-5		1	33-4	-0	42-4-0	
		7-6-0	7-2-2		4-10-7	6-10-12	2		6-10-	-11	9-0-0	1
Plate Offs	ets (X,Y)-	[2:0-0-14,0-1-8], [3:0-3-0,	0-3-4], [4:0-4-2,	0-3-0], [7:0-	6-0,0-2-8], [9	:0-8-0,0-0-1], [15:	0-4-0,0	-3-0]				
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defi	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.98	Vert(LL)	0.37	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.68	13-14	>752	180		
BCLL BCDL	0.0 *	Rep Stress Incr Code FBC2020/T	YES PI2014	WB Matrix	0.79 -MS	Horz(CT)	0.19	9	n/a	n/a	Weight: 224 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied.

1 Row at midpt

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

5-15

LUMBER-

TOP CHORD 2x4 SP No.2

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

WEBS

REACTIONS.

(size) 2=0-3-8, 9=0-3-8 Max Horz 2=179(LC 11)

Max Uplift 2=-592(LC 12), 9=-731(LC 13)

Max Grav 2=1647(LC 1), 9=1647(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2938/1067, 3-4=-2361/961, 4-5=-2402/993, 5-6=-3405/1509, 6-7=-3405/1509,

TOP CHORD 7-8=-2743/1197, 8-9=-2969/1308

2-16=-889/2551, 15-16=-890/2548, 14-15=-1221/3557, 13-14=-1219/3560, **BOT CHORD** 11-13=-863/2417, 9-11=-1059/2598

3-16=0/295, 3-15=-626/426, 4-15=-737/1876, 5-15=-2115/999, 5-13=-272/149, WEBS

6-13=-425/337, 7-13=-469/1192, 7-11=-55/362

NOTES-

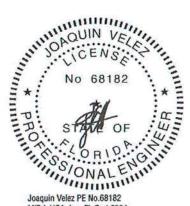
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 14-8-2, Exterior(2R) 14-8-2 to 17-8-2, Interior(1) 17-8-2 to 33-4-0, Exterior(2R) 33-4-0 to 36-4-0, Interior(1) 36-4-0 to 43-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

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

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=592, 9=731.



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

May 22,2021

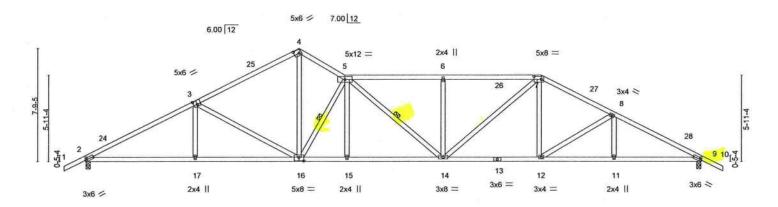
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

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



Job	Truss		Truss Type			Qty	Ply	SIMQUE - LOT 57	PLL		
											T24044009
2802407	T11		ROOF SPEC	CIAL		1	1				
	100/10/00		Technolitics when	mitter-:		100		Job Reference (op	tional)		
Builders FirstSource (J	acksonville, FL),	Jackson	ville, FL - 32244,			8.	430 s Apr 2	20 2021 MiTek Indus	stries, Inc. W	led May 19 15:55:19 2	2021 Page 1
					ID:RG	vSt4cPRE	nm5p9yfg2	NgAycgdx-XLsjRxg	DJHZIUZES	rJLSWsEF3ggFRrwV	SIv4zEuH6
r1-6-0 ₁	7-6-0	1 TW TO	14-8-2	17-10-0	24-7-0		31	4-0	36-4-4	42-4-0	43-10-0
1-6-0	7-6-0		7-2-2	3-1-14	6-9-0		6-	9-0	5-0-4	5-11-12	1-6-0

Scale = 1:76,3



		7-6-0	14-8-2	17-10-0	24-7-0	31	-4-0		36-4-4	42-4-0
		7-6-0	7-2-2	3-1-14	6-9-0	6-	9-0		5-0-4	5-11-12
Plate Offse	ets (X,Y)	[2:0-0-14,0-1-8], [3:0-3-0	,0-3-4], [4:0-4-2,	0-3-0], [7:0-6-0,0-2-8], [9:0-0-14,0-1-8], [16	6:0-4-0,0-3-0]				
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.81	Vert(LL)	0.30 14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.75	Vert(CT)	-0.56 14-15	>905	180	341.767.53.666	
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.83	Horz(CT)	0.17 9	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS					Weight: 23	35 lb FT = 20%

LUMBER-TOP CHORD BOT CHORD

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

BOT CHORD WEBS

Structural wood sheathing directly applied. Rigid ceiling directly applied or 5-10-9 oc bracing. 1 Row at midpt 5-16, 5-14

REACTIONS.

BOT CHORD

WEBS

(size) 2=0-3-8, 9=0-3-8 Max Horz 2=174(LC 16)

Max Uplift 2=-592(LC 12), 9=-731(LC 13) Max Grav 2=1647(LC 1), 9=1647(LC 1)

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

TOP CHORD 2-3=-2938/1072, 3-4=-2360/960, 4-5=-2372/1011, 5-6=-2909/1314, 6-7=-2909/1314,

7-8=-2602/1159, 8-9=-2968/1270

2-17=-889/2552, 16-17=-890/2549, 15-16=-905/2867, 14-15=-904/2869, 12-14=-782/2278, 11-12=-1015/2587, 9-11=-1015/2587

WEBS 3-17=0/297, 3-16=-625/425, 4-16=-785/1910, 5-16=-1725/837, 6-14=-420/328,

7-14=-333/823, 7-12=-112/381, 8-12=-380/275

NOTES-

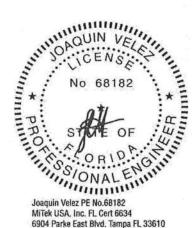
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 14-8-2, Exterior(2E) 14-8-2 to 17-10-0, Interior(1) 17-10-0 to 31-4-0, Exterior(2R) 31-4-0 to 34-4-0, Interior(1) 34-4-0 to 43-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=592, 9=731,



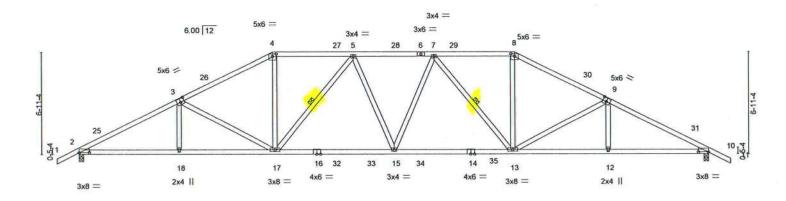
6904 Parke East Blvd. Tampa FL 33610

May 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Ansi/TPH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MO 20601



Job	Truss		Truss Type			Qty	Ply	SIMQUE - LOT 57 PLL		
										T24044010
2802407	T12		HIP			1	1			
								Job Reference (optional)		
Builders FirstSource (Jacksonville, FL),	Jacksonville, F	L - 32244,		No. of the last of	8.4	30 s Apr 2	20 2021 MiTek Industries, Inc.	Wed May 19 15:55:21	2021 Page 1
					ID:RO	SwSt4cPR	Enm5p9yf	gzNgAycgdx-Uk Tsdh?lwXH;	ojdZGLpXxxdutJajQvD	zlxO zzEuH4
r-1-6-0 ₁	6-9-1	13-0-0		18-5-8	23-10-8	1	29-4-0	35-6-15	42-4-0	43-10-0
1-6-0	6-9-1	6-2-15		5-5-8	5-5-0	1	5-5-8	6-2-15	6-9-1	1-6-0



	4	6-9-1	13-0-0		21-2-0	1	29-4-0			35-6-15	42-4-0	
		6-9-1	6-2-15		8-2-0		8-2-0		- 1	6-2-15	6-9-1	
Plate Off	sets (X,Y)	[2:0-8-0,0-0-1], [3:0-3-0,0	0-3-0], [4:0-3-0,	0-2-0], [8:0-3-0	0,0-2-0], [9:0	0-3-0,0-3-0], [10:0	-8-0,0-0-	1]				
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.31 1	5-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.54 1	5-17	>941	180		
BCLL BCDL	0.0 *	Rep Stress Incr Code FBC2020/T	YES PI2014	WB Matrix	0.54 ·MS	Horz(CT)	0.17	10	n/a	n/a	Weight: 230 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

14-16: 2x4 SP M 31

WEBS 2x4 SP No.3

REACTIONS.

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

Max Horz 2=-156(LC 13)

Max Uplift 2=-675(LC 12), 10=-675(LC 13) Max Grav 2=1786(LC 2), 10=1786(LC 2)

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

TOP CHORD 2-3=-3241/1143, 3-4=-2730/979, 4-5=-2402/938, 5-7=-2814/1012, 7-8=-2402/938,

8-9=-2730/979, 9-10=-3241/1144

BOT CHORD 2-18=-1050/2840, 17-18=-1051/2837, 15-17=-812/2741, 13-15=-780/2741,

12-13=-895/2837, 10-12=-894/2840

WEBS 3-17=-542/363, 4-17=-243/956, 5-17=-627/322, 5-15=-100/290, 7-15=-99/290,

7-13=-627/322, 8-13=-242/956, 9-13=-543/363

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-15, Interior(1) 17-2-15 to 29-4-0, Exterior(2R) 29-4-0 to 33-6-15, Interior(1) 33-6-15 to 43-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=675, 10=675.



