

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

RE: 2845647 - SIMQUE - LOT 34 PRESERVE

MiTek USA, Inc.

6904 Parke East Blvd.

Site Information:

Customer Info: Aaron Simque Homes Project Name: Custom Model: Bristol Modified

Lot/Block: 34

Subdivision: Preserve at Laurel Lakes

Address: TBD, TBD City: Columbia Cty

State: FL

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

Name:

License #:

Address:

State:

City:

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

Design Code: FBC2020/TPI2014

Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-16

Wind Speed: 130 mph

Roof Load: 37.0 psf

Floor Load: 55.0 psf

This package includes 56 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet UIL 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	T24526136	CJ01A	6/30/21	23	T24526158	T05_	6/30/21
2	T24526137	CJ01T	6/30/21	24	T24526159	T05D	6/30/21
	T24526138 T24526139	CJ02A CJ02T	6/30/21	25	T24526160	T06 T07	6/30/21
5	T24526140	CJ021 CJ03A	6/30/21 6/30/21	26 27	T24526161 T24526162	T07G	6/30/21 6/30/21
4 5 6	T24526141	CJ03T	6/30/21	28	T24526163	T08	6/30/21
7	T24526142	EJ01	6/30/21	29	T24526164	T09	6/30/21
8	T24526143	EJ02	6/30/21	30	T24526165	T10	6/30/21
9	T24526144	HJ01A	6/30/21	31	T24526166	T11	6/30/21
10	T24526145	HJ01T	6/30/21	32	T24526167	T12	6/30/21
11 12	T24526146 T24526147	PB01 PB01G	6/30/21 6/30/21	33	T24526168 T24526169	T12D T14	6/30/21
13	T24526147	PB04	6/30/21	34 35	T24526170	T15	6/30/21 6/30/21
14	T24526149	PB04G	6/30/21	36	T24526171	T16	6/30/21
15	T24526150	T01	6/30/21	37	T24526172	T17	6/30/21
16	T24526151	T01G	6/30/21	38	T24526173	T18	6/30/21
17	T24526152	T02	6/30/21	39	T24526174	T18G	6/30/21
18 .	T24526153	T03	6/30/21	40	T24526175	T19	6/30/21
19 20	T24526154 T24526155	T03G T04	6/30/21 6/30/21	41	T24526176 T24526177	T20 T21	6/30/21
21	T24526156	T04D	6/30/21	42 43	T24526177	T22	6/30/21 6/30/21
22	T24526157	T04G	6/30/21	44	T24526179	T23	6/30/21

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

Truss Design Engineer's Name: ORegan, Philip

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

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



for

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

June 30,2021



RE: 2845647 - SIMQUE - LOT 34 PRESERVE

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

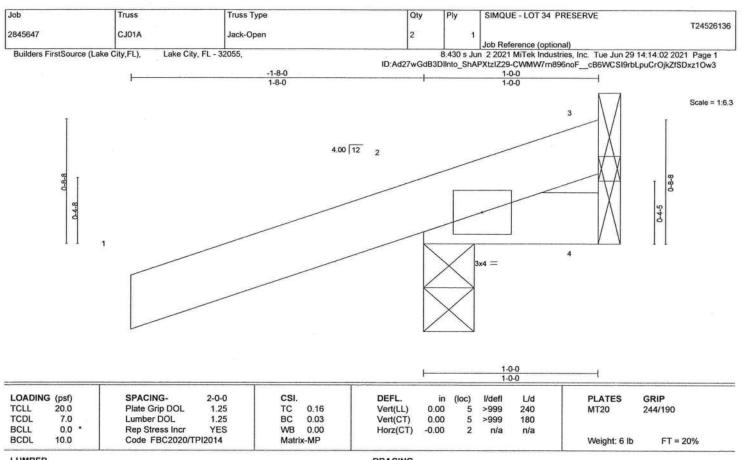
Customer Info: Aaron Simque Homes Project Name: Custom Model: Bristol Modified

ot/Block: 34 Subdivision: Preserve at Laurel Lakes

Lot/Block: 34 Address: TBD, TBD

City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
45	T24526180	T24	6/30/21
46	T24526181	T25	
47	T24526182	T26	6/30/21
48	T24526183	T26G	
49	T24526184	TG01	6/30/21
50	T24526185	TG02	6/30/21
51	T24526186	TG03	6/30/21
52	T24526187	TG04	6/30/21
53	T24526188	TG05	6/30/21
54	T24526189	TG06	6/30/21
55	T24526190	TG07	6/30/21
56	T24526191	TG08	



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=38(LC 8)

Max Uplift 3=-12(LC 1), 2=-140(LC 8), 4=-27(LC 1) Max Grav 3=14(LC 8), 2=202(LC 1), 4=25(LC 8)

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

NOTES- (7

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; 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.
- 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) 3, 4 except (jt=lb) 2=140.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

June 30,2021



Qty SIMQUE - LOT 34 PRESERVE Truss Truss Type Job T24526137 4 2845647 CJ01T JACK-OPEN TRUSS Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:03 2021 Page 1 ID:Ad27wGdB3Dlinto_ShAPXtzIZ29-gjwuKBomvQvft8Zolp2R_Vh_Al9rxIetyD00lNz10w2 1-0-0 1-8-0 Scale = 1:11.1 3x4 || 8.00 12 2 -7.3 2x4 11 1-0-0

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

in

0.00

0.00

-0.00

(loc)

5 >999

5

3 n/a

I/defl

>999

except end verticals.

L/d

240

180

n/a

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

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

LUMBER-

REACTIONS.

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

20.0

7.0

00

10 0

WEBS

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

Code FBC2020/TPI2014

Max Horz 5=48(LC 12)

SPACING-

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Max Uplift 5=-67(LC 12), 3=-57(LC 1), 4=-18(LC 1) Max Grav 5=234(LC 1), 3=17(LC 16), 4=9(LC 3)

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

TOP CHORD 2-5=-200/252

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

BC

WB

Matrix-MR

0.29

0.04

0.00

- 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.

2-0-0

1 25

1.25

YES

- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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, 3, 4.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



PLATES

Weight: 7 lb

MT20

GRIP

244/190

FT = 20%

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

June 30,2021

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 on 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/TPH1 Quality Criteria, DSB-39 and BCSI Building Component Safety Information

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



Job Truss Type SIMQUE - LOT 34 PRESERVE Truss Qty Ply T24526138 2845647 CJ02A Jack-Open Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:04 2021 Page 1 ID:Ad27wGdB3DlInto_ShAPXtzlZ29-8vUHYXpOgj1WVI8_JXZgXjEBC9U?glu0Bt8Zlpz1Ow1 Scale = 1:9.7 4.00 12 2 0-4-8 10 3x4 = 3-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in **PLATES** GRIP (loc) I/defl L/d TCLL 20.0 Plate Grip DOL 1.25 TC 0.15 Vert(LL) 0.01 4-7 >999 240 MT20 244/190 TCDL 7.0 1.25 Lumber DOL BC 0.11 Vert(CT) -0.01 >999 180 4-7 BCLL 0.0 WB 0.00 Rep Stress Incr YES Horz(CT) -0.00 3 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MP Weight: 12 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins. BOT CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS.

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

Max Horz 2=61(LC 8)

Max Uplift 3=-30(LC 8), 2=-133(LC 8), 4=-16(LC 9)

Max Grav 3=56(LC 1), 2=224(LC 1), 4=48(LC 3)

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

NOTES- (7

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-8-0 to 1-4-0, Interior(1) 1-4-0 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

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) 3, 4 except (jt=lb) 2=133.

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



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

June 30,2021

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

**AMSUTPI1 Quality Criteria, DSB-89 and BCSI Building Component available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Type Qty SIMOUE - LOT 34 PRESERVE Truss T24526139 4 JACK-OPEN TRUSS 2845647 CJ02T Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:05 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:Ad27wGdB3DlInto_ShAPXtzIZ29-c51fltp0R19N6SiAsE4v4wnL_ZqXPC79QXt6qFz1Ow0 2-11-10 3-0-0 Scale = 1:17.8 2x4 || 8.00 12 4x4 // 1-10-15 2-5-12 2x4 = 0-11-3 2x4 II 3x10 || 2-11-10 3-0-0 0-8-2 0-0-6 Plate Offsets (X,Y)- [2:0-3-0,0-0-6] PLATES SPACING-2-0-0 CSI DEFL **V**defl L/d LOADING (psf) (loc) 244/190 20.0 Plate Grip DOL 1.25 TC 0.21 Vert(LL) -0.00 >999 240 MT20 TCLL -0.00 >999 180 Lumber DOL 1.25 BC 0.09 Vert(CT) 8 TCDL 70 Rep Stress Incr WB n/a 0.00 Horz(CT) 0.00 BCLL 0.0 YES 6 n/a Code FBC2020/TPI2014 Weight: 19 lb FT = 20% Matrix-MR BCDL 100

BRACING-

TOP CHORD BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

4-8: 2x4 SP No.3

SLIDER Left 2x6 SP No.2 1-6-0

REACTIONS.

(size) 5=Mechanical, 2=0-3-8, 6=Mechanical

Max Horz 2=103(LC 12)

Max Uplift 5=-27(LC 12), 2=-39(LC 12), 6=-32(LC 12) Max Grav 5=44(LC 19), 2=224(LC 1), 6=50(LC 19)

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

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 2-11-4 zone; end vertical left 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) 5, 2, 6.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

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

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

June 30,2021



Job Truss Truss Type Qty Ply SIMQUE - LOT 34 PRESERVE T24526140 2845647 **CJ03A** Jack-Open 2 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:06 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:Ad27wGdB3Dllnto_ShAPXtzIZ29-4Hb1yDqeCLHEkbHNQyb8c8JUty7i8fNJfBdgMiz1Ow? Scale = 1:13.0 4.00 12 0-4-8 3x4 = LOADING (psf) SPACING-2-0-0 CSI DEFL I/defl Ld **PLATES** GRIP TCII 20.0 Plate Grip DOL 1.25 TC 0.27 Vert(LL) 0.03 4-7 >999 240 MT20 244/190 7.0 BC TCDL Lumber DOL 1.25 0.23 Vert(CT) -0.05 >999 180 0.0 * Rep Stress Incr WB BCLL YES 0.00 Horz(CT) 0.00 3 n/a n/a Code FBC2020/TPI2014 10.0 BCDL Matrix-MP Weight: 18 lb FT = 20% LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.