Structural wood sheathing directly applied or 2-10-15 oc purlins.

5-17, 7-13

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

1 Row at midpt

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

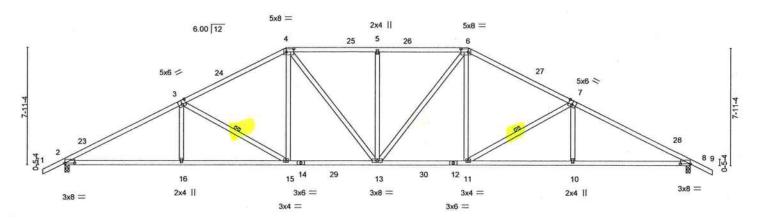
May 22,2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see __ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	T	russ Type		Qty	Ply	SIMQUE - LOT 57 PLL		
2802407	T13	н	IP		1	1			T2404401
							Job Reference (optional)		
Builders FirstSource	(Jacksonville, FL),	Jacksonville, FL	- 32244,			8.430 s Apr	20 2021 MiTek Industries,	Inc. Wed May 19 15:55:2	2 2021 Page 1
					ID:RGwSt4cPRE	nm5p9yfgzN	NgAycgdx-ywYr3zieWEf7Z	ylp7zs238UmAGgHSv?M	BygyWPzEuH3
_c -1-6-0 _t	7-11-0	1 15-	0-0	21-2-0	, 27-4-0		34-5-0	42-4-0	43-10-0
1-6-0	7-11-0	7-1	1-0	6-2-0	6-2-0		7-1-0	7-11-0	1-6-0



	1	7-11-0	15-0-0	21-2-0	27-4	4-0		34-5-0	42-4-0	- 5
		7-11-0	7-1-0	6-2-0	6-2	-0		7-1-0	7-11-0	
Plate Offse	ets (X,Y)-	[2:0-8-0,0-0-1], [3:0-3-0,0)-3-4], [4:0-6-0,0)-2-8], [6:0-6-0,0-2-8],	[7:0-3-0,0-3-4], [8:0-8-	0,0-0-1]				
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.76	Vert(LL)	-0.26 11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.89	Vert(CT)	-0.43 11-13	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.42	Horz(CT)	0.17 8	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS					Weight: 232 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

1 Row at midpt

Rigid ceiling directly applied or 5-8-0 oc bracing.

3-15, 7-11

LUMBER-

WEBS

TOP CHORD 2x4 SP No.2

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

REACTIONS.

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

Max Horz 2=178(LC 12)

Max Uplift 2=-672(LC 12), 8=-672(LC 13)

Max Grav 2=1783(LC 2), 8=1783(LC 2)

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

2-3=-3195/1116, 3-4=-2563/918, 4-5=-2439/948, 5-6=-2439/948, 6-7=-2563/918, TOP CHORD

BOT CHORD 2-16=-1034/2794, 15-16=-1034/2794, 13-15=-662/2232, 11-13=-548/2232,

10-11=-856/2794, 8-10=-857/2794

3-16=0/304, 3-15=-673/431, 4-15=-170/599, 4-13=-234/450, 5-13=-373/291, 6-13=-234/450, 6-11=-170/599, 7-11=-673/431, 7-10=0/304

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 15-0-0, Exterior(2R) 15-0-0 to 19-2-15, Interior(1) 19-2-15 to 27-4-0, Exterior(2R) 27-4-0 to 31-6-15, Interior(1) 31-6-15 to 43-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.

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

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=672, 8=672.



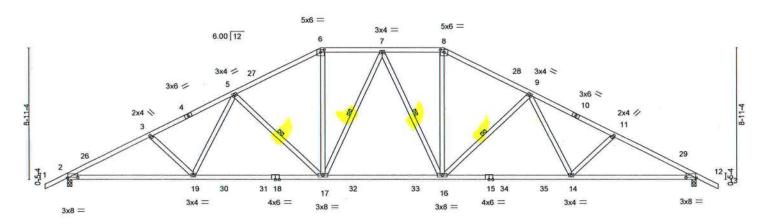
MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

May 22,2021

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



Job	Truss		Truss Type		Qty	Ply	SIMQUE - LOT 57 PLL		
									T24044012
2802407	T14		HIP		1	1			
							Job Reference (optional)		
Builders FirstSource (lacksonville, FL),	Jacksonville	, FL - 32244,		4	8.430 s Apr 2	20 2021 MiTek Industries, Inc.	Wed May 19 15:55:24	2021 Page 1
					ID:RGwSt4cP	REnm5p9yfg2	NgAycgdx-uJfcUfku2rvroFRC	FOvW9ZZAp4TwwqJff	G93aHzEuH1
-1-6-0,	5-7-8	11-3-2	17-0-0	21-2-0	25-4-0	31-	0-14 , 36-8-8	42-4-0	43-10-0
1-6-0	5-7-8	5-7-10	5-8-14	4-2-0	4-2-0	5-8	3-14 5-7-10	5-7-8	1-6-0



		8-5-6	17-0	0-0	- 1	25-4-0			33-10-1	0	42-4-0	
	4	8-5-6	8-6-	10		8-4-0			8-6-10		8-5-6	
Plate Off	sets (X,Y)-	[2:0-8-4,0-0-5], [6:0-3-0,0	0-2-0], [8:0-3-0,0	0-2-0], [12:0-	8-4,0-0-5]							
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.29	14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.49	14-16	>999	180	. NOTES OF STATE OF S	
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.13	12	n/a	n/a		
BCDL	10.0	Code FBC2020/T	P12014	Matri	x-MS	THEOREM CHARLES					Weight: 243 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

1 Row at midpt

WEBS

LUMBER-

2x4 SP No.2

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

2x4 SP No.3 WEBS

REACTIONS.

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

Max Horz 2=199(LC 16)

Max Uplift 2=-667(LC 12), 12=-667(LC 13) Max Grav 2=1810(LC 2), 12=1810(LC 2)

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

TOP CHORD 2-3=-3296/1157, 3-5=-3129/1093, 5-6=-2419/893, 6-7=-2119/851, 7-8=-2119/851,

8-9=-2419/893, 9-11=-3129/1093, 11-12=-3296/1157

BOT CHORD 2-19=-1118/2898, 17-19=-869/2531, 16-17=-552/2161, 14-16=-700/2531,

12-14=-919/2898

WEBS 3-19=-256/263, 5-19=-141/516, 5-17=-599/414, 6-17=-257/854, 7-17=-287/194,

7-16=-287/193, 8-16=-257/854, 9-16=-599/414, 9-14=-141/516, 11-14=-256/263

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 17-0-0, Exterior(2R) 17-0-0 to 21-2-0, Interior(1) 21-2-0 to 25-4-0, Exterior(2R) 25-4-0 to 29-6-15, Interior(1) 29-6-15 to 43-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=667, 12=667.



Structural wood sheathing directly applied or 3-0-6 oc purlins. Rigid ceiling directly applied or 7-4-12 oc bracing.

5-17, 7-17, 7-16, 9-16

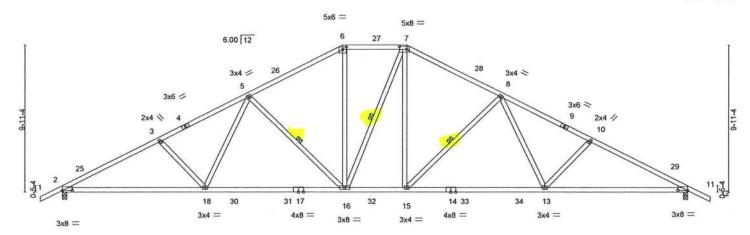
MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

May 22,2021

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



Job	Truss	Truss	Туре		Qty	Ply	SIMQUE - LOT 57 PLL		200000000
2802407	T15	PIGG	YBACK BASE		1	1			T24044013
							Job Reference (optional)		
Builders FirstSource	e (Jacksonville, FL),	Jacksonville, FL - 32	244,		8.	430 s Apr	20 2021 MiTek Industries, Inc. We	ed May 19 15:55:25	2021 Page 1
				ID:RGw	St4cPREni	m5p9yfgzt	NgAycgdx-MVD_h_kWp91iQP0Oo6	SQlhn6KeUgAfEJou	wvc7kzEuH0
r-1-6-0,	6-7-8	12-7-14	19-0-0	23-4-0	1	29-8-2	35-8-8	42-4-0	43-10-0
1-6-0	6-7-8	6-0-6	6-4-2	4-4-0	4	6-4-2	6-0-6	6-7-8	1-6-0



	7	9-8-1	1	19-0-0		23-4-0		32-7	7-15		42-4-0	4
		9-8-1	1	9-3-15		4-4-0		9-3	-15	,	9-8-1	
Plate Offse	ets (X,Y)-	[2:0-8-0,0-0-1], [6:0-3-0,0	-2-0], [7:0-6-0,	0-2-8], [11:0-	8-0,0-0-1]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.38 1	3-15	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.65 1	3-15	>784	180	10000000000	
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.13	11	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix	k-MS	1/25/2004/00/00					Weight: 240 lb	FT = 20%

BRACING-

WEBS

TOP CHORD **BOT CHORD**

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD

2x4 SP M 31 *Except*

14-17: 2x4 SP No.2

2x4 SP No.3

WEBS

REACTIONS.

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

Max Horz 2=-221(LC 17) Max Uplift 2=-663(LC 12), 11=-663(LC 13) Max Grav 2=1810(LC 2), 11=1811(LC 2)

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

TOP CHORD 2-3=-3256/1125, 3-5=-3066/1063, 5-6=-2237/861, 6-7=-1948/827, 7-8=-2239/861,

8-10=-3070/1064, 10-11=-3259/1125

BOT CHORD 2-18=-1098/2857, 16-18=-821/2430, 15-16=-438/1950, 13-15=-658/2433, 11-13=-878/2860

WEBS 3-18=-302/300, 5-18=-176/631, 5-16=-698/461, 6-16=-241/752, 7-15=-286/760,

8-15=-699/462, 8-13=-176/632, 10-13=-302/300

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 19-0-0, Exterior(2E) 19-0-0 to 23-4-0, Exterior(2R) 23-4-0 to 27-6-15, Interior(1) 27-6-15 to 43-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=663, 11=663.



Structural wood sheathing directly applied or 2-11-9 oc purlins.

5-16, 7-16, 8-15

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

1 Row at midpt

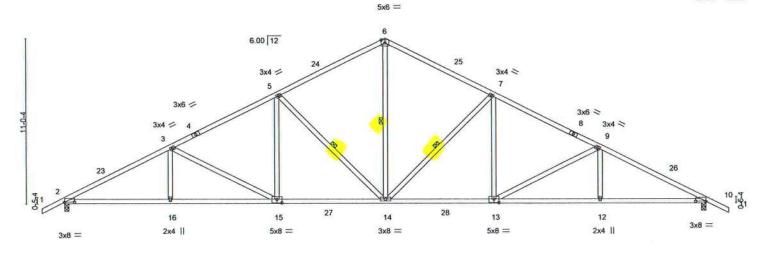
MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

May 22,2021

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



	Job	Truss	Truss Type		Qty	Ply	SIMQUE - LOT 57 PLL		
ı									T24044014
ı	2802407	T16	Common		6	1			
1		and the second second second second	111-12 1-12-12-12-12-12-12-12-12-12-12-12-12-12				Job Reference (optional)		
	Builders FirstSource (Jacks	onville, FL). Jackson	ville, FL - 32244.		8.4	30 s Apr 2	20 2021 MiTek Industries, Inc.	Wed May 19 15:55:27 20	21 Page 1
		The Indian Company of the Company of		ID:RGwSt4c	PREnm5p	9yfgzNgA	ycgdx-luLk6gmmLmIQfjAmwW	SDmCBeFHM676K5LEC)jBczEuH_
	1-1-6-0, 7-0	-0	14-0-0	21-2-0	28-4-0		35-4-0	42-4-0	43-10-9
	1-6-0 7-0	-0	7-0-0	7-2-0	7-2-0		7-0-0	7-0-0	1-6-0



	1	7-0-0	14-0-0	21-2-) ,	28-4-0	- 1	35-4-0	42-4	-0
		7-0-0	7-0-0	7-2-0		7-2-0		7-0-0	7-0-	0
Plate Offse	ets (X,Y)-	[2:0-8-0,0-0-1], [10:0-8-0	,0-0-1], [13:0-4-	-0,0-3-0], [15:0-4-0,0	-3-0]					
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (le	oc) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.61	Vert(LL)	-0.29 14-	15 >999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.91	Vert(CT)	-0.49 14-	15 >999	180	00000000	
BCLL BCDL	0.0	Rep Stress Incr Code FBC2020/T	YES PI2014	WB 0.67 Matrix-MS	Horz(CT)	0.18	10 n/a	n/a	Weight: 236 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

WEBS

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

1 Row at midpt

Structural wood sheathing directly applied or 2-11-8 oc purlins.

6-14, 7-14, 5-14

LUMBER-

REACTIONS.

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

BOT CHORD 2x4 SP No.3 WEBS

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

Max Horz 2=244(LC 12) Max Uplift 2=-657(LC 12), 10=-657(LC 13)

Max Grav 2=1788(LC 2), 10=1788(LC 2)

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

TOP CHORD 2-3=-3241/1098, 3-5=-2681/956, 5-6=-2030/837, 6-7=-2030/837, 7-9=-2681/956,

BOT CHORD 2-16=-1093/2839, 15-16=-1093/2839, 14-15=-771/2341, 13-14=-606/2341,

12-13=-851/2839, 10-12=-851/2839

6-14=-479/1459, 7-14=-847/506, 7-13=-124/555, 9-13=-570/364, 9-12=0/268, **WEBS**

5-14=-847/506, 5-15=-123/555, 3-15=-570/363, 3-16=0/268

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-8-13, Interior(1) 2-8-13 to 21-2-0, Exterior(2R) 21-2-0 to 25-4-13, Interior(1) 25-4-13 to 43-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) 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=657, 10=657.



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

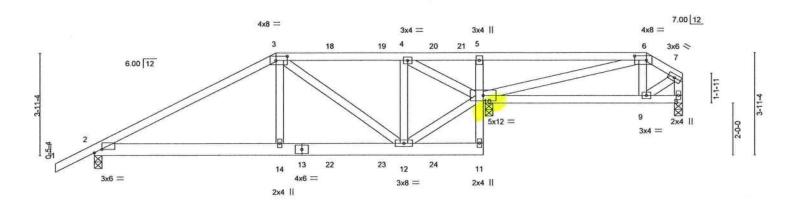
May 22,2021

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



Job	Truss	Truss Type		Qty	Ply	SIMQUE - LOT 57 PLL		
		V SAC SALES AND ASSESSED.				The second secon	T2404	4015
2802407	T17	Hip Girder		1	1	CONTRACTOR CONTRACTOR CONTRACTOR		
	10000	(A)				Job Reference (optional)		
Builders FirstSource	(Jacksonville, FL), Jackson	onville, FL - 32244,		8.	430 s Apr :	20 2021 MiTek Industries, Inc. Wed	May 19 15:55:29 2021 Page	1
			II	:RGwSt4cPREnm	5p9yfgzNg/	Aycgdx-FGTVXMn1sNY8v1K91xUh	sdG n5A2b4WOoYtqFVzEuGy	У
, -1-6-0	7-0-0		11-11-0	14-11-	3 .	21-3-2	22-7-8	S
1-6-0	7-0-0		4-11-0	3-0-8		6-3-10	1-4-6	

Scale = 1:42.7



	4.77	7-0-0		1	11-11-0		14-11-8	15-4	rO	21-3-2	, 22	-7-8
	-	7-0-0			4-11-0		3-0-8	0-4	8	5-11-2	1-	4-6
Plate Offs	ets (X,Y)-	[2:0-3-7,0-1-8], [3:0-5-4,0	-2-0], [6:0-5-8,	0-2-0]								
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	0.06	14-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.08	9-10	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-	MS						Weight: 130 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

2x6 SP No.2 *Except* **BOT CHORD**

5-11: 2x4 SP No.3, 8-10: 2x4 SP No.2

WEBS 2x4 SP No.3

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

Max Horz 2=186(LC 8)

Max Uplift 2=-645(LC 8), 8=-204(LC 23), 10=-1303(LC 5) Max Grav 2=962(LC 1), 8=223(LC 20), 10=1700(LC 1)

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

TOP CHORD 2-3=-1495/1084, 3-4=-748/613, 7-8=-252/234

BOT CHORD 2-14=-1011/1265, 12-14=-1028/1288, 5-10=-404/319 WEBS

3-14=-418/660, 3-12=-667/538, 4-12=-69/259, 10-12=-702/893, 4-10=-1116/905,

6-10=-369/286, 7-9=-265/282

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=645, 8=204, 10=1303.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 129 lb down and 138 lb up at 7-0-0, 110 lb down and 138 lb up at 9-0-12, 110 lb down and 138 lb up at 11-0-12, and 110 lb down and 138 lb up at 13-0-12, and 110 lb down and 136 lb up at 14-10-12 on top chord, and 332 lb down and 399 lb up at 7-0-0, 86 lb down and 88 lb up at 9-0-12, 86 lb down and 88 lb up at 11-0-12, and 86 lb down and 88 lb up at 13-0-12, and 86 lb down and 88 lb up at 14-9-12 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).

LOAD CASE(S) Standard

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

Vert: 1-3=-54, 3-6=-54, 6-7=-54, 11-15=-20, 8-10=-20



Structural wood sheathing directly applied or 4-0-15 oc purlins,

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

except end verticals.