BOT CHORD

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

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

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

Max Horz 2=84(LC 8)

Max Uplift 3=-57(LC 12), 2=-118(LC 8)

Max Grav 3=111(LC 1), 2=288(LC 1), 4=86(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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 4-11-4 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb)
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

June 30,2021

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 amage. 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 Type SIMQUE - LOT 34 PRESERVE Truss Qty Ply T24526141 2845647 CJ03T JACK-OPEN TRUSS Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:07 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:Ad27wGdB3DlInto_ShAPXtzlZ29-YU9PAZrHzeP5MlsZ_f6N9LsgfMSLt6dStrMDv8z1Ow_ 5-0-0 2-8-8 1-8-0 Scale = 1:24.4 8.00 12 3-3-3 4x4 = 0-11-3 8 2x4 II 3x10 || Plate Offsets (X,Y)-[2:0-3-4,0-0-2] SPACING-PLATES GRIP LOADING (psf) 2-0-0 CSL DEFL (loc) I/def L/d Plate Grip DOL 1.25 0.04 MT20 244/190 TCLL 20.0 TC 0.20 Vert(LL) 6-7 >999 240 Lumber DOL BC -0.04 180 TCDL 7.0 1.25 0.26 Vert(CT) 6-7 >999 Rep Stress Incr BCLL 0.0 YES WB 0.00 Horz(CT) 0.02 6 n/a n/a Code FBC2020/TPI2014 FT = 20% Weight: 26 lb BCDL Matrix-MR 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD

2x4 SP No.2 *Except* 4-8: 2x4 SP No.3

SLIDER Left 2x6 SP No.2 1-6-0

REACTIONS. (size) 5=Mechanical, 2=0-3-8, 6=Mechanical

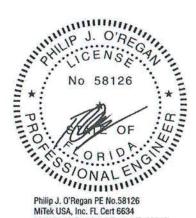
Max Horz 2=150(LC 12)

Max Uplift 5=-73(LC 12), 2=-41(LC 12), 6=-27(LC 12)

Max Grav 5=106(LC 19), 2=288(LC 1), 6=84(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 4-11-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) 5, 2, 6.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

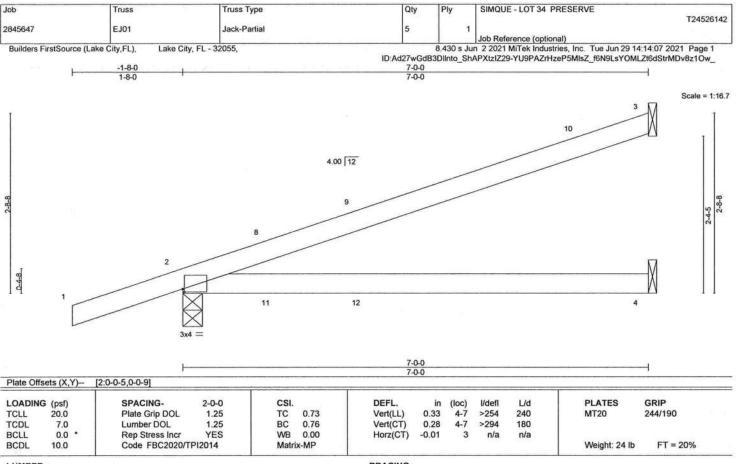
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

June 30,2021

MARNING - Verify design perameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTex® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING-

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

Rigid ceiling directly applied or 9-8-4 oc bracing.

REACTIONS.

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

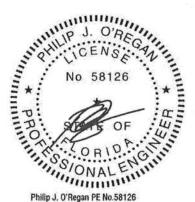
Max Horz 2=108(LC 8)

Max Uplift 3=-92(LC 8), 2=-190(LC 8), 4=-45(LC 8) Max Grav 3=162(LC 1), 2=357(LC 1), 4=124(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-8-0 to 1-4-0, Interior(1) 1-4-0 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
- 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=190.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

June 30,2021

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

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



SIMQUE - LOT 34 PRESERVE Qty Ply Truss Type Job Truss T24526143 JACK-PARTIAL TRUSS 2 2845647 EJ02 | Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:08 2021 Page 1

Builders FirstSource (Lake City,FL),

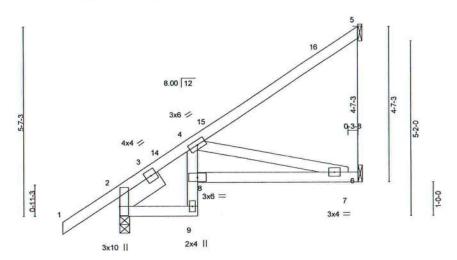
Lake City, FL - 32055,

ID:Ad27wGdB3DlInto_ShAPXtzIZ29-0gjnNvsvkyXyzvRIYNdchZPqmmhMcWsc6V6nQaz1Ovz

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

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

Scale = 1:32 6



7-0-0

BRACING-

TOP CHORD

BOT CHORD

Plate Off	sets (X,Y)- [2:0-3-4,0-0-2]										
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	0.30	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.08	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.03	6	n/a	n/a	200.000.000.000.000	
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP	100000000000000000000000000000000000000					Weight: 39 lb	FT = 20%

LUMBER-

2x4 SP No.2 TOP CHORD

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

4-9: 2x4 SP No.3

WERS 2x4 SP No 3

SLIDER Left 2x6 SP No. 2 1-6-0

REACTIONS.

(size) 5=Mechanical, 2=0-3-8, 6=Mechanical

Max Horz 2=190(LC 12)

Max Uplift 5=-76(LC 12), 2=-48(LC 12), 6=-47(LC 12)

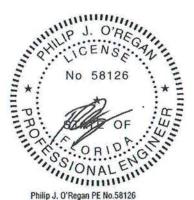
Max Grav 5=124(LC 19), 2=357(LC 1), 6=150(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. BOT CHORD 7-8=-377/423

WEBS 4-7=-434/387

NOTES-(7)

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 6-11-4 zone, end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) 5, 2, 6.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

June 30,2021

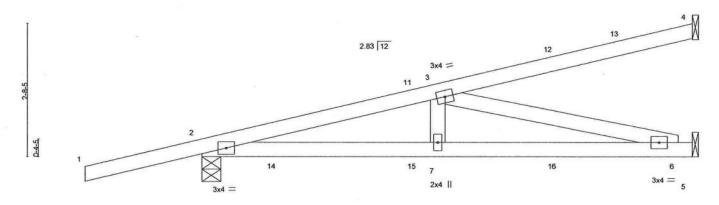
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 **ANS/ITPI1 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

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 34 PRESERVE	
		11 1000	1 RA	22		T24526144
2845647	HJ01A	Diagonal Hip Girder	1	1		
					Job Reference (optional)	
Builders FirstSource	ce (Lake City,FL), Lake	City, FL - 32055,		8.430 s Ju	in 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:09	2021 Page 1
	OCCUPANION OF THE PROPERTY OF		ID:Ad27wG	dB3DIInto_	ShAPXtzIZ29-UsHAbFsXVGfpb30y548rEmxxkA39LvL	IL9rKy1z1Ovy
1	-2-4-5	4-9-0			9-10-13	_1
	2-4-5	4-9-0			5-1-13	-

Scale = 1:22.4



		-		The second secon	-9-0 -9-0		1			9-10-13 5-1-13			
LOADING (psf) TCLL 20.0		SPACING- Plate Grip DOL	2-0-0 1.25	CSI.	0.55	DEFL. Vert(LL)	in 0.06	(loc) 6-7	l/defl >999	L/d 240	PLATES MT20	GRIP 244/190	
TCDL 7.0	4	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.12	6-7	>970	180	WIZO	244/130	
BCLL 0.0 BCDL 10.0	•	Rep Stress Incr Code FBC2020/T	NO PI2014	WB Matri	0.50 x-MS	Horz(CT)	0.01	5	n/a	n/a	Weight: 42 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.3 WEBS

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

Max Horz 2=105(LC 22)

Max Forz 2-105(LC 22) Max Uplift 4=-65(LC 4), 2=-264(LC 4), 5=-122(LC 4) Max Grav 4=145(LC 1), 2=495(LC 1), 5=288(LC 1)

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

TOP CHORD 2-3=-986/394

BOT CHORD 2-7=-430/940, 6-7=-430/940 3-7=-44/257, 3-6=-968/443 WEBS

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) 4 except (jt=lb)
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 21 lb down and 36 lb up at 4-3-11, 21 lb down and 36 lb up at 4-3-11, and 42 lb down and 68 lb up at 7-1-10, and 42 lb down and 68 lb up at 7-1-10 on top chord, and 33 lb down and 40 lb up at 1-5-12, 33 lb down and 40 lb up at 1-5-12, 18 lb down and 23 lb up at 4-3-11, 18 lb down and 23 lb up at 4-3-11, and 39 lb down at 7-1-10, and 39 lb down at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 12=-69(F=-34, B=-34) 14=58(F=29, B=29) 15=-5(F=-2, B=-2) 16=-57(F=-28, B=-28)



Structural wood sheathing directly applied or 5-8-10 oc purlins.

Rigid ceiling directly applied or 8-10-6 oc bracing.

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

June 30,2021



Job Truss Truss Type Qty Ply SIMQUE - LOT 34 PRESERVE T24526145 DIAGONAL HIP GIRDER HJ01T 2845647 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:11 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:Ad27wGdB3DlInto_ShAPXtzIZ29-RFPw0wun1tvXqNAKDVBJJB1Kozl_ppP2oTKR1vz1Ovw 4-11-0 9-10-13 Scale = 1:32.4 18 5 66 12 3x4 = 4-6-13 3x8 = 4x4 = 16 3 10 0-10-13 1-0-0 3x6 22 3x4 = 3x4 = 11 2x4 || 3x10 || 1-8-2 Plate Offsets (X,Y)-[2:0-2-12,0-0-9] PLATES GRIP LOADING (psf SPACING-2-0-0 CSI. DEFL I/defl L/d (loc) TCLL 20.0 Plate Grip DOL 1.25 TC 0.38 Vert(LL) 0.07 8-9 >999 240 MT20 244/190 Lumber DOL 1.25 BC 0.60 -0.09 >999 180 TCDL 7.0 Vert(CT) 8-9 WB 0.40 -0.04 Rep Stress Incr Horz(CT) n/a BCLL 0.0 NO n/a Code FBC2020/TPI2014 Weight: 54 lb FT = 20% BCDL 10.0 Matrix-MS LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

2x4 SP No.3 WEBS SLIDER Left 2x6 SP No.2 1-6-0

REACTIONS.

(size) 6=Mechanical, 2=0-4-15, 7=Mechanical

Max Horz 2=191(LC 8)

Max Uplift 6=-77(LC 8), 2=-271(LC 8), 7=-201(LC 8) Max Grav 6=122(LC 1), 2=511(LC 35), 7=345(LC 32)

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

TOP CHORD 2-4=-555/254, 4-5=-803/419

BOT CHORD 2-11=-314/376, 9-10=-526/661, 8-9=-502/724

WEBS

5-9=-173/281, 5-8=-782/542

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; 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.
- 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) 6 except (jt=lb) 2=271, 7=201.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 61 lb down and 133 lb up at 1-5-12, 61 lb down and 133 lb up at 1-5-12, 68 lb down and 27 lb up at 4-3-11, 68 lb down and 27 lb up at 4-3-11, and 106 lb down and 82 lb up at 7-1-10, and 106 lb down and 82 lb up at 7-1-10 on top chord, and 10 lb down and 45 lb up at 1-5-12, 10 lb down and 45 lb up at 1-5-12, 41 lb down and 41 lb up at 4-3-11, 41 lb down and 41 lb up at 4-3-11, and 57 lb down and 43 lb up at 7-1-10, and 57 lb down and 43 lb up at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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



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

June 30,2021

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Job .	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 34 PRESERVE	
2845647	HJ01T	DIAGONAL HIP GIRDER	2	1		T24526145
	100000000000000000000000000000000000000			25171	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:11 2021 Page 2 ID:Ad27wGdB3Dlinto_ShAPXtzIZ29-RFPw0wun1tvXqNAKDVBJJB1Kozl_ppP2oTKR1vz1Ovw

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-6=-54, 11-12=-20, 7-10=-20

Concentrated Loads (lb)

Vert: 16=68(F=34, B=34) 18=-43(F=-22, B=-22) 21=-30(F=-15, B=-15) 22=-82(F=-41, B=-41)



SIMQUE - LOT 34 PRESERVE Qty Job Truss Truss Type Plv T24526146 16 2845647 **PB01** GABLE Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:12 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:Ad27wGdB3Dlinto ShAPXtzlZ29-vRyIDGvPoB1OSWXnCiYsPZZkNDOYLsB174_ZLz1Ovv 13-6-6 6-9-3 6-9-3 Scale = 1:28.6 4x4 = 8.00 12 2x4 || 2x4 || 12 0-1-10 11.10 10 3x6 = 3x6 =2x4 || 2x4 || 2x4 || 13-6-6 [2:0-3-9,0-1-8], [6:0-3-9,0-1-8] Plate Offsets (X,Y)--SPACING-DEFL I/defl L/d PLATES GRIP LOADING (psf) CSI 244/190 20.0 Plate Grip DOL 1.25 TC 0.11 Vert(LL) 0.00 n/r 120 MT20 TCLL Lumber DOL 1.25 BC 0.08 Vert(CT) 0.00 n/r 120 TCDL 7.0 0.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 6 n/a n/a BCLL Weight: 53 lb FT = 20%BCDL 10.0 Code FBC2020/TPI2014 Matrix-S

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD OTHERS

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

BRACING-TOP CHORD

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

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

REACTIONS. All bearings 12-0-2.