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

May 22,2021

Continued on page 2

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see
ANS/TP/11 Quality Criteria, DSB-89 and BCSI Building Composately Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 57 PLL	
2802407	T17	Hip Girder	1	1		T24044015
2002 101	2.25	1.0F 20030	At a second	1 3	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:55:29 2021 Page 2 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-FGTVXMn1sNY8v1K91xUhsdG_n5A2b4W0oYtqFVzEuGy

LOAD CASE(S) Standard

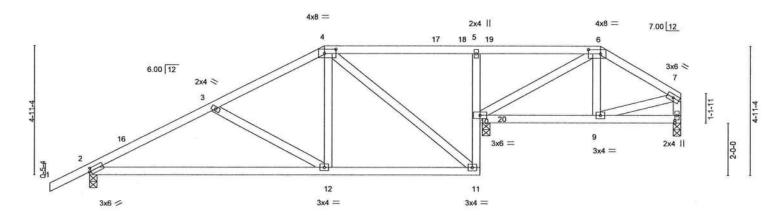
Concentrated Loads (lb)

Vert: 3=-110(B) 11=-63(B) 5=-110(B) 14=-332(B) 18=-110(B) 19=-110(B) 20=-110(B) 22=-63(B) 23=-63(B) 24=-63(B)



Jo	bb	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 57 PLL		T24044016
28	802407	T18	Hip	1	1			124044010
						Job Reference (optional)		
- 1	Builders FirstSourc	e (Jacksonville, FL),	Jacksonville, FL - 32244,	8.4	430 s Apr 2	20 2021 MiTek Industries, Inc	c. Wed May 19 15:55:30	2021 Page 1
				ID:RGwSt4cPR	Enm5p9yfg	gzNgAycgdx-jT0tliofdhg?XAv	Lbf?wOqpDAVTKKVvX10	CcNnxzEuGx
	-1-6-0	4-10-0	9-0-0	14-11-8	î.	19-6-9	22-7-8	1
	1-6-0	4-10-0	4-2-0	5-11-8		4-7-1	3-0-15	E.

Scale = 1:42.5



	1		0-0		-	14-11-8		15-4		19-6-9	22-7-8		
		9-	0-0			5-11-8		0-4	1-8	4-2-9	3-0-15		
Plate Offs	ets (X,Y)-	[2:0-0-14,0-1-8], [4:0-5-4,	,0-2-0], [6:0-5-8	3,0-2-0]									
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	0.38	Vert(LL)	-0.13	12-15	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.27	12-15	>653	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.01	8	n/a	n/a			
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-MS	100000000000000000000000000000000000000				303900	Weight: 119 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

5-11: 2x4 SP No.3

WEBS 2x4 SP No.3

VEBS 2X4 SF NO.5

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

Max Horz 2=208(LC 12)

Max Uplift 2=-284(LC 12), 10=-467(LC 9), 8=-156(LC 8) Max Grav 2=617(LC 23), 10=876(LC 1), 8=254(LC 24)

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

TOP CHORD 2-3=-778/360, 3-4=-517/229, 6-7=-253/407, 7-8=-231/339

BOT CHORD 2-12=-428/669, 11-12=-203/420, 10-11=-159/381, 5-10=-337/258, 9-10=-317/188

WEBS 3-12=-296/260, 4-12=-78/404, 4-11=-551/274, 6-10=-238/387, 6-9=-253/137,

7-9=-270/162

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 19-6-9, Exterior(2E) 19-6-9 to 22-5-12 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=284, 10=467, 8=156.



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

Rigid ceiling directly applied or 9-0-0 oc bracing.

except end verticals.

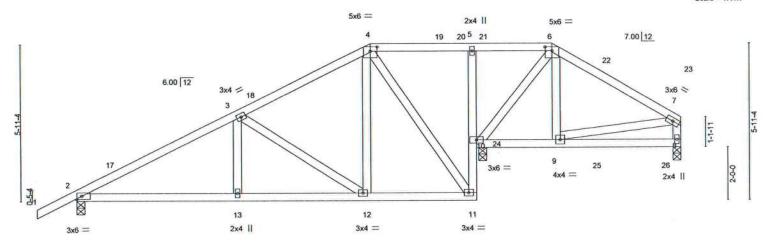
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

May 22,2021



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 57 P	LL	
1000		15,771		25			T24044017
2802407	T19	Hip	1	1			
					Job Reference (option	onal)	
Builders FirstSource	(Jacksonville, FL), Jackson	ville, FL - 32244,	8	.430 s Apr 2	20 2021 MiTek Industr	ries, Inc. Wed May 19 15:55:3	1 2021 Page 1
	• ************************************	**************************************	ID:RGwSt4cPREnm	5p9yfgzNgA	ycgdx-BfaFy2pHO?o	s8KUY9MX9x2MPAvsC3_xhG	sMwJNzEuGw
-1-6-0	6-0-0	11-0-0	14-11-8		17-10-0	22-7-8	
1.6.0	6-0-0	5-0-0	3-11-8	1	2-10-8	4-9-8	-

Scale = 1:41.7



T.	6-0-0	4	11-0-0	14-11-8	15-41			22-1-0	
-	6-0-0		5-0-0	3-11-8	0-4-8	2-6	-0	4-9-8	
Plate Offsets (X,Y)-	[4:0-3-0,0-2-0], [6:0-3-0,0	-1-12]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.30	Vert(LL) 0.0	4 13-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.32	Vert(CT) -0.0	7 13-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.44	Horz(CT) 0.0	0 2	n/a	n/a		
BCDL 10.0	Code FBC2020/TI	PI2014	Matrix-MS					Weight: 130 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

5-11: 2x4 SP No.3

WEBS 2x4 SP No.3

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

Max Horz 2=229(LC 12)

Max Uplift 2=-286(LC 12), 10=-388(LC 9), 8=-158(LC 8) Max Grav 2=624(LC 23), 10=855(LC 1), 8=269(LC 24)

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

2-3=-804/327, 3-4=-378/199, 6-7=-234/340, 7-8=-226/279 TOP CHORD 2-13=-405/664, 12-13=-405/664, 11-12=-138/266, 10-11=-210/443 BOT CHORD

3-12=-463/314, 4-12=-139/363, 4-11=-494/264, 6-10=-246/356, 6-9=-299/163 WEBS

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 17-10-0, Exterior(2R) 17-10-0 to 22-0-15, Interior(1) 22-0-15 to 22-5-12 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=286, 10=388, 8=158.



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

Rigid ceiling directly applied or 9-1-5 oc bracing.

except end verticals.

6904 Parke East Blvd. Tampa FL 33610

May 22,2021

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



Job Truss Truss Type Qty Ply SIMQUE - LOT 57 PLL T24044018 2802407 T20 Hip Job Reference (optional) Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:55:32 2021 Page 1 ID:RGwSt4cPREnm5p9yfgzNgAycgdx-fr8d9Oqv9lwjmU3kj42OTFuYrlBgoPYqVW5UrqzEuGv 14-11-8 | 16-1-7 | 1-6-0 Scale = 1:43.9 5x6 = 2x4 || 5x6 = 5 6.00 12 7.00 12 23 22 5x6 < 24 5x6 > 3 25 26 4x12 || 4x6 || 2x4 || 13 12 11 2x4 || 3x6 = 3x4 = 4x4 = 6-3-13 Plate Offsets (X,Y)--[3:0-3-0,0-3-0], [4:0-3-0,0-2-0], [6:0-4-0,0-2-4] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP in (loc) I/defl L/d

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.11 9-16

-0.03

-0.09 13-20

10

>873

>999

n/a

240

180

n/a

Rigid ceiling directly applied or 8-9-2 oc bracing.

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

LUMBER-

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2

20.0

7.0

0.0

10.0

BOT CHORD 2x4 SP No.2 *Except*

5-11: 2x4 SP No.3

WEBS 2x4 SP No.3

SLIDER Right 2x8 SP 2400F 2.0E -t 1-11-8

REACTIONS.

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

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

Max Horz 2=248(LC 12)

Max Uplift 8=-224(LC 13), 2=-299(LC 12), 10=-298(LC 9) Max Grav 8=333(LC 24), 2=654(LC 1), 10=773(LC 1)

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

TOP CHORD 2-3=-844/393, 3-4=-302/274, 4-5=-106/255, 5-6=-109/264, 6-8=-242/434
BOT CHORD 2-13=-429/693, 12-13=-430/688, 10-11=-282/520, 9-10=-261/171, 8-9=-2

BOT CHORD 2-13=-429/693, 12-13=-430/688, 10-11=-282/520, 9-10=-261/171, 8-9=-279/178 WEBS 3-13=0/280, 3-12=-575/387, 4-12=-144/391, 4-11=-528/275, 6-10=-407/633,

1.25

1.25

YES

TC

BC

WB

Matrix-MS

0.43

0.44

0.55

6-9=-562/275

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 13-0-0, Exterior(2E) 13-0-0 to 16-1-7, Exterior(2R) 16-1-7 to 20-4-5, Interior(1) 20-4-5 to 22-7-8 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=224, 2=299, 10=298.



244/190

FT = 20%

MT20

Weight: 137 lb

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

May 22,2021

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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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

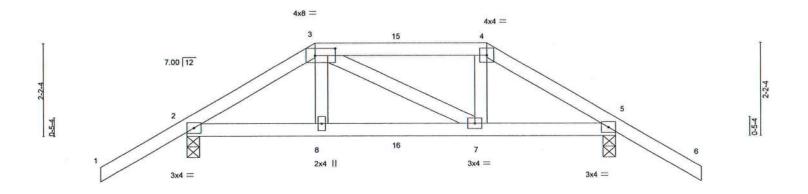
ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd. Tampa, FL 36610

SIMQUE - LOT 57 PLL Job Truss Type Qty Ply Truss T24044019 2802407 T21 HIP GIRDER Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:55:33 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGwSt4cPREnm5p9yfgzNgAycgdx-72i0NkrXwc2aOeewGnZd0TRl4iaOXzM_jAr1OGzEuGu 12-0-0 7-0-0 10-0-0 2-0-0

Scale = 1:26.0



		1	3-0-0			7-0-0 4-0-0		+		10-0-0 3-0-0		
Plate Offse	ts (X,Y)-	[3:0-5-8,0-2-0]										
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	0.27	Vert(LL)	0.03	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	-0.02	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.06	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	987. 1.76					Weight: 49 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

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

2x4 SP No.3 WEBS

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

Max Horz 2=-94(LC 6) Max Uplift 2=-342(LC 5), 5=-343(LC 9)

Max Grav 2=521(LC 19), 5=521(LC 20)

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

TOP CHORD 2-3=-554/489, 3-4=-454/441, 4-5=-554/488

BOT CHORD 2-8=-428/519, 7-8=-433/526, 5-7=-406/504

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=342, 5=343,
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 133 lb down and 143 lb up at 3-0-0, and 93 lb down and 49 lb up at 4-11-4, and 133 lb down and 143 lb up at 7-0-0 on top chord, and 144 lb down and 48 lb up at 3-0-0, and 53 lb down at 4-11-4, and 144 lb down and 48 lb up at 6-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

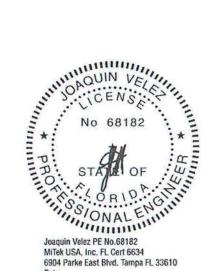
LOAD CASE(S) Standard

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

Vert: 1-3=-54, 3-4=-54, 4-6=-54, 9-12=-20

Concentrated Loads (lb)

Vert: 3=-15(F) 4=-15(F) 8=-17(F) 7=-17(F) 15=-6(F) 16=-8(F)



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

Rigid ceiling directly applied or 8-11-0 oc bracing.

6904 Parke East Blvd. Tampa FL 33610 Date

May 22,2021

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



Job Qty SIMQUE - LOT 57 PLL Truss Truss Type Ply T24044020 2802407 T22 COMMON Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15:55:34 2021 Page 1 Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, ID:RGwSt4cPREnm5p9yfgzNgAycgdx-bEGOa3r9hwAQ?oC7qV4sZg_vB6umGPx7ypaawizEuGt 10-0-0 4x4 = Scale = 1:24.5 3 7.00 12 42x4 || 0-5-4 0-5-4 \bigotimes 7 3x4 = 2x4 || 2x4 II 10-0-0 Plate Offsets (X,Y)--[2:0-0-15,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. l/defl **PLATES** GRIP (loc) L/d TCLL 20.0 Plate Grip DOL 1.25 TC 0.38 Vert(LL) 0.08 7-13 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.33 Vert(CT) 0.07 7-13 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.11 Horz(CT) -0.01 2 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

BCDL 10.0

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

WEBS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=117(LC 9)

Max Uplift 2=-202(LC 12), 6=-158(LC 13) Max Grav 2=433(LC 1), 6=415(LC 1)

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

Code FBC2020/TPI2014

TOP CHORD 2-3=-306/468, 3-4=-302/509, 4-5=-194/315 BOT CHORD 2-7=-307/205, 6-7=-307/205, 5-6=-307/205

WEBS 3-7=-306/151, 4-6=-264/354

NOTES-

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

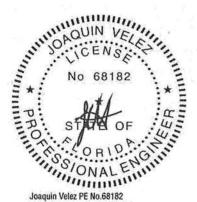
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 5-0-0, Exterior(2R) 5-0-0 to 8-0-0, Interior(1) 8-0-0 to 10-0-0 zone; cantilever right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MS

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

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

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=202, 6=158.



Weight: 41 lb

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

Rigid ceiling directly applied or 9-5-5 oc bracing.

FT = 20%

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

May 22,2021

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Truss Type Qty Ply SIMQUE - LOT 57 PLL Job Truss T24044021 2802407 T23 COMMON Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Wed May 19 15;55:35 2021 Page 1 Jacksonville, FL - 32244, Builders FirstSource (Jacksonville, FL). ID:RGwSt4cPREnm5p9yfgzNgAycgdx-3QqmoPsnSDIHdynJOCb55uW4GWFr?sFGBTK8S9zEuGs 2-0-0 5-0-0 8-9-8 4x4 = Scale = 1:24.5 7.00 12 3x6 < 0-5-4 6 4x4 = 3x6 II 3x4 / Plate Offsets (X,Y)-[2:0-0-15,0-1-8] LOADING (psf) PLATES GRIP SPACING-2-0-0 CSI DEFL (loc) I/defl L/d MT20 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.36 Vert(LL) 0.05 6-9 >999 240 >999 TCDL 7.0 Lumber DOL 1 25 BC 0.28 Vert(CT) 0.05 6-9 180 BCLL 0.0 Rep Stress Incr YES WB 0.10 Horz(CT) -0.002 n/a n/a FT = 20% Code FBC2020/TPI2014 Weight: 42 lb BCDL 10.0 Matrix-MS LUMBER-BRACING-Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD 2x4 SP No.2 TOP CHORD 2x4 SP No.2 **BOT CHORD** except end verticals. **BOT CHORD** Rigid ceiling directly applied or 8-4-7 oc bracing.

2x4 SP No.3 WEBS

REACTIONS.

(size) 2=0-3-8, 5=0-3-8

Max Horz 2=135(LC 12)

Max Uplift 2=-202(LC 12), 5=-108(LC 13) Max Grav 2=440(LC 1), 5=307(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-342/559, 3-4=-322/576, 4-5=-280/465

TOP CHORD 2-6=-430/238 **BOT CHORD**

3-6=-324/155, 4-6=-365/199 WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 5-0-0, Exterior(2R) 5-0-0 to 8-0-0, Interior(1) 8-0-0 to 8-7-12 zone; cantilever left exposed; 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads,
- * 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=202, 5=108.



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

May 22,2021

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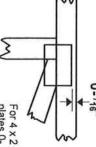


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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0

S

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

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

PLATE SIZE

4 × 4

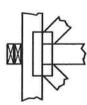
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards: ANSI/TPI1: National I

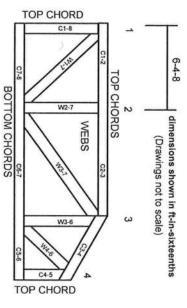
National Design Specification for Metal
Plate Connected Wood Truss Construction.
Design Standard for Bracing.
Ruilding Component Safety Information

DSB-89:

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. 5/19/2020

General Safety Notes

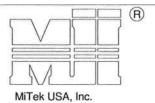
Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer, For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
 The design does not take into account any dynamic or other loads other than those expressly stated.

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

MII-T-BRACE 2

MiTek USA, Inc. Page 1 of 1



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

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

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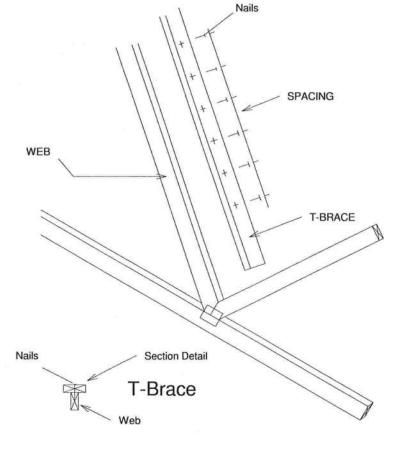
1	Nailing Pattern	
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.

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

	1000 5000 5000	e Size -Ply Truss
		Continuous iteral Bracing
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

	- CATTER OF THE PARTY OF THE PA	e Size -Ply Truss
	Specified Rows of La	Continuous iteral Bracing
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

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





I-Brace



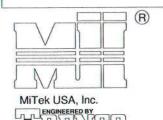
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

SCAB-BRACE DETAIL

MII-SCAB-BRACE

MiTek USA, Inc.

Page 1 of 1

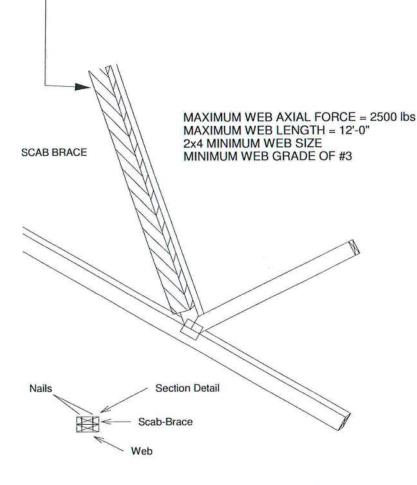


Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.

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

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

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



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



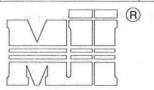
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)

MII-REP05

February 12, 2018

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MiTek USA, Inc.



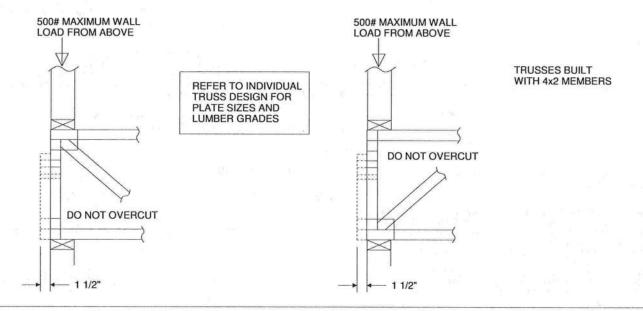
- 1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
- 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

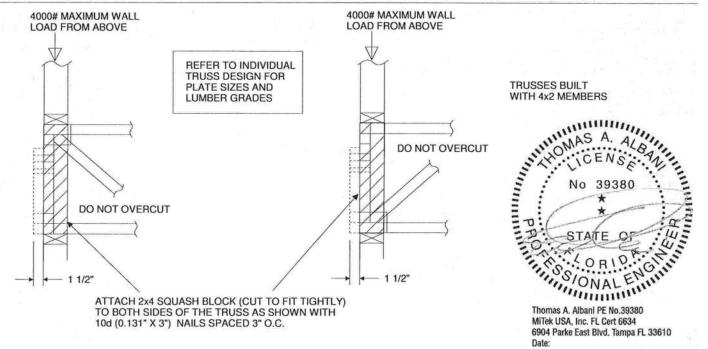
 3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE
- SUCH AS TO AVOID SPLITTING OF THE WOOD.