(lb) - Max Horz 2=-98(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 8=-135(LC 13), 10=-135(LC 12) All reactions 250 lb or less at joint(s) 2, 6, 9 except 8=280(LC 20), 10=281(LC 19)

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

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-3-5 to 3-3-5, Exterior(2N) 3-3-5 to 6-9-3, Corner(3R) 6-9-3 to 9-6-6, Exterior(2N) 9-6-6 to 13-3-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 8=135, 10=135.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

June 30,2021

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

**Very New York Stability of the subject of



SIMQUE - LOT 34 PRESERVE Job Truss Truss Type Qty Ply T24526147 2845647 PB01G GABLE 2 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:13 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:Ad27wGdB3DlInto_ShAPXtzIZ29-NeWgQcw1ZUAF4gKjKwDnOc6kbnYhHp7LGmpX5oz1Ovu 4x4 = 8.00 12 2x4 || 5^{2x4} || 0-1-10 10 3x6 = 3x6 = 2x4 || 2x4 || 2x4 || [2:0-3-9,0-1-8], [6:0-3-9,0-1-8] Plate Offsets (X,Y)-LOADING (psf) SPACING-CSI. DEFL **PLATES** GRIP 2-0-0 in l/defl L/d (loc) 0.00 244/190 TCII 20.0 Plate Grip DOL 1.25 TC 0.11 Vert(LL) 120 MT20 n/r BC 0.00 TCDL 7.0 Lumber DOL 1.25 0.08 Vert(CT) n/r 120 WB BCLL 0.0 Rep Stress Incr YES 0.06 Horz(CT) 0.00 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-S Weight: 49 lb FT = 20%

LUMBER-

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

2x4 SP No.3 **OTHERS**

BRACING-

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

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

REACTIONS. All bearings 10-11-7.

Max Horz 2=-90(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 8=-126(LC 13), 10=-127(LC 12) Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 8=267(LC 20), 10=267(LC 19)

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

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-3-5 to 3-3-5, Exterior(2N) 3-3-5 to 6-2-13, Corner(3R) 6-2-13 to 9-2-14, Exterior(2N) 9-2-14 to 12-2-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 8=126, 10=127
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



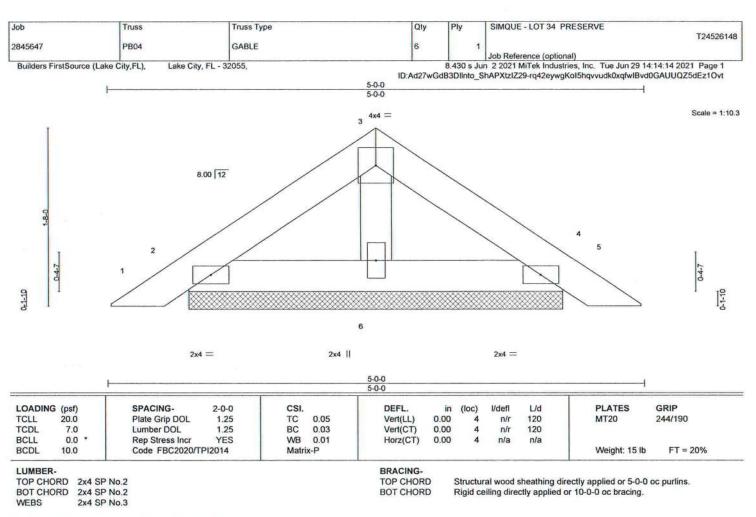
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

June 30,2021

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





REACTIONS.

(size) 2=3-5-12, 4=3-5-12, 6=3-5-12

Max Horz 2=-34(LC 10)

Max Uplift 2=-34(LC 12), 4=-39(LC 13), 6=-7(LC 12) Max Grav 2=98(LC 1), 4=98(LC 1), 6=114(LC 1)

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

NOTES- (11)

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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

June 30,2021

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



Job Truss Truss Type Qty SIMQUE - LOT 34 PRESERVE T24526149 2845647 PB04G PIGGYBACK TRUSS Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:15 2021 Page 1 ID:Ad27wGdB3Dlinto_ShAPXtzlZ29-J0eRrlxl56QyJ_T5SLFFU1B5QbF5ljUej4leAgz1Ovs 1-11-11 Scale = 1:8.6 8.00 12 2 0-1-10 0-1-10 2x4 || 2x4 = 2x4 = 3-11-6 LOADING (psf) SPACING-2-0-0 CSI DEFL I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.02 Vert(LL) 0.00 n/r 120 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.02 Vert(CT) 0.00 n/r 120 0.0 BCLL Rep Stress Incr YES WB 0.01 Horz(CT) 0.00 n/a n/a BCDI 10.0 Code FBC2020/TPI2014 Matrix-P Weight: 11 lb FT = 20%BRACING-LUMBER-TOP CHORD TOP CHORD 2x4 SP No.2 Structural wood sheathing directly applied or 3-11-6 oc purlins. **BOT CHORD** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SP No.3 **OTHERS**

REACTIONS.

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

Max Horz 2=26(LC 11)

Max Uplift 2=-28(LC 12), 4=-32(LC 13), 6=-3(LC 12) Max Grav 2=78(LC 1), 4=78(LC 1), 6=76(LC 1)

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

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4,2psf; BCDL=3,0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.

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

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



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

June 30,2021

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Truss Type Qty SIMQUE - LOT 34 PRESERVE Truss Ply Job T24526150 T01 **COMMON TRUSS** 2845647 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:16 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055. ID:Ad27wGdB3DlInto_ShAPXtzIZ29-nDCp3eywsPYpx82I02mU0FkAO_WkU?Knyk2Ci7z1Ovr 1-8-0 1-8-0 16-5-8 5-5-8 22-0-0 1-8-0 4x6 || Scale = 1:56.3 9.00 12 5x6 / 5x6 3x8 / 3x8 N 10 15 9 11

Plate Offsets (X,Y)— [3:0-3-0,0-3-0], [5:0-3-0,0-3-0]						10-11-0 5-0-6				3-0-0		
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	0.39	Vert(LL)	-0.19	9-11	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.36	9-11	>715	180	2012/00/20	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	CII PARCINO AND					Weight: 163 lb	FT = 20%

16-5-8

BRACING-

TOP CHORD

BOT CHORD

4x6 =

6x8 =

LUMBER-

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

2x4 SP No.3 *Except* WEBS

2-12.6-8: 2x6 SP No.2

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

Max Horz 12=252(LC 11)

Max Uplift 12=-290(LC 12), 8=-290(LC 13) Max Grav 12=1374(LC 19), 8=1335(LC 20)

2x4 ||

5-6-8

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

TOP CHORD 2-3=-1648/326, 3-4=-1695/502, 4-5=-1632/502, 5-6=-1651/326, 2-12=-1438/339,

6-8=-1388/339

BOT CHORD 9-11=-81/863

WEBS 4-9=-342/1011, 5-9=-321/266, 4-11=-342/1054, 3-11=-321/266, 2-11=-177/1258,

6-9=-177/1321

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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 23-8-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 12=290, 8=290

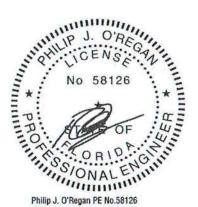
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

LOAD CASE(S) Standard

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

Vert: 1-2=-54, 2-4=-54, 4-6=-54, 6-7=-54, 11-12=-20, 9-11=-80(F=-60), 8-9=-20



2x4 ||

Structural wood sheathing directly applied or 4-2-1 oc purlins,

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

6x8 =

except end verticals.

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

June 30,2021

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



Job Truss Truss Type Qty SIMQUE - LOT 34 PRESERVE T24526151 2845647 T01G GABLE Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:18 2021 Page 1 ID:Ad27wGdB3Dlinto_ShAPXtzIZ29-kbKZUKzAN1oXARCg7Tpy5gpZWoGly3M4P2Xlm?z1Ovp 1-8-0 22-0-0 Scale = 1:59.4 10 11 9.00 12 29 12 13 5 3x4 > 14 3x4 / 12x14 = 15 5-0-0 16 27 25 28 26 24 23 22 21 20 19 18 4x6 = 3x6 = 12x14 = 3x6 = 22-0-0 11-0-0 11-0-0 11-0-0 Plate Offsets (X,Y)-[16:Edge,0-8-4], [28:Edge,0-8-4] LOADING (psf) SPACING-CSI DEFL in I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.22 Vert(LL) -0.01 17 n/r 120 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.11 Vert(CT) -0.0217 n/r 120

LUMBER-

BCLL

BCDL

TOP CHORD 2x4 SP No.2

0.0

10.0

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3 *Except*

2-28,16-18: 2x6 SP No.2

OTHERS 2x4 SP No.3

BRACING-

BOT CHORD

Horz(CT)

TOP CHORD Struc

0.00

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

Weight: 177 lb

FT = 20%

except end verticals.

n/a

n/a

18

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

6-0-0 oc bracing: 27-28,18-19.

REACTIONS. All bearings 22-0-0.

(lb) - Max Horz 28=207(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 28, 18, 23, 24, 26, 21, 20 except 27=-135(LC 12), 19=-129(LC

WB

Matrix-S

0.13

13

Max Grav All reactions 250 lb or less at joint(s) 24, 26, 27, 21, 20, 19 except 28=319(LC 1), 18=319(LC 1), 23=386(LC 19), 22=370(LC 20)

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

Rep Stress Incr

Code FBC2020/TPI2014

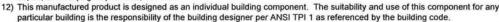
YES

TOP CHORD 2-28=-291/83, 16-18=-291/88

NOTES- (12)

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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-8-0 to 1-4-0, Exterior(2N) 1-4-0 to 11-0-0, Corner(3R) 11-0-0 to 14-0-0, Exterior(2N) 14-0-0 to 23-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 18, 23, 24, 26, 21, 20 except (jt=lb) 27=135, 19=129.
 12) This manufactured product is designed as an individual building component. The suitability and use of this component for any





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

June 30,2021

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ANSI/TPTI 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 Ply SIMQUE - LOT 34 PRESERVE Job Truss T24526152 2845647 T02 COMMON TRUSS Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:19 2021 Page 1 ID:Ad27wGdB3DIInto_ShAPXtzIZ29-Couxhf_o8KwOobnthAKBetMi8CXRhMgDeiGsJSz1Ovo 16-5-8 11-0-0 22-0-0 5-5-8 5-6-8 Scale = 1:56.3 4x6 || 9.00 12 2x4 II 3x8 V 3x8 / 1-4-5 X 8 13 9 7 4x6 = 2x4 || 2x4 || 6x8 = 6x8 = 22-0-0 LOADING (psf) CSI. **PLATES** GRIP SPACING-2-0-0 DEFL L/d in (loc) I/defl 20.0 Plate Grip DOL 1.25 TC Vert(LL) -0.19 7-9 >999 240 MT20 244/190 TCLL 0.36 1.25 BC 0.37 Vert(CT) -0.36 7-9 >712 180 Lumber DOL TCDL 7.0 NO WB 0.76 Horz(CT) 0.01 6 n/a BCLL 0.0 Rep Stress Incr n/a FT = 20% Code FBC2020/TPI2014 Matrix-MS Weight: 157 lb BCDL 100 LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 4-2-11 oc purlins,

BOT CHORD

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

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

2x4 SP No.3 *Except*

1-10,5-6: 2x6 SP No.2

REACTIONS.