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

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

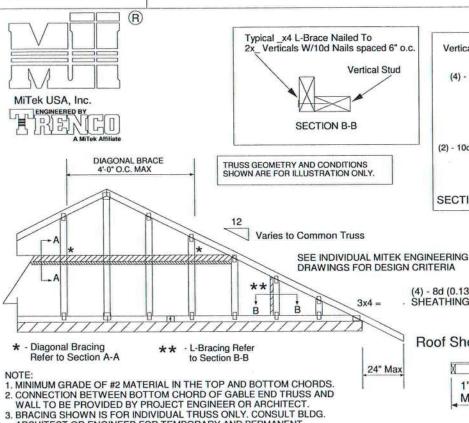
 6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.





Standard Gable End Detail

MII-GE130-D-SP



Page 1 of 2 MiTek USA, Inc. DIAGONAL 16d Nails Spaced 6" o.c. 2x6 Stud or 2x4 No.2 of better

> Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-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" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing 1'-3"

Vertical Stud

(4) - 16d Nails

(2) - 10d Nails into 2x6

SECTION A-A

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

Diag. Brace at 1/3 points if needed

End Wall

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

Trusses @ 24" o.c.

HORIZONTAL BRACE (SEE SECTION A-A)

ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
"L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB

OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.

5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.

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

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

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



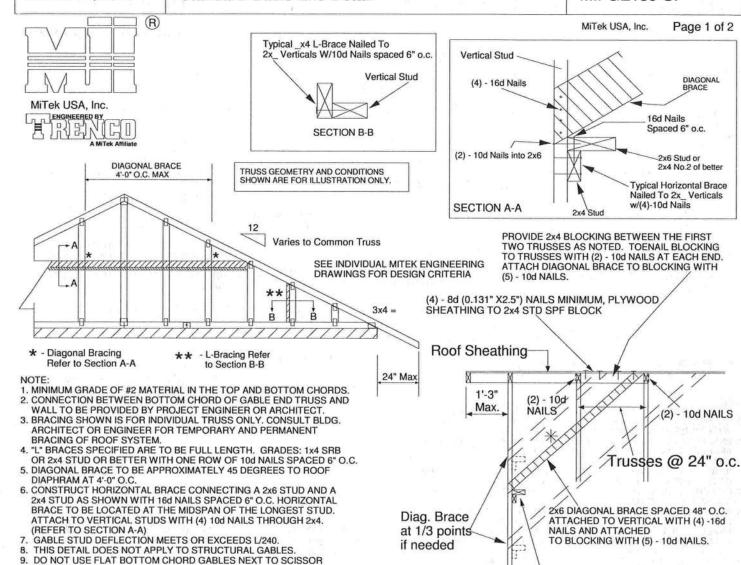
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

Standard Gable End Detail

MII-GE130-SP

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DIAGONAL



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

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

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

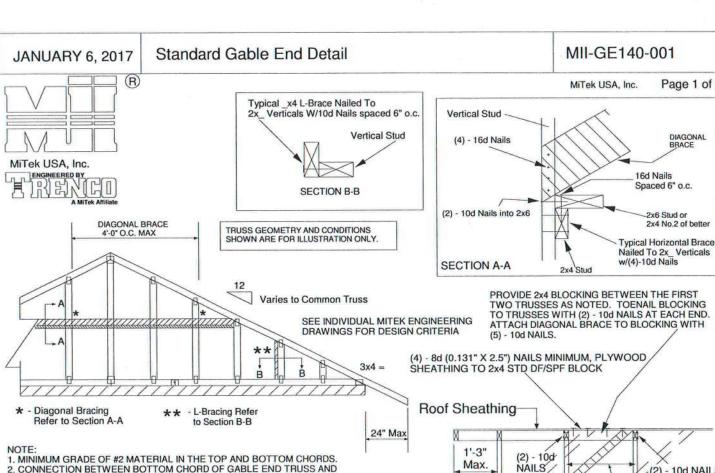
MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH ASCE 7-10 160 MPH **DURATION OF LOAD INCREASE: 1.60**

TYPE TRUSSES.

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

End Wall





Diag. Brace

at 1/3 points

End Wall

if needed

2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND

WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.

"L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.

5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

DIAPHRAM AT 4'-0" O.C.

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

7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.

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

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			Maximui	n Stud Le	ngth	
2x4 DF/SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4
2x4 DF/SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11
2x4 DF/SPF Std/Stud	24" O.C.	2-8-9	2-9-8	3-11-7	5-5-2	8-1-12

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

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

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



Page 1 of 2

DIAGONAL BRACE

2x6 Stud or

2x4 No.2 of better

(2) - 10d NAILS

Trusses @ 24" o.c.

2x6 DIAGONAL BRACE SPACED 48" O.C.

ATTACHED TO VERTICAL WITH (4) -16d

HORIZONTAL BRACE

(SEE SECTION A-A)

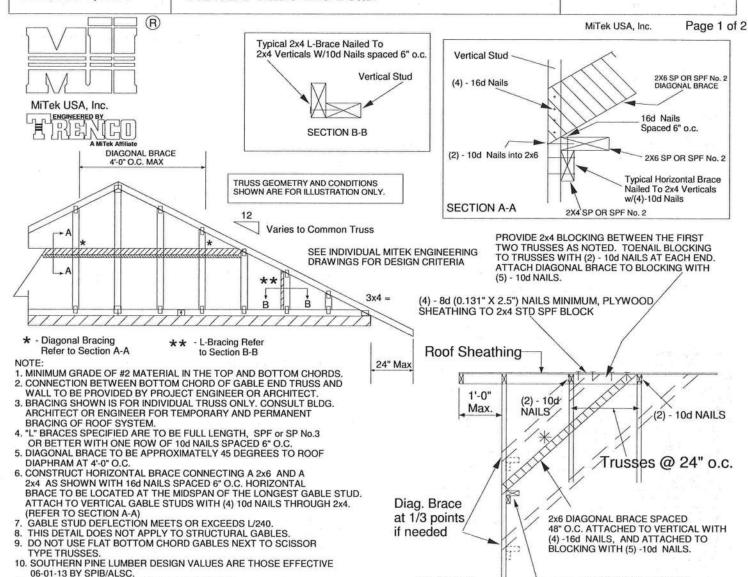
TO BLOCKING WITH (5) - 10d NAILS.

NAILS AND ATTACHED

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

Standard Gable End Detail

MII-GE170-D-SP



End Wall

Minimum Stud Size	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
Species and Grade			Maximum St	ud Length	
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 10d ARE (0.131" X 3") AND

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.



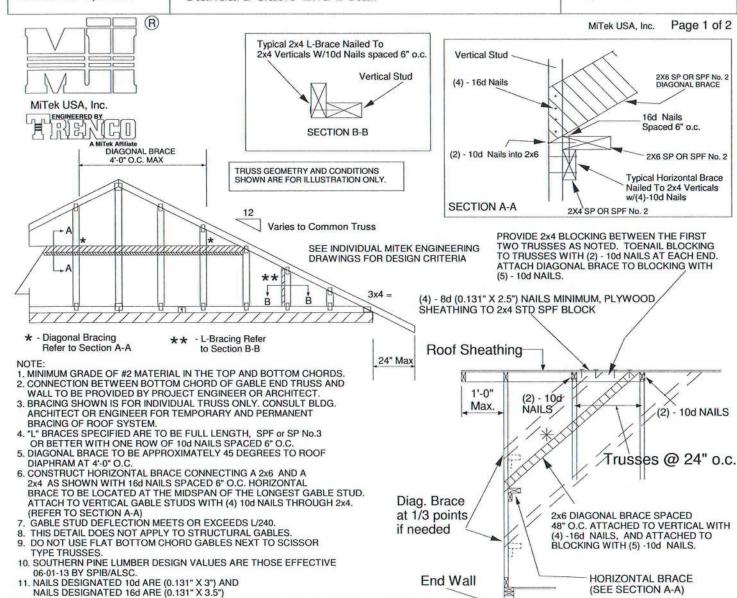
HORIZONTAL BRACE

(SEE SECTION A-A)

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

Standard Gable End Detail

MII-GE180-D-SP



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

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

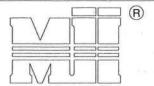
MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D ASCE 7-10 180 MPH DURATION OF LOAD INCREASE : 1.60

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



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

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc.

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

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

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

A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) (0.131" X 3.5") TOE-NAILED.

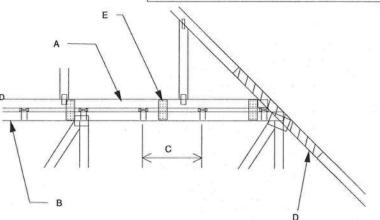
B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.

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, CENTEREDON INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND: DIRECTIONS AND:

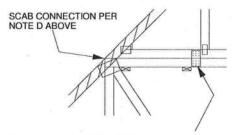
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR 2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM

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

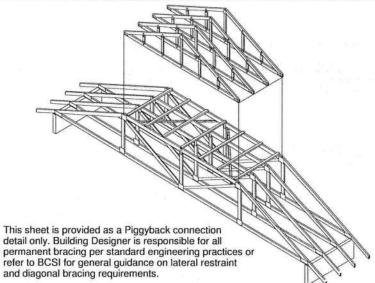


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

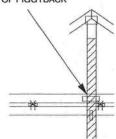
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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



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



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

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

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

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

FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.

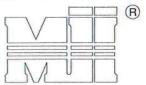
CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.



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

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT 7-10



MiTek USA, Inc.



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

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

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

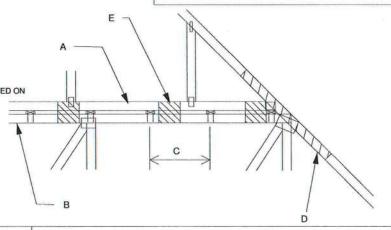
2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 IC.

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)

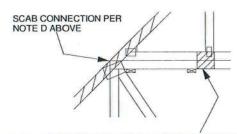


TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

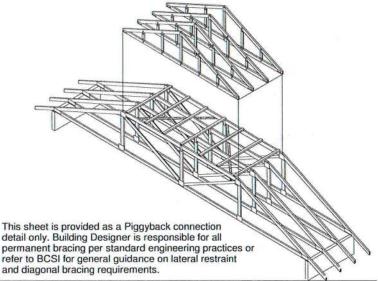


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

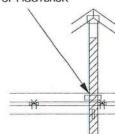
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



" 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:

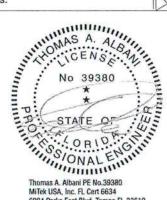
VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL

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

MII-REP01A1

MiTek USA, Inc.

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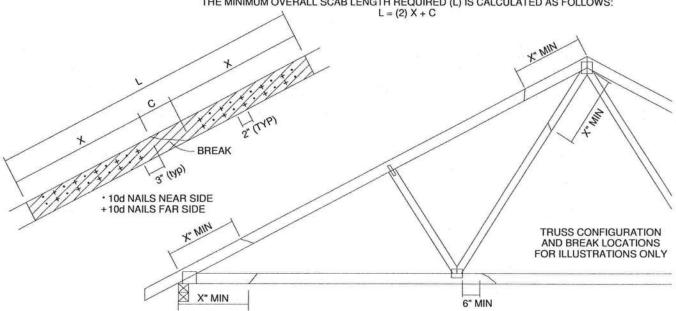


TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *				MAX	IMUM FO	RCE (lbs)	15% LOA	D DURAT	ION	
		X INCHES	S	P	ι)F	s	PF	Н	F
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125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

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

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



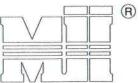
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP

MiTek USA, Inc.

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ITEK USA, ... MiTek USA, Inc.

NOTES:

- 1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.
 THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
 ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

> SIDE VIEW (2x3) 2 NAILS

> > NEAR SIDE NEAR SIDE

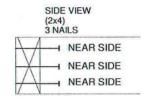
	DIAM.	SP	DF	HF	SPF	SPF-S
LONG	.131	88.0	80.6	69.9	68.4	59.7
	.135	93.5	85.6	74.2	72.6	63.4
3.5"L	.162	108.8	99.6	86.4	84.5	73.8
3.25" LONG	.128	74.2	67.9	58.9	57.6	50.3
	.131	75.9	69.5	60.3	59.0	51.1
	.148	81.4	74.5	64.6	63.2	52.5

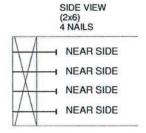
VALUES SHOWN ARE CAPACITY PER TOE-NAIL APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

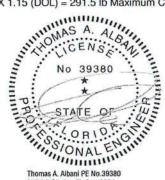
(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:

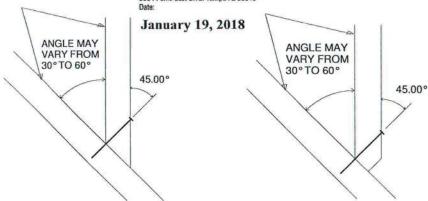
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

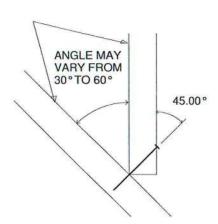






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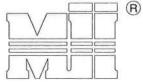


TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

MiTek USA, Inc.

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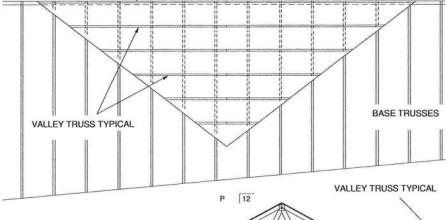


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GABLE END, COMMON TRUSS OR GIRDER TRUSS

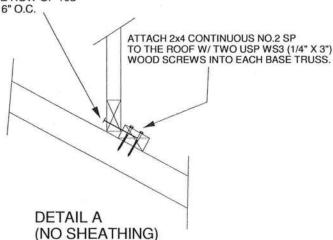
GENERAL SPECIFICATIONS

- 1. NAIL SIZE 10d (0.131" X 3")
 2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT DO NOT USE DRYWALL OR DECKING TYPE SCREW
- 3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 6. NAILING DONE PER NDS 01
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



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

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



N.T.S.

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

No 39380

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

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2

MiTek USA, Inc.

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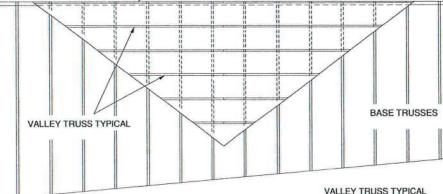


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GABLE END, COMMON TRUSS OR GIRDER TRUSS

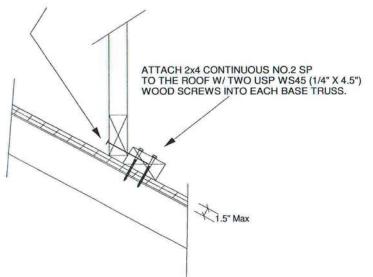
GENERAL SPECIFICATIONS

- 1. NAIL SIZE 10d (0.131" X 3") 2. WOOD SCREW = 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.



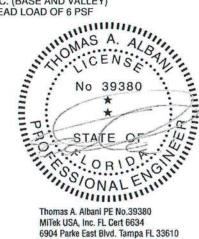
GABLE END, COMMON TRUSS OR GIRDER TRUSS VALLEY TRUSS TYPICAL 12 SEE DETAIL A BELOW (TYP.)

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

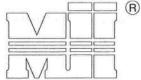
ON THE TRUSSES



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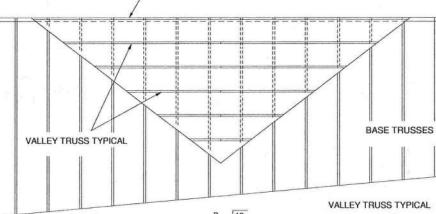


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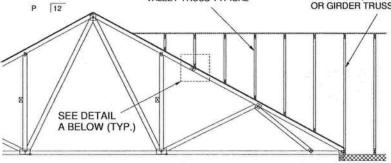
GABLE END, COMMON TRUSS OR GIRDER TRUSS

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.

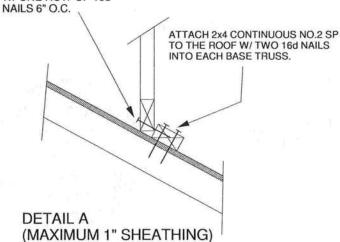


GABLE END, COMMON TRUSS OR GIRDER TRUSS



SECURE VALLEY TRUSS W/ ONE ROW OF 16d

N.T.S.



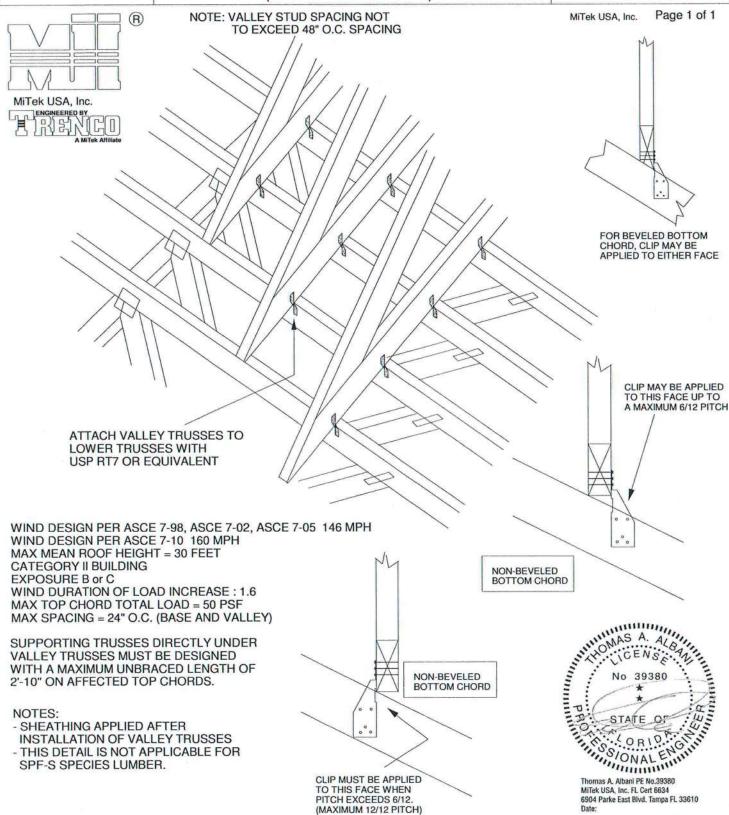
WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10 150 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12 CATEGORY II BUILDING EXPOSURE C OR B WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 60 PSF MAX SPACING = 24" O.C. (BASE AND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