(size) 10=0-3-8, 6=0-3-8

Max Horz 10=220(LC 9)

Max Uplift 10=-247(LC 12), 6=-247(LC 13) Max Grav 10=1279(LC 19), 6=1255(LC 19)

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

TOP CHORD 1-2=-1662/326, 2-3=-1723/513, 3-4=-1660/512, 4-5=-1664/326, 1-10=-1342/277,

5-6=-1319/277

BOT CHORD 7-9=-103/855

3-7=-353/1037, 4-7=-343/281, 3-9=-354/1080, 2-9=-343/282, 1-9=-190/1256, WEBS

5-7=-192/1317

NOTES-

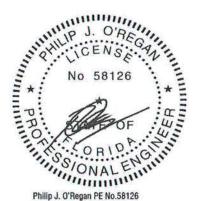
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 21-9-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) 10=247, 6=247.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

Vert: 1-3=-54, 3-5=-54, 9-10=-20, 7-9=-80(F=-60), 6-7=-20



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

June 30,2021

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/ITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty SIMQUE - LOT 34 PRESERVE T24526153 2845647 T03 PIGGYBACK BASE TRUSS 6 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:20 2021 Page 1 ID:Ad27wGdB3DlInto_ShAPXtzlZ29-g_RKu??Qve2FPIM3FurQB5voJcnQQx4NtM0Pruz1Ovn 14-4-0 26-5-12 33-8-0 7-1-12 5-0-0 4x8 = Scale = 1:68.0 4x6 = 8.00 12 6 28 ⊠ ²⁹ ⊠ ³⁰ ⁷ 3x6 > 3x6 > 9 3x4 / 3x4 > 10 17 14 18 16 15 13 3x6 = 3x6 = 3x8 II 2x4 || 3x4 = 3x8 = 2x4 II 5x6 || 14-4-0 7-1-12 Plate Offsets (X,Y)-[6:0-5-12,0-2-0], [7:0-3-12,0-2-0], [11:0-3-13,Edge] LOADING (psf) SPACING-2-0-0 CSI DEFL (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.65 Vert(LL) -0.14 16-18 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.71 Vert(CT) -0.27 16-18 >999 180 0.0 * BCLL Rep Stress Incr YES WR 0.24 Horz(CT) 0.08 11 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-MS Weight: 204 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except BOT CHORD 2x4 SP No.2 2-0-0 oc purlins (5-4-12 max.): 6-7. 2x4 SP No.3 BOT CHORD Rigid ceiling directly applied or 9-10-4 oc bracing. WEBS SLIDER Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0 WEBS 1 Row at midpt 4-16, 6-15, 9-15 REACTIONS. (size) 2=0-3-8, 11=0-3-8

Max Horz 2=242(LC 11)

Max Uplift 2=-304(LC 12), 11=-304(LC 13) Max Grav 2=1449(LC 19), 11=1446(LC 20)

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

2-4=-1923/380, 4-6=-1471/339, 6-7=-1148/344, 7-9=-1467/339, 9-11=-1919/380 TOP CHORD

2-18=-349/1679, 16-18=-349/1679, 15-16=-136/1203, 13-15=-186/1535, 11-13=-186/1535 **BOT CHORD**

4-18=0/282, 4-16=-592/263, 6-16=-114/578, 7-15=-106/550, 9-15=-592/263, 9-13=0/281 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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 14-4-0, Exterior(2R) 14-4-0 to 18-6-15, Interior(1) 18-6-15 to 19-4-0, Exterior(2R) 19-4-0 to 23-6-15, Interior(1) 23-6-15 to 35-4-0 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)
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

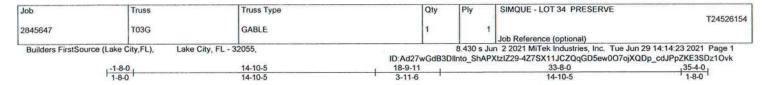


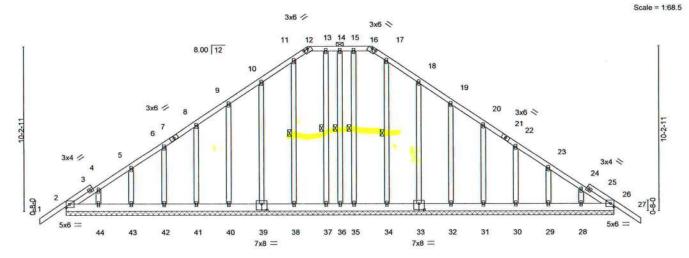
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

June 30,2021

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33-8-0 Plate Offsets (X,Y)— [12:0-3-0,0-0-2], [16:0-3-0,0-0-2], [33:0-4-0,0-4-8], [39:0-4-0,0-4-8]												
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	0.16	Vert(LL)	-0.01	27	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.01	27	n/r	120	20/20/2005	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	26	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S	Line Account to Commence of the Commence of th					Weight: 294 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

2x6 SP No.2 BOT CHORD OTHERS

2x4 SP No.3

BRACING-TOP CHORD

33-8-0

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

2-0-0 oc purlins (6-0-0 max.): 12-16.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 14-36, 17-34, 15-35, 11-38, 13-37 WEBS 1 Row at midpt

REACTIONS. All bearings 33-8-0.

Max Horz 2=242(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 36, 28, 29, 30, 31, 32, 33, 34, 35, 44, 43, 42, 41, 40, 39, 38. 26. 37

Max Grav All reactions 250 lb or less at joint(s) 2, 36, 28, 29, 30, 31, 32, 33, 34, 35, 44, 43, 42, 41, 40, 39, 38, 26, 37

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

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-8-0 to 1-4-0, Exterior(2N) 1-4-0 to 14-10-5, Corner(3R) 14-10-5 to 17-8-0, Exterior(2N) 17-8-0 to 18-9-11, Corner(3R) 18-9-11 to 21-8-0, Exterior(2N) 21-8-0 to 35-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 36, 28, 29, 30, 31, 32, 33, 34, 35, 44, 43, 42, 41, 40, 39, 38, 26, 37.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

June 30,2021

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ANSITH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Qty Job Truss SIMQUE - LOT 34 PRESERVE Truss Type Ply T24526155 2845647 T04 ATTIC TRUSS 3 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City FL - 32055 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:26 2021 Page 1 $ID: Ad27wGdB3DIInto_ShAPXtzIZ29-V8pb934BVUoO7gpDb8yqQM8nZ0qlqU3FFITj3Yz1Ovh$ 16-1-13 32-0-11 Scale = 1:104.4 6x8 4x4 = 2x4 || 6x8 = 4x8 = 5x8 > 8.00 12 5x8 / 10 42 44 41 45 43 7x8 % 2x4 || 6x8 II 8x12 = 2 7x8 < 2 11 4.00 12 2-0-0 7x8 = 18-0-12 13 14 - 2 0480 39 17 38 40 29 27 25 21 15 18 16

Plate Offs	ets (X,Y)	[1:0-3-10,0-2-8], [2:0-4-0, [37:Edge,0-2-4], [44:0-3-			5-4,0-3-0], [1	1:0-4-0,0-4-8], [13	3:0-4-0,0	0-2-10],	[18:0-5-0	,0-5-12], [19:	1 0-0-9 6-5-12 Edge,0-2-4], [29:0-3-12	2,0-6-0],
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.28	38	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.52	38-40	>590	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.05	13	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix	k-MS	Attic	-0.20	19-37	1093	360	Weight: 485 lb	FT = 20%

8x10 =

2x4 ||

4x8 =

2x4 ||

5x8 =

5x8 =

4x6 = 2x4 | 1

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*

12-14: 2x4 SP No.2, 3-4,9-10: 2x8 SP 2400F 2.0E

BOT CHORD 2x8 SP 2400F 2.0E *Except* 28-37,19-28: 2x4 SP No.2

WEBS

2x4 SP No.3 *Except* 3-38,10-18: 2x6 SP No.2 **BRACING-**TOP CHORD

BOT CHORD

WEBS

JOINTS

Structural wood sheathing directly applied or 3-1-13 oc purlins,

except

4x6 = 2x4 ||

2-0-0 oc purlins (5-8-12 max.): 5-8.

6x8 =

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

1 Row at midpt 4-44, 9-45

1 Brace at Jt(s): 24, 22, 35, 33, 44, 45, 30, 26, 20

REACTIONS. All bearings 0-3-8.

Max Horz 1=-265(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-141(LC 12), 15=-386(LC 8),

13=-325(LC 9)

5x8 =

Max Grav All reactions 250 lb or less at joint(s) except 1=1767(LC 2), 15=1477(LC

25), 25=1873(LC 18), 13=873(LC 20)

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

TOP CHORD 1-2=-2860/334, 2-3=-2332/324, 3-4=-1742/387, 4-5=-928/285, 5-6=-1591/556,

6-7=-1516/614, 7-8=-1516/614, 8-9=-760/342, 9-10=-1781/391, 10-11=-2158/354,

11-12=-2183/216, 12-13=-2130/432

BOT CHORD 1-40=-194/2459, 38-40=-194/2456, 36-38=-45/2148, 34-36=0/2998, 32-34=0/2998,

29-32=0/2998, 27-29=-164/897, 25-27=-164/897, 23-25=-139/544, 21-23=-139/544 18-21=-52/1518, 16-18=-37/1828, 15-16=-316/2036, 13-15=-328/2007, 35-37=-1468/15,

33-35=-1468/15, 31-33=-1339/0, 30-31=-482/232, 26-30=-482/232, 24-26=-153/1971,

22-24=-153/1971, 20-22=-64/1432, 19-20=-64/1432

2-40=-43/438, 2-38=-831/305, 3-37=0/794, 18-19=-95/1082, 10-19=-60/589, WEBS

12-16=-432/764, 12-15=-1235/505, 4-42=-1266/212, 42-44=-1255/213, 44-45=-894/257,

43-45=-1752/185, 9-43=-1768/184, 24-25=-278/17, 22-23=-85/250, 19-21=-1280/33,

35-36=-261/0 36-37=0/1304 33-34=-335/69 11-16=-325/232 5-44=-403/964

8-45=-370/1123, 25-26=-1195/0, 22-25=-885/360, 33-36=-208/467, 26-27=-363/36,

26-29=0/1459, 31-32=-25/350, 29-31=-1109/0, 20-21=-284/93

NOTES-(13)

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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 16-1-13, Exterior(2R) 16-1-13 to 19-1-13, Interior(1) 19-1-13 to 29-8-2, Exterior(2R) 29-8-2 to 32-8-2, Interior(1) 32-8-2 to 51-0-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) Provide adequate drainage to prevent water ponding.

Continued on page 2



5x8 =

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

June 30,2021

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 34 PRESERVE	T24526155
2845647	T04	ATTIC TRUSS	3	1		124020100
	3.55				Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:26 2021 Page 2 ID:Ad27wGdB3Dlinto_ShAPXtzlZ29-V8pb934BVUoO7gpDb8yqQM8nZ0qlqU3FFITj3Yz1Ovh

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

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

any other members.

8) Ceiling dead load (5.0 psf) on member(s). 3-4, 9-10, 4-42, 42-44, 44-45, 43-45, 9-43; Wall dead load (5.0psf) on member(s). 3-37, 10-19

9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 35-37, 33-35, 31-33, 30-31, 26-30, 24-26, 22-24, 20-22, 19-20

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 1, 386 lb uplift at joint 15 and 325 lb uplift at joint 13.

11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

12) Attic room checked for L/360 deflection.

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



Ply SIMQUE - LOT 34 PRESERVE Truss Type Qtv Job Truss T24526156 2845647 TO4D ATTIC TRUSS 3 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:30 2021 Page 1 ID:Ad27wGdB3DlInto_ShAPXtzlZ29-Nv26?Q7iZjJqcH7_q_1maCJWre8fmHBrAwRxCJz1Ovd 16-1-13 32-0-11 25-0-14 29-8-2 30-9-7 1-3-4 Scale = 1:114.9 4x6 = 8x10 =8x10 = 4x12 < 4x4 = 2x4 || 8.00 12 7x10 || 8 10 4x8 > 46 47 8x10 / 11 54 2x4 || 8x12 = 8x10 > 12 4x6 / 4.00 12 2-0-0 7x8 = 2 18-0 14 15 Ιφ 39 7x 30 = 35 41 18 42 40 33 30 28 20 16 5x8 = 7x10 = 6x8 = 6x8 3x8 || 4x12 || 2x4 11 8x12 = 3x8 II 5x8 =

17-9-3 21-8-4 25-8-4 30-0-11 $\frac{\mid \frac{50.0}{50.0} \mid \frac{9.84}{4.84} \mid \frac{13.93}{4.015} \mid \frac{15.93}{2.001} \mid \frac{19.84}{2.001} \mid \frac{23.84}{2.001} \mid \frac{28.011}{2.001} \mid \frac{32.01}{2.001} \mid \frac{38.24}{6.19} \mid \frac{42.911}{4.77} \mid \frac{1}{0.09} \mid \frac{49.40}{65.12} \mid \\ [3:0-5-0,0-4-8], [4:0-5-15,Edge], [6:0-7-12,0-4-0], [9:0-7-12,0-4-0], [12:0-5-0,0-4-8], [13:0-4-12,0-2-4], [14:0-4-0,0-2-10], [21:0-2-0,Edge], [30:0-5-12,0-6-0]$ Plate Offsets (X.Y)-[32:0-3-8,0-1-8], [38:0-2-8,Edge], [46:0-3-8,0-3-0], [47:0-4-8,0-3-4] LOADING (psf) SPACING-DEFL **PLATES** GRIP 2-0-0 CSI. in (loc) I/defl L/d 20.0 Plate Grip DOL 1.00 0.58 Vert(LL) -0.24 37-39 >999 240 244/190 TCLL TC MT20 7.0 1.00 BC 0.97 Vert(CT) -0.35 37-39 180 TCDL Lumber DOL >871 0.0 Rep Stress Incr NO WB 0.91 0.05 14 n/a BCLL Horz(CT) n/a Code FBC2020/TPI2014 Matrix-MS 0.13 21-38 1611 360 Weight: 1570 lb FT = 20% 10.0 Attic BCDL

> BRACING-TOP CHORD

> **BOT CHORD**

JOINTS

8x12 =

10x12 = 8x12 =

2x4 ||

8x12 =

8x12 =

3x8 =

4x8 =

2x4 ||

LUMBER-

BOT CHORD

WEBS

TOP CHORD 2x6 SP No.2 *Except*

3-6,9-12: 2x8 SP 2400F 2.0E, 13-15: 2x4 SP No.2

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

29-38,21-29: 2x4 SP M 31

WEBS 2x4 SP No.3 *Except*

4-39,11-19: 2x6 SP No.2, 13-17,26-27,23-26: 2x4 SP No.2

25-26: 2x8 SP 2400F 2.0E

20-21,37-38,27-30,34-37,30-32,20-23: 2x4 SP M 31

REACTIONS. All bearings 0-3-8 except (jt=length) 16=0-4-5 (input: 0-3-8), 26=0-6-9 (input: 0-3-8).

Max Horz 1=-265(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-1340(LC 5), 16=-2950(LC 4),

5x8 =

14=-222(LC 5), 26=-3852(LC 4)

All reactions 250 lb or less at joint(s) except 1=6223(LC 16),

16=10990(LC 17), 14=431(LC 1), 26=16723(LC 17)

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

TOP CHORD 1-2=-10386/2279, 2-3=-10576/2400, 3-4=-9175/2149, 4-5=-6020/1478, 5-6=-1456/412, 6-7=-1523/459, 7-8=-812/529, 8-9=-812/529, 9-10=-283/551, 10-11=-6329/1558,

11-12=-9446/2294, 12-13=-10365/2577, 13-14=-1019/265

1-42=-1977/8729, 40-42=-1977/8729, 39-40=-3062/13338, 37-39=-3000/13158,

35-37=-3218/14267, 33-35=-3218/14267, 30-33=-3218/14267, 28-30=-4033/1172,

26-28=-4033/1172, 24-26=-4945/1132, 20-24=-4945/1132, 19-20=-2179/7139,

17-19=-2232/7533, 16-17=-327/1581, 14-16=-172/954, 36-38=-8947/2018,

34-36=-8947/2018, 32-34=-6997/1553, 31-32=-329/757, 27-31=-325/747,

25-27=-4227/18496, 23-25=-4227/18496, 22-23=-983/4302, 21-22=-983/4302

3-40=-363/1772, 3-38=-2903/642, 38-39=-767/2472, 4-38=-1348/5718, 19-21=-617/2381,

11-21=-374/1497, 12-21=-1776/634, 13-17=-2105/7917, 13-16=-9730/2562,

5-44=-5921/1388, 44-46=-5849/1374, 46-47=-6375/1287, 45-47=-8694/2047. 10-45=-8811/2071, 25-26=-1902/397, 23-24=-2374/511, 20-22=-1247/251,

20-21=-4615/1283, 36-37=-1055/200, 37-38=-927/3743, 34-35=-1914/419,

32-33=-771/3254, 30-31=-1028/207, 27-28=-2513/549, 12-17=-1343/278, 6-44=-87/477,

9-45=-155/772, 6-46=-569/425, 9-47=-473/1361, 7-47=-1301/314, 26-27=-8671/1953, 27-30=-2801/12317, 34-37=-546/2284, 30-32=-8875/2017, 38-40=-4527/1059,

17-21=-312/1462, 2-42=-331/123, 2-40=-206/472, 20-23=-2402/9474, 23-26=-7324/1958

No 58126

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No 58126

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ORIO ORIO
ONAL ENGINEERS

Philip J. O'REGA

No 58126 Philip J. O'Regan PE No.58126

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

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

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

6-0-0 oc bracing: 28-30,26-28,24-26,20-24.

SUPPLEMENTARY BEARING PLATES SPECIAL ANCHORAGE OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.)

ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

1 Brace at Jt(s): 25, 23, 22, 36, 34, 31, 46, 47

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

June 30,2021

A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with 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 language. 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 20801



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 34 PRESERVE	T04500450
2845647	TO4D	ATTIC TRUSS	1	2		T24526156
	No. of Contract	- Constitution of the Cons		3	Job Reference (optional)	
D 111 - E1 10-	- (I -t- Oit FI) I -t-	Oit. CL DOOFF		0 420 a lu	a 2 2024 MiTak laduatrias las Tue lun 20 1	4:14:21 2021 Page 2

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:31 2021 Page 2 ID:Ad27wGdB3DlInto_ShAPXtzIZ29-r5cUCm7KJ0RhERiAOiY?7Pshb1UuVkQ_OaAUkiz1Ovc

NOTES- (17)

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-8-0 oc, 2x4 - 1 row at 0-4-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered 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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.

7) All plates are 3x6 MT20 unless otherwise indicated.

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

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

10) Ceiling dead load (5.0 psf) on member(s), 4-5, 10-11, 5-44, 44-46, 46-47, 45-47, 10-45; Wall dead load (5.0 psf) on member(s), 4-38, 11-21

11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 36-38, 34-36, 32-34, 31-32, 27-31, 25-27, 23-25, 22-23, 21-22

12) WARNING: Required bearing size at joint(s) 16, 26 greater than input bearing size.

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1340 lb uplift at joint 1, 2950 lb uplift at joint 16, 222 lb uplift at joint 14 and 3852 lb uplift at joint 26.

14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2029 lb down and 574 lb up at 32-11-4 on top chord, and 3072 lb down and 869 lb up at 13-10-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

16) Attic room checked for L/360 deflection.

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

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-4=-54, 4-5=-64, 5-6=-54, 6-9=-54, 9-10=-54, 10-11=-64, 13-15=-54, 48-55=-20, 16-55=-265(F=-245), 16-51=-20, 38-56=-40, 21-56=-285(F=-245), 5-10=-10

Drag: 4-38=-10, 11-21=-10

Concentrated Loads (lb)

Vert: 39=-1702(F) 54=-1124

Trapezoidal Loads (plf)

Vert: 11=-201(F=-147)-to-13=-319(F=-265)

Job Truss Truss Type Qty Ply SIMQUE - LOT 34 PRESERVE T24526157 2845647 **T04G** GABLE Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:38 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:Ad27wGdB3DlInto_ShAPXtzlZ29-8RX7g9DjgAJiaWkWlgAevueynsy?ezk0?9NMUrz1OvV 15-3-10 1-6-6 Scale = 1:111.0 6x8 = 4x4 = 6x8 = 8.00 12 4x6 = 4x6 = 9 4x8 // 6 82 10 114x8 < 48 12 4x6 < 4x6 / 4x6 < 4x6 / 11 8x12 = 13 4.00 12 3 14 4x4 / 3x6 = 8x10 > 8x10 > 18-0-0 16 17 0,8,0 83 43 3x6 || 42 37 21 18 5x8 = 3x6 II 3x6 4x6 = 8x10 = 4x6 =3x6 || 3x6 || 4x6 = 8x10 / 5x8 > 3x6 || 8x10 = _ 3x6 || 3x6 || 3x6 | 4x6 = 3x6 | 3x6 || 3x6 II 4x8 3x6 = 8×10 = 346 = 3x6 II 3x10 = 21-3-6 23-8-4 32-0-11 15-9-3₁17-9-3₁19-8-4₁ 21₈-4₂ 25-8-4₂27-8-4₃0-0-11₁ 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 2-0-0 6-1-11

04-14 [1:Edge,0-3-8], [7:0-5-4,0-3-0], [10:0-5-4,0-3-0], [16:0-2-0,0-1-8], [17:0-4-0,Edge], [17:0-5-12,Edge], [20:0-5-0,0-6-0], [22:Edge,0-2-4], [32:0-3-12,0-6-0], Plate Offsets (X,Y)-[40:Edge,0-2-4], [42:0-5-0,0-6-0], [47:0-3-8,0-3-0], [48:0-4-3,0-3-7], [55:0-1-10,0-1-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defi 1 /d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.00 TC 0.27 Vert(LL) -0.05 19-21 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.00 BC. 0.62 Vert(CT) -0.09 19-21 >999 180 Rep Stress Inci BCLL 0.0 YES WR 0.68 Horz(CT) 0.01 18 n/a n/a FT = 20%BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Attic 0.03 22-40 6554 360 Weight: 544 lb

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*

15-17,16-17,1-2: 2x4 SP No.2 2x8 SP 2400F 2.0E *Except*

BOT CHORD 31-40.22-31: 2x4 SP No.2

WEBS 2x4 SP No.3 *Except*

5-41.12-21: 2x6 SP No.2

OTHERS 2x4 SP No.3

WEDGE

Right: 2x4 SP No.3

REACTIONS. All bearings 0-3-8 except (jt=length) 1=0-5-8, 43=0-5-8.

Max Horz 1=-254(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 17=-156(LC 9), 1=-234(LC 8),

43=-216(LC 12), 18=-291(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 17 except 1=501(LC 1), 43=1894(LC 20), 18=1708(LC 25), 28=1830(LC 18)

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

TOP CHORD 1-3=-719/512, 3-5=-1276/380, 5-6=-1139/424, 6-7=-816/293, 7-8=-1458/533,

8-9=-1434/523, 9-10=-1434/523, 10-11=-804/264, 11-12=-1135/414, 12-14=-1279/372,

14-15=-1189/254, 15-17=-248/422

BOT CHORD 1-43=-168/597, 41-43=-168/597, 39-41=-54/953, 37-39=-294/1777, 35-37=-294/1777,

32-35=-294/1777, 30-32=-228/416, 28-30=-228/416, 26-28=-51/537, 24-26=-51/537, 21-24=-75/1038, 19-21=-92/949, 18-19=-265/257, 17-18=-369/276, 38-40=-682/194, 36-38=-682/194, 34-36=-1033/241, 33-34=-485/252, 29-33=-485/252, 27-29=-437/1584,

25-27=-437/1584, 23-25=-118/506, 22-23=-118/506

WEBS 3-43=-1636/533, 3-41=-223/1106, 40-41=-559/166, 5-40=-256/234, 21-22=-52/264

15-19=-262/1265, 15-18=-1402/379, 6-45=-668/264, 45-47=-659/265, 47-48=-521/624, 46-48=-598/259, 11-46=-608/259, 27-28=-262/86, 25-26=-98/403, 23-24=-254/97, 22-24=-665/163, 38-39=-274/106, 39-40=-227/815, 29-30=-297/94, 14-19=-398/192 7-47=-312/897, 10-48=-319/871, 28-29=-1022/267, 25-28=-1269/373, 36-39=-411/72,

32-34=-649/219, 29-32=-307/1100

(15)

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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 16-8-2, Exterior(2R) 16-8-2 to 19-8-2, Interior(1) 19-8-2 to 29-1-13, Exterior(2R) 29-1-13 to 32-1-11, Interior(1) 32-1-11 to 49-2-4 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60



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

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

2-0-0 oc purlins (5-10-15 max.): 7-10.

6-0-0 oc bracing: 1-43,41-43,18-19,17-18.

1 Brace at Jt(s): 27, 25, 23, 38, 36, 33, 47, 48

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

June 30,2021

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

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

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



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 34 PRESERVE
2845647	T04G	GABLE	1	1	T24526157
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:38 2021 Page 2 ID:Ad27wGdB3Dlinto_ShAPXtzIZ29-8RX7g9DjgAJiaWkWlgAevueynsy?ezk0?9NMUrz10vV

NOTES- (15)

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Ceiling dead load (5.0 psf) on member(s). 5-6, 11-12, 6-45, 45-47, 47-48, 46-48, 11-46; Wall dead load (5.0 psf) on member(s). 5-40, 12-22
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 38-40, 36-38, 34-36, 33-34, 29-33, 27-29, 25-27, 23-25, 22-23
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint 17, 234 lb uplift at joint 1, 216 lb uplift at joint 43 and 291 lb uplift at joint 18.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.
- 15) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Truss Type SIMQUE - LOT 34 PRESERVE Job Qtv Piv Truss T24526158 2845647 T05 ATTIC TRUSS Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:41 2021 Page 1 ID:Ad27wGdB3DlInto_ShAPXtzlZ29-Y0DGJBFcz5hGR_T5zojLXWGMF3vOqG2Ti7b04Az1OvS 32-0-11 16-1-13 1-0-2 Scale = 1:106.2 6x8 = 4x4 = 2x4 || 6x8 = 4x8 = 5x8 > 8.00 12 5x8 / 7 55 4x8 > 9 10 3 ⁴³8x12 = 7x8 / 11 2x4 || 2x 6x 7x8 > 11 4.00 12 8x10 > 12 0-61 1-8-0 13 0-8-0 17 39 40 29 27 25 21 18 16 15 5x8 = 6x8 = 4x8 4x8 8x10 = 4x6 = 5x8 =

32-0-11 42-9-11 15-9-3 17-9-3 19-8-4 21-8-4 23-8-4 25-8-4 27-8-4 30-0-11 2-0-0 2-0 [2:0-4-0,0-4-8], [5:0-5-4,0-3-0], [8:0-5-4,0-3-0], [11:0-4-0,0-4-8], [13:0-4-0,0-2-10], [18:0-5-0,0-5-12], [19:Edge,0-2-4], [29:0-3-12,0-6-0], [37:Edge,0-2-4], Plate Offsets (X,Y)-[42:0-3-8,0-3-0], [43:0-4-5,0-3-4] LOADING (psf) SPACING-2-0-0 CSI. DEFL. l/defl **PLATES** GRIP in (loc) L/d TCLL 20.0 Plate Grip DOL 1.00 TC 0.76 Vert(LL) -0.2438 >999 240 244/190 MT20 TCDL 7.0 Lumber DOL 1.00 BC 0.90 Vert(CT) -0.49 38-40 >633 180 BCLL 0.0 Rep Stress Incr YES WB 0.90 0.05 13 n/a n/a Horz(CT) BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Attic -0.15 19-37 1475 360 Weight: 484 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

2x4 ||

2x4 ||

5×8 =

4x6 =

2x4 ||

except

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

4x6 = 2x4 ||

LUMBER-

2x6 SP No.2 *Except* TOP CHORD

12-14: 2x4 SP No.2, 3-4,9-10: 2x8 SP 2400F 2.0E

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

28-37,19-28: 2x4 SP No.2

WEBS 2x4 SP No.3 *Except*

3-38,10-18: 2x6 SP No.2

REACTIONS. All bearings 0-3-8. (lb) - Max Horz 1=-265(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-136(LC 12), 16=-476(LC 8),

13=-329(LC 9)

Max Grav All reactions 250 lb or less at joint(s) except 1=1720(LC 20), 16=1016(LC 25), 25=2026(LC 18), 13=1287(LC 2)

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

TOP CHORD 1-2=-2777/321, 2-3=-2239/277, 3-4=-1677/341, 4-5=-917/276, 5-6=-1604/557,

6-7=-1516/606, 7-8=-1516/606, 8-9=-734/319, 9-10=-1716/354, 10-11=-2072/272,

11-12=-2368/232, 12-13=-3072/464

1-40=-186/2387, 38-40=-186/2384, 36-38=-30/2076, 34-36=0/2701, 32-34=0/2701, **BOT CHORD**

29-32=0/2701, 27-29=-32/436, 25-27=-32/436, 23-25=-54/348, 21-23=-54/348, 18-21=0/1485, 16-18=-93/2005, 15-16=-346/2898, 13-15=-355/2897, 35-37=-1351/0, 33-35=-1351/0, 31-33=-1161/0, 30-31=-263/354, 26-30=-263/354, 24-26=-49/2392,

22-24=-49/2392, 20-22=-72/1563, 19-20=-72/1563

WEBS 2-40=-37/451, 2-38=-815/297, 3-37=0/747, 18-19=-108/1157, 10-19=-69/565,

11-18=-383/226, 11-16=-561/488, 12-16=-1113/591, 12-15=-336/184, 4-44=-1225/118, 42-44=-1214/120, 42-43=-880/368, 43-45=-1669/182, 9-45=-1684/181, 24-25=-277/19,

22-23=0/282, 19-21=-1502/62, 35-36=-264/0, 33-34=-402/75, 31-32=-39/403,

26-27=-414/15, 36-37=0/1185, 5-42=-378/930, 8-43=-358/1109, 25-26=-1198/0,

22-25=-992/180, 33-36=-217/578, 29-31=-1222/15, 26-29=0/1586, 20-21=-267/106

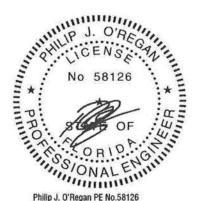
1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 16-1-13, Exterior(2R) 16-1-13 to 19-1-13, Interior(1) 19-1-13 to 29-8-2, Exterior(2R) 29-8-2 to 32-8-2, Interior(1) 32-8-2 to 51-0-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) Provide adequate drainage to prevent water ponding.

Continued on page 2



Structural wood sheathing directly applied or 2-11-0 oc purlins,

10-19, 4-42, 9-43

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

1 Brace at Jt(s): 24, 22, 35, 33, 30, 42, 43, 20

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

June 30,2021

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



Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 34 PRESERVE	T24526158
2845647	T05	ATTIC TRUSS	3	1		124020100
		3 333			Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:41 2021 Page 2 ID:Ad27wGdB3Dlinto_ShAPXtzIZ29-Y0DGJBFcz5hGR_T5zojLXWGMF3vOqG2Ti7b04Az1OvS

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

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

any other members.

8) Ceiling dead load (5.0 psf) on member(s). 3-4, 9-10, 4-44, 42-44, 42-43, 43-45, 9-45; Wall dead load (5.0 psf) on member(s). 3-37, 10-19

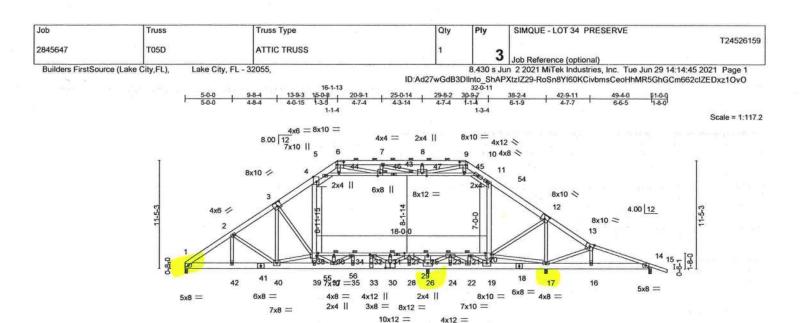
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 35-37, 33-35, 31-33, 30-31, 26-30, 24-26, 22-24, 20-22, 19-20

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 1, 476 lb uplift at joint 16 and 329 lb uplift at joint 13.

11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

12) Attic room checked for L/360 deflection.

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



15-9-3 12-0-0 2-0-0 1-11-1 2-0-0 2-0-0 2-0-0 2-4-7 2-0-0 2-0-0 38-2-4 6-1-9 42-9-11 Plate Offsets (X,Y)-[3:0-5-0,0-4-8], [4:0-5-15,Edge], [6:0-7-12,0-4-0], [9:0-7-12,0-4-0], [12:0-5-0,0-4-8], [14:0-4-0,0-2-10], [20:0-7-8,Edge], [30:0-5-12,0-6-0], [32:0-3-8,0-1-8], [38:0-2-0,Edge], [46:0-3-8,0-3-0], [47:0-6-0,0-3-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.00 0.57 Vert(LL) -0.30 37-39 >999 240 244/190 TC MT20 TCDL 7.0 Lumber DOL 1.00 BC 0.91 Vert(CT) -0.44 37-39 >708 180 BCLL 0.0 Rep Stress Incr NO WB 0.83 0.05 n/a Horz(CT) 14 n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Attic -0.16 20-38 1360 360 Weight: 1570 lb FT = 20%

2x4 ||

8x12 =

5x6 =

LUMBER-

WEBS

TOP CHORD 2x6 SP No.2 *Except*

3-6,9-12: 2x8 SP 2400F 2.0E, 13-15: 2x4 SP No.2

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

29-38,20-29: 2x4 SP M 31

WEBS 2x4 SP No.3 *Except*

4-39,11-19: 2x6 SP No.2, 25-26: 2x8 SP 2400F 2.0E

19-21,37-38,27-30,34-37,30-32,22-23: 2x4 SP M 31

REACTIONS. All bearings 0-3-8 except (jt=length) 17=0-4-2 (input: 0-3-8), 26=0-6-2 (input:

0-3-8)

Max Horz 1=-265(LC 4) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 1=-1269(LC 5), 17=-3017(LC 4),

14=-782(LC 5), 26=-3490(LC 5)

Max Grav All reactions 250 lb or less at joint(s) except 1=5961(LC 16),

17=10473(LC 17), 14=2482(LC 16), 26=15503(LC 16)

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

1-2=-9926/2156, 2-3=-10135/2281, 3-4=-8212/1895, 4-5=-5219/1268, 5-6=-1782/503,

6-7=-1685/531, 7-8=-816/522, 8-9=-816/522, 9-10=-130/802, 10-11=-5627/1373,

11-12=-8279/1985, 12-13=-4536/1060, 13-14=-6734/1769

BOT CHORD 1-42=-1874/8343, 40-42=-1874/8343, 39-40=-3540/15182, 37-39=-3521/15166, 35-37=-3639/15924, 33-35=-3639/15924, 30-33=-3639/15924, 28-30=-2906/717,

26-28=-2906/717, 24-26=-6581/1561, 22-24=-6581/1561, 19-22=-1076/355, 17-19=-351/1196, 16-17=-1586/6355, 14-16=-1598/6375, 36-38=-11775/2753,

34-36=-11775/2753, 32-34=-9556/2212, 31-32=-1509/352, 27-31=-1524/355,

25-27=-3894/17140, 23-25=-3894/17140, 21-23=-1782/7444, 20-21=-1382/5636

3-40=-568/2558, 3-38=-3716/853, 38-39=-679/2138, 4-38=-1260/5391, 19-20=-439/1578, 11-20=-150/642, 12-20=-761/2875, 13-17=-3125/972, 13-16=-188/377, 5-44=-4418/998,

44-46=-4364/988, 46-47=-5192/977, 45-47=-8150/1902, 10-45=-8261/1924,

25-26=-1857/385, 23-24=-2010/419, 21-22=-2716/581, 19-21=-475/2152,

36-37=-1023/190, 37-38=-933/3671, 34-35=-2066/461, 32-33=-848/3543, 30-31=-999/199,

27-28=-2332/500, 12-17=-6484/1795, 6-44=-55/356, 9-45=-145/733, 7-46=-12/290,

6-46=-884/222, 9-47=-572/1713, 7-47=-1583/387, 26-27=-9264/2114, 23-26=-4816/1155,

27-30=-2853/12512, 34-37=-633/2598, 30-32=-9498/2184, 38-40=-6820/1657,

17-20=-721/3031, 2-42=-343/126, 2-40=-218/509, 22-23=-1485/6500

TOP CHORD BOT CHORD

BRACING-

JOINTS

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

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

Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Brace at Jt(s): 25, 23, 21, 36, 34, 31, 46, 47

No 58126

No 58126

No 58126

Philip J. O'REG

No 58126

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

June 30,2021

A 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 shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent ucallapse 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/PHI 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 34 PRESERVE	T24526159
2845647	T05D	ATTIC TRUSS	1	3	Job Reference (optional)	12.023100
				0.400 1	a constitution to the Table 20.4	4.4.4. 0004 Dame 0

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:45 2021 Page 2 ID:Ad27wGdB3DlInto ShAPXtzIZ29-RoSn8YI60KCivbmsCeoHhMR5GhGCm662clZEDxz1OvO

NOTES- (17)

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-8-0 oc, 2x4 - 1 row at 0-4-0 oc.

- Webs connected as follows: 2x4 1 row at 0-9-0 oc, 2x6 2 rows staggered at 0-9-0 oc, 2x8 2 rows staggered at 0-9-0 oc.

 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided
- to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
 Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for via
 Provide adequate drainage to prevent water ponding.
- All plates are 3x6 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Ceiling dead load (5.0 psf) on member(s), 4-5, 10-11, 5-44, 44-46, 46-47, 45-47, 10-45; Wall dead load (5.0 psf) on member(s), 4-38, 11-20
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 36-38, 34-36, 32-34, 31-32, 27-31, 25-27, 23-25, 21-23, 20-21
- 12) WARNING: Required bearing size at joint(s) 17, 26 greater than input bearing size.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1269 lb uplift at joint 1, 3017 lb uplift at joint 17, 782 lb uplift at joint 14 and 3490 lb uplift at joint 26.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2029 lb down and 574 lb up at 32-11-4 on top chord, and 3072 lb down and 869 lb up at 13-10-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) Attic room checked for L/360 deflection.
- 17) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-4=-54, 4-5=-64, 5-6=-54, 6-9=-54, 9-10=-54, 10-11=-64, 13-15=-54, 48-55=-20, 16-55=-265(F=-245), 16-51=-20, 38-56=-40, 21-56=-285(F=-245),

20-21=-285(F=-245), 5-10=-10

Drag: 4-38=-10, 11-20=-10

Concentrated Loads (lb)

Vert: 39=-1702(F) 54=-1124

Trapezoidal Loads (plf)

Vert: 11=-201(F=-147)-to-13=-319(F=-265)

Job Truss Truss Type Qty Ply SIMQUE - LOT 34 PRESERVE T24526160 T06 2845647 Attic Truss Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:50 2021 Page 1 ID:Ad27wGdB3DlInto_ShAPXtzlZ29-olFfBGMFrsq?0Mfq?BNSOQ8sTizsRLZnm1H?v9z1OvJ 31-0-9 1-0-2 Scale = 1:113.8 6x8 = 2x4 || 6x8 = 3x4 = 8.00 12 3x4 = 9 10 11 2x4 || 2x4 || 5 2×4 8x12 = 3x6 = 7x10 > 6x8 II 13 4.00 12 5x6 > 14 18-0-0 42 19 43 41 39 37 23 18 17 5x8 = 2x4 || 6x8 = 8x10 = 3x6 || 5x8 || 4x8 = 3x6 || 5x8 = 2x4 || 5x8 ||

19-8-4 23-3-12 32-0-11 15.9-3,17.9-3, 21.8-4, 25.8-4,27.8-4,30.0-11, 35.1-7, 38.2-4, 42.9-11, 20.0, 20.0, 1-11-1, 20.0, 1-7.8, 24.8, 20.0, 24.7, 20.0, 30.13, 30.13, 47.7 [7:0-5-4,0-3-0], [10:0-5-4,0-3-0], [13:0-2-0,0-4-8], [15:0-4-0,0-2-10], [21:Edge,0-2-4], [30:0-3-0,Edge], [33:0-3-8,0-6-0], [36:0-3-8,0-1-8], [40:Edge,0-2-4], Plate Offsets (X,Y)-[47:0-3-8,0-3-0], [48:0-4-11,0-3-6] LOADING (psf) SPACING-2-0-0 CSI DEFI in (loc) I/defi L/d PLATES GRIP -0.27 41-43 TCLL 20.0 Plate Grip DOL 1.00 TC 0.92 Vert(LL) >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.00 BC 1.00 Vert(CT) -0.53 41-43 >528 180 BCLL 0.0 Rep Stress Incr NO WB 0.88 Horz(CT) 0.04 15 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-MS Attic -0.18 21-40 1251 360 Weight: 1460 lb FT = 20%

2x4 ||

8x10 =

3x6 =

3x6 ||

5x8 =

10x12 =

2x4 ||

3x6 |

3x8

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*

14-16: 2x4 SP No.2

2x8 SP 2400F 2.0E *Except* **BOT CHORD** 30-40.21-30: 2x4 SP No.2

WEBS 2x4 SP No.3 *Except*

5-41.12-20: 2x6 SP No.2

BRACING-TOP CHORD

BOT CHORD

JOINTS

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

2-0-0 oc purlins (6-0-0 max.): 7-10.

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

6-0-0 oc bracing: 29-33,27-29.25-27.23-25.

1 Brace at Jt(s): 47, 48, 28, 38, 36, 22, 24, 26

REACTIONS. All bearings 0-3-8.

Max Horz 1=-265(LC 4) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 1=-837(LC 8), 18=-2480(LC 20),

29=-452(LC 8), 15=-1033(LC 5)

Max Grav All reactions 250 lb or less at joint(s) except 1=3819(LC 2), 18=1539(LC

17), 29=4795(LC 2), 15=3297(LC 2)

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

TOP CHORD 1-2=-6257/1357, 2-4=-6519/1464, 4-5=-5434/1197, 5-6=-3581/802, 6-7=-1096/329,

7-8=-1512/646, 8-9=-1211/879, 9-10=-1211/879, 10-11=-651/591, 11-12=-3708/841,

12-13=-4809/1067, 13-14=-9850/2831, 14-15=-8581/2424

BOT CHORD 1-44=-1206/5132, 43-44=-1206/5132, 41-43=-1213/5452, 39-41=-1143/5321,

37-39=-343/3698, 35-37=-343/3698, 33-35=-343/3698, 29-33=-2029/717, 27-29=-3753/1104, 25-27=-3753/1104, 23-25=-446/920, 20-23=-596/3330

18-20=-1563/6203, 17-18=-1566/6211, 15-17=-2217/8099, 38-40=-3929/712, 36-38=-3929/712, 34-36=-545/1295, 32-34=-1468/6057, 28-32=-1765/8471,

26-28=-1765/8471, 24-26=-1259/4411, 22-24=-1259/4411, 21-22=-1259/4411

2-44=-441/191, 2-43=-299/503, 4-43=-515/1826, 4-41=-2282/743, 40-41=-562/1419,

5-40=-732/2894, 20-21=-1178/3996, 12-21=-537/1999, 13-20=-2981/1135, 13-17=-1045/3244, 14-17=-2752/800, 6-46=-3203/824, 46-47=-3183/823,

47-48=-2820/864, 48-49=-4495/1201, 11-49=-4526/1206, 13-18=-1356/2328, 7-47=-558/726, 8-48=-556/156, 10-48=-441/1340, 28-29=-389/0, 38-39=-261/0, 36-37=-2590/671, 34-35=-568/3023, 32-33=-281/1795, 22-23=-257/0, 24-25=-336/0,

26-27=-1810/344, 29-32=-3024/370, 26-29=-817/0, 21-23=-4268/1240, 39-40=-418/3070,

36-39=-1431/5191, 33-34=-6661/1122, 25-26=-700/3998

NOTES. (17)

WEBS

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 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, 2x6 - 2 rows staggered 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



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

June 30,2021

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

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



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 34 PRESERVE	
BAT (2-1)	Tp-Catherina	NAME OF STREET		1000		T24526160
2845647	T06	Attic Truss	1	2	Marian W. Carlotta A.	
10.000000000	Process.		25	3	Job Reference (optional)	
Buildon First Source (Lake City FL) Lake City FL 22055				8 430 e lu	n 2 2021 MiTak Industries Inc. Tue Jun 20 14	14-50 2021 Page 2

lers FirstSource (Lake City,FL),

Lake City, FL - 32055,

ID:Ad27wGdB3DlInto_ShAPXtzlZ29-olFfBGMFrsq?0Mfq?BNSOQ8sTizsRLZnm1H?v9z1OvJ

- 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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are 4x6 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Ceiling dead load (5.0 psf) on member(s). 5-6, 11-12, 6-46, 46-47, 47-48, 48-49, 11-49; Wall dead load (5.0 psf) on member(s). 5-40, 12-21
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 38-40, 36-38, 34-36, 32-34, 28-32, 26-28, 24-26, 22-24, 21-22 (2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 837 lb uplift at joint 1, 2480 lb uplift at joint 18, 452 lb uplift at joint 29 and 1033 lb uplift at joint 15.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) This truss has large uplift reaction at jt. 18 from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3690 lb down and 1183 lb up at 13-8-3, 489 lb down at 15-8-10, and 489 lb down at 17-8-10, and 489 lb down at 19-8-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) Attic room checked for L/360 deflection.
- 17) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-5=-54, 5-6=-64, 6-7=-54, 7-10=-54, 10-11=-54, 11-12=-64, 12-14=-54, 14-16=-54, 50-53=-20, 21-40=-40, 6-11=-10

Drag: 5-40=-10, 12-21=-10

Concentrated Loads (lb)

Vert: 41=-3690(B) 39=-119(B) 37=-119(B) 35=-119(B)

Job Truss Truss Type Qty SIMQUE - LOT 34 PRESERVE Ply T24526161 5 2845647 T07 ATTIC TRUSS 1 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:53 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055 ID:Ad27wGdB3Dllnto_ShAPXtzlZ29-CKxoqHP78nCZtqNPgJx902mMrv21eiJES?VfWTz1OvG 16-1-13 13-9-3 5-10-3 31-0-9 34-2-7 36-8-15 1-4-7 3-1-14 2-6-8 1-0-31-4-7 29-8-2 4-7-4 Scale = 1:84.8 5x8 = 444 = 2x4 || 5x8 = 6 46 748 8.00 12 47 8 3x4 = 2x4 || 9 7x8 2x4 || 49 38 36 8x12 = 10 50 2x4 || 3x6 = 7x8 / 6x8 II 0-8-0 22 35 33 31 30 28 26 24 20 18 16 13 12 3x6 = 6x8 = 3x6 II 3x6 | 4x6 = 12x14 = 4x6 = 8x12 = 3x6 | I |8x12 = 4x8 = 2x4 || 2x4 || 3x8 4x6 = 3x6 | 13x6 || 4x12 || 4x4 = 23-4-0 22-10-15 | 22-10-4 | 25-0-7 | 27-1-15 | 30-1-3 | 32-2-11 | 34-2-7 | 36-8-15 | 2-0-13 | 1-8-7 | 2-1-8 | 2-11-4 | 2-1-8 | 1-11-12 | 2-6-8 | 15-10-11 18-0-3 20-9-7 2-1-8 2-1-8 2-9-4 0-0-11 [2:0-4-0,0-4-8], [5:0-5-4,0-2-12], [8:0-5-8,0-2-12], [11:Edge,0-2-12], [13:0-7-0,0-6-4], [15:0-3-8,0-1-8], [27:0-3-8,0-1-8], [29:0-3-8,0-2-8], [31:0-6-0,0-6-0], Plate Offsets (X.Y)-[34:0-3-12,0-2-8], [38:0-3-8,0-3-0], [39:0-6-0,0-3-6] LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/defi **PLATES** GRIP 20.0 Plate Grip DOL 1.00 Vert(LL) -0.31 33-35 >896 240 244/190 TCLL TC 0.92 MT20 TCDL 1.00 BC 0.72 -0.63 33-35 180 7.0 Lumber DOL Vert(CT) >437 0.0 WB 0.88 BCLL Rep Stress Inc. YES Horz(CT) 0.01 26 n/a n/a

LUMBER-

BCDL

TOP CHORD 2x6 SP No.2

10.0

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

19-34: 2x4 SP M 31, 14-19: 2x4 SP No.2

WEBS 2x4 SP No.3 *Except*

3-33,10-13,11-12,25-26: 2x6 SP No.2 31-34,13-15,16-17,21-24,29-31: 2x4 SP No.2 BRACING-TOP CHORD

0.18 14-34

1390

BOT CHORD WEBS JOINTS

Structural wood sheathing directly applied or 5-3-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-1 max.): 5-8. Rigid ceiling directly applied or 6-0-0 oc bracing.

Weight: 399 lb

FT = 20%

1 Row at midpt 2-33, 3-34

360

1 Brace at Jt(s): 38, 39, 25, 15, 27, 23, 17, 32, 21, 29

REACTIONS.

(size) 1=Mechanical, 12=Mechanical, 26=0-3-8

Code FBC2020/TPI2014

Max Horz 1=290(LC 12)

Max Uplift 1=-118(LC 12), 12=-76(LC 13)

Max Grav 1=1112(LC 1), 12=1242(LC 27), 26=2578(LC 20)

TOP CHORD

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-1708/150, 2-3=-973/139, 3-4=-836/182, 4-5=-1100/303, 5-6=-1879/591,

6-7=-1854/632, 7-8=-1854/632, 8-9=-1040/376, 9-10=-935/189, 10-11=-576/14,

11-12=-1906/39

BOT CHORD

WEBS

1-35=-301/1355, 33-35=-301/1350, 31-33=-145/1162, 30-31=-940/299, 28-30=-940/299, 26-28=-940/299, 24-26=-2853/626, 20-24=-1661/666, 18-20=-1661/666, 16-18=-1661/666,

Matrix-MS

13-16=-1142/493, 32-34=-1123/81, 29-32=-1098/85, 27-29=-332/1496, 25-27=-525/4239, 23-25=-525/4239, 21-23=-659/3433, 17-21=-699/2214, 15-17=-526/1696, 14-15=-78/445

2-35=-97/635, 2-33=-960/348, 33-34=-557/100, 3-34=-312/209, 13-14=-867/193,

10-14=-846/268, 4-37=-267/432, 37-38=-264/436, 38-39=-576/1294, 39-40=-343/332,

9-40=-350/326, 11-13=-74/1816, 5-38=-409/992, 8-39=-352/1102, 25-26=-263/0, 31-34=0/656, 13-15=-512/1429, 26-27=-3162/223, 23-26=-1044/0, 16-17=-200/598,

31-32=-315/0, 15-16=-829/214, 17-18=-462/46, 27-28=-139/1174, 23-24=0/340,

20-21=-21/587, 21-24=-1847/0, 29-30=-1645/193, 29-31=-487/3032

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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 16-1-13, Exterior(2R) 16-1-13 to 20-4-11, Interior(1) 20-4-11 to 29-8-2, Exterior(2R) 29-8-2 to 33-11-1, Interior(1) 33-11-1 to 36-6-3 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.



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

June 30,2021

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 izdividual 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 very longer than the overall building designer must be signed at the overall building designer must be signed at the overall building component at the overall building designer must be signed at the overall building designer must be overall building designer must be overall building component at the overall building designer must be overall building component building designer must be overall building component building component building designer must be overall building designer being designer and building designer must be overall building designer and building designer must be overall building designer being designer bein



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 34 PRESERVE
2845647	то7	ATTIC TRUSS	5	,	T24526161
2045047	107	ATTIC TRUSS	3		Job Reference (optional)

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2.2021 MiTek Industries, Inc. Tue Jun 29.14:14:53.2021 Page 2 ID:Ad27wGdB3Dllnto_ShAPXtzlZ29-CKxoqHP78nCZtqNPgJx902mMrv21eiJES?VfWTz10vG

NOTES-

- 7) Ceiling dead load (5.0 psf) on member(s), 3-4, 9-10, 4-37, 37-38, 38-39, 39-40, 9-40; Wall dead load (5.0 psf) on member(s), 3-34, 10-14
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 32-34, 29-32, 27-29, 25-27, 23-25, 21-23, 17-21, 15-17, 14-15

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

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 1 and 76 lb uplift at joint 12.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

12) Attic room checked for L/360 deflection.

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

Job Truss Truss Type Qty Ply SIMQUE - LOT 34 PRESERVE T24526162 2845647 T07G GABLE Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:56 2021 Page 1 ID:Ad27wGdB3DlInto_ShAPXtzlZ29-cvdxSJR0Ria8kH6_MSUsegOwK6EZr4Rg8zkJ6oz1OvD 15-3-19 Scale = 1:89 9 4×4 = 5x8 = 8.00 12 3x4 = 7 53 3x4 = 10 54 43 41 7x8 > 11 4x8 / 12 4x6 / 6x8 II 3-4-8 4x8 / 37 31 24 22 17 14 13 20 6x8 = 3x6 | 4x6 = 12x14 3x6 || 3x6 || 3x6 || 4x6 = 5x8 | 13x6 || 4x6 = 3x6 = 8x10 = 3x4 =3x4 = 3x4 =3x6 н 3x6 3x6 || 4x8 = 3x6 II 3x4 = 3x4 = 2-10-4 | 25-0-7 | 27-1-15 | 30-1-3 0-13 | 2-1-8 | 2-1-8 | 2-11-4 0-0-11 13-9-3 15-10-11 18-0-3 20-9-7 2-1-8 2-1-8 2-9-4 Plate Offsets (X,Y)- [6:0-5-4,0-2-12], [9:0-5-4,0-2-12], [32:0-5-0,0-6-0], [35:0-4-0,0-2-4], [44:0-4-6,0-3-8] LOADING (psf) SPACING-2-0-0 CSI DEFL l/defl L/d **PLATES** GRIP

Plate Grip DOL TCLL 20.0 1.00 TC 0.71 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 7.0 Lumber DOL 1.00 BC 0.09 Vert(CT) n/a n/a 999 0.0 BCII Rep Stress Incr YES WB 0.79 Horz(CT) 0.01 13 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-S Weight: 417 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

TOP CHORD 2x6 SP No.2 BOT CHORD 2x8 SP 2400

2x8 SP 2400F 2.0E *Except*

27-35,15-27: 2x4 SP No.2

WEBS 2x4 SP No.3 *Except*

4-34,11-14,12-13: 2x6 SP No.2

OTHERS 2x4 SP No.3

REACTIONS. All bearings 36-8-15.

(lb) - Max Horz 1=286(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 40, 39 except 38=-158(LC 12),

34=-156(LC 12), 14=-895(LC 1), 13=-332(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 26, 24, 32, 40, 39, 37, 36, 28,

22, 17, 19, 31 except 1=484(LC 1), 38=587(LC 1), 34=472(LC 24), 14=401(LC 9), 13=1836(LC 1)

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

TOP CHORD 1-2=-673/188, 2-4=-781/252, 4-5=-820/232, 5-6=-946/276, 6-7=-1672/515,

7-8=-1722/511, 8-9=-1722/511, 9-10=-1074/286, 10-11=-880/216, 11-12=-580/120,

12-13=-1777/329

BOT CHORD 1-40=-139/471, 39-40=-139/471, 38-39=-139/471, 37-38=-139/471, 36-37=-139/471,

34-36=-139/471, 32-34=-104/566, 31-32=-76/427, 28-31=-76/427, 26-28

24-26=-78/433, 22-24=-67/391, 19-22=-67/391, 17-19=-67/391, 14-17=-77/432 2-38=-533/171, 34-35=-498/80, 4-35=-508/161, 14-15=-697/116, 11-15=-679/176

5-42=-164/310, 42-43=-161/316, 43-44=-423/1160, 44-45=-114/402, 10-45=-117/397,

12-14=-297/1656, 6-43=-324/942, 9-44=-310/828

NOTES- (15)

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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-3 to 3-5-3, Interior(1) 3-5-3 to 16-8-2, Exterior(2R) 16-8-2 to 19-8-2, Interior(1) 19-8-2 to 29-1-13, Exterior(2R) 29-1-13 to 32-1-13, Interior(1) 32-1-13 to 36-6-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.

8) Gable studs spaced at 2-0-0 oc.

Continued on page 2



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

except end verticals, and 2-0-0 oc purlins (5-5-0 max.): 6-9.

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

1 Brace at Jt(s): 43, 44, 25, 23, 33, 16, 29, 21, 18, 30

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

June 30,2021

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

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



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 34 PRESERVE	24526462
2845647	T07G	GABLE	1	4		24526162
					Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:56 2021 Page 2 ID:Ad27wGdB3Dlinto_ShAPXtzlZ29-cvdxSJR0Ria8kH6_MSUsegOwK6EZr4Rg8zkJ6oz1OvD

NOTES- (15)

- 10) * 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.
- 11) Ceiling dead load (5.0 psf) on member(s). 4-5, 10-11, 5-42, 42-43, 43-44, 44-45, 10-45; Wall dead load (5.0 psf) on member(s).4-35, 11-15
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 40, 39 except (jt=lb) 38=158, 34=156, 14=895, 13=332.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.
- 15) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek

Qty Job Truss Truss Type Ply SIMQUE - LOT 34 PRESERVE T24526163 T08 Attic Truss 2845647 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:59 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, $ID: Ad27wGdB3DIInto_ShAPXtzIZ29-1UI34LTujdyjblrZ1a2ZGJ0OJK5Q2Qr6qxyzj7z1OvA$ 16-1-13 Scale = 1:84.8 5x8 = 4x4 = 2x4 || 5x8 = 6 46 748 3v4 = 8.00 12 2x4 || 7x8 > 3 2x4 || 49 37 39 36 8x12 = 10 50 2x4 || 3x6 = 7x8 % 6x8 || 20-3 0-8-0 35 26 20 16 12 33 31 30 13 18 $4x6 = 3x6 \parallel 3x6$ = 3x6 II 8x12 = 3x6 || 8x12 = 4x6 = 12x14 = 4x8 = 2x4 || 3x6 II 2x4 || 3x8 = 6x8 = 3x6 || 3x4 = 4x12 || 22-10-15 13-9-3 15-10-11 18-0-3 20-9-7 | 22-10-4 | 25-0-7 | 27-1-15 | 30-1-3 | 32-2-11 | 34-2-7 | 36-8-15 | 20-13 | 2-1-8 | 2-1-8 | 2-11-4 | 2-1-8 | 1-11-12 | 2-6-8 | [2:0-4-0,0-4-8], [5:0-5-4,0-2-12], [8:0-5-8,0-2-12], [11:Edge,0-2-12], [13:0-7-0,0-6-4], [15:0-3-8,0-1-8], [27:0-3-8,0-1-8], [29:0-3-8,0-2-8], [31:0-6-0,0-6-0], Plate Offsets (X,Y)-[34:0-3-12,0-2-8], [39:0-3-8,0-3-0], [40:0-6-0,0-3-1] SPACING-CSL DEFL 1 /d PLATES GRIP LOADING (psf) 2-0-0 in (loc) I/defl 244/190 TCLL 20.0 Plate Grip DOL 1.00 TC 0.92 Vert(LL) -0.31 33-35 >898 240 MT20 TCDL 7.0 Lumber DOL 1.00 BC 0.72 Vert(CT) -0.63 33-35 >438 180 WB 0.87 0.01 BCIL 00 Rep Stress Incr