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TRUSSED VALLEY SET DETAIL (HIGH WIND VELOCITY)

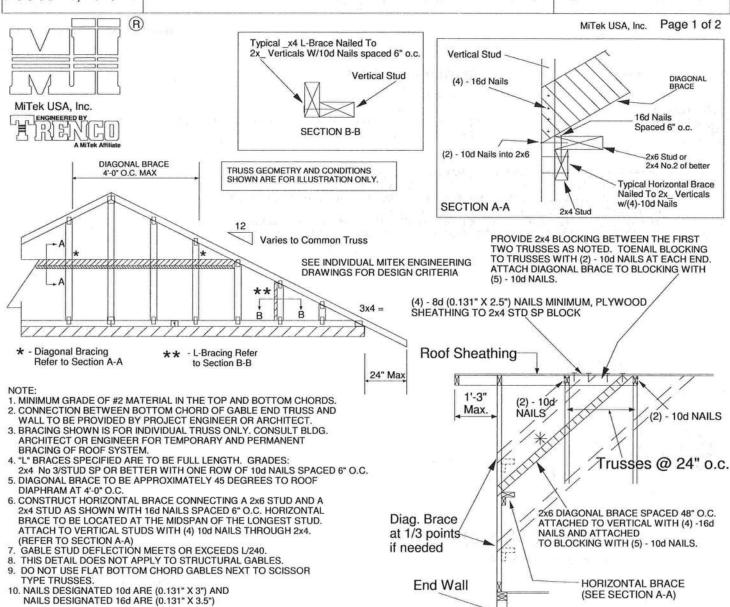
MII-VALLEY





Standard Gable End Detail

MII-GE146-001



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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OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B

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(R)

MiTek USA, Inc.

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

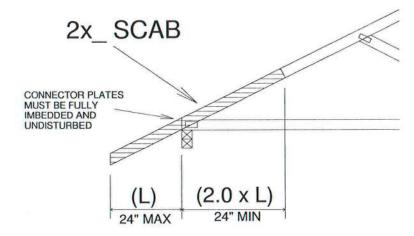
NOTES:

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. 2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH

AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.

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



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 No 393 STATE 39380

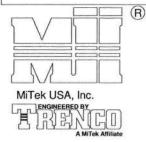
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

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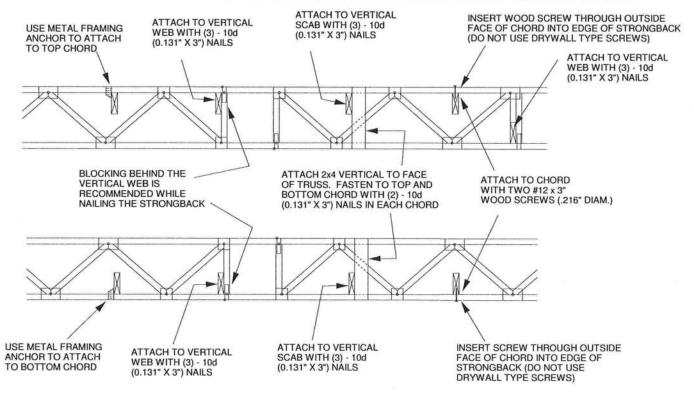
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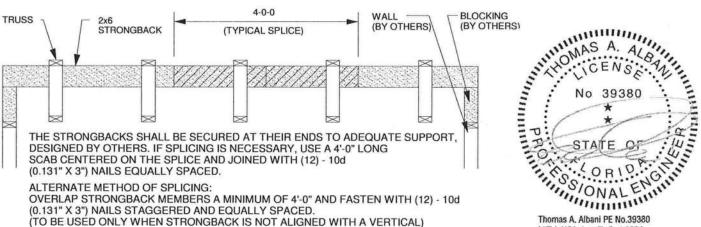


TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS. 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

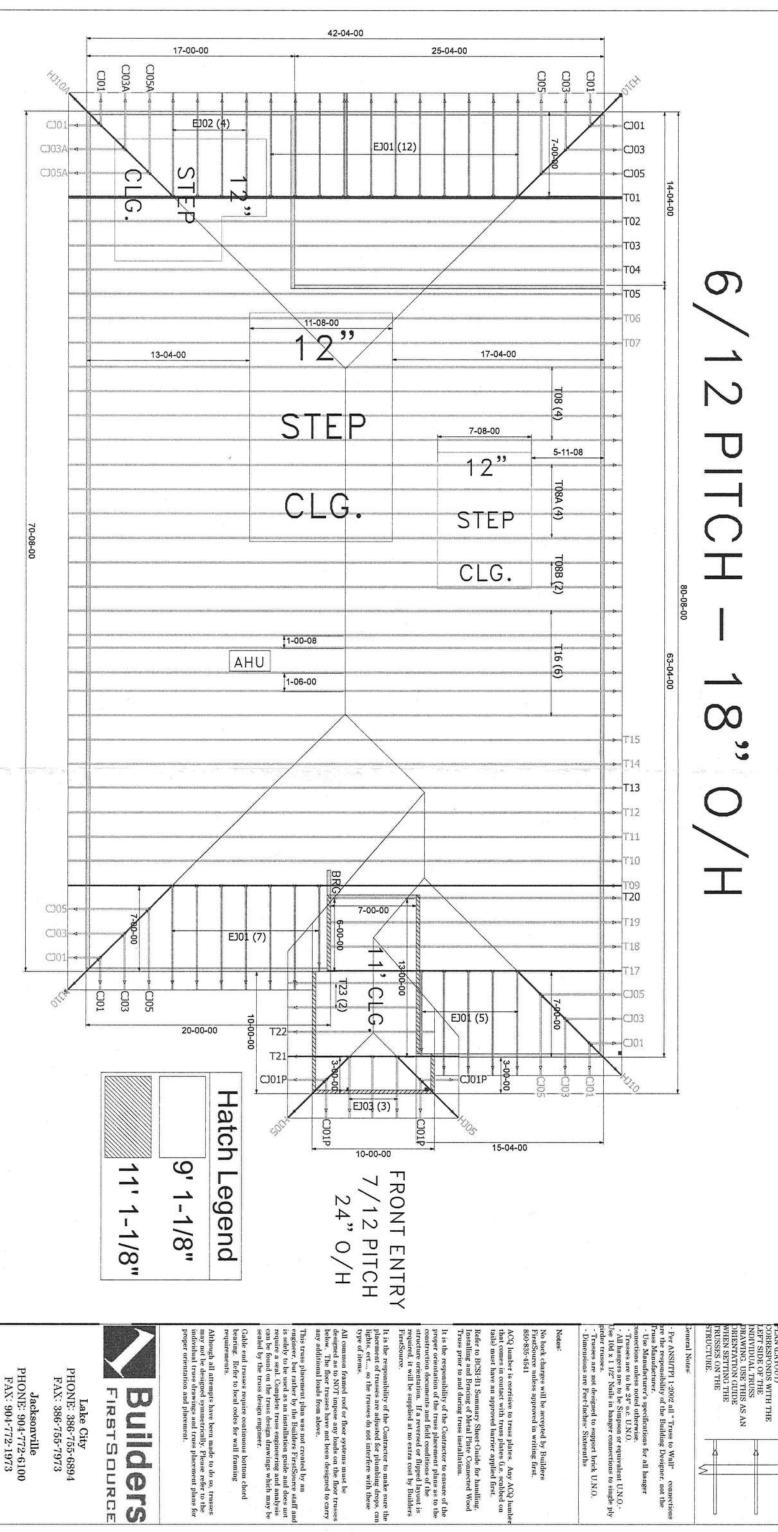
NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

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





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3

THE ARROW HEAD AT THE END OF THE TRUSS ON THE TRUSS PLACEMENT PLAN (LAYOUT)

Trusses are not designed to support brick U.N.O. Dimensions are Feet-Inches: Sixteenths

No back charges will be accepted by Builders FirstSource unless approved in writing first, 850-885-4541

ACQ lumber is corrisive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. scabbed on tails) must have an approved barrier applied first.

It is the responsibility of the Contractor to ensure of the proper orientation of the truss placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is required, it will be supplied at no extra cost by Builders produced.

It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, eet..., so the trusses do not interfere with these type of items.

All common framed roof or floor systems must be designed as to NOT impose any loads on the floor trusses below. The floor trusses have not been designed to carry any additional loads from above.

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and its solely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis can be found on the truss design drawings which may be sealed by the truss design engineer.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing

Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.

Builders

FIRSTSOURCE

Lake City PHONE: 386-755-6894 FAX: 386-755-7973

Tallahassee PHONE: 850-576-5177

AARON SIMQUE HOMES

Lot 57 Preserve

2281 5 - 19 - 21KLH 2802407 riginal Ref#:

2802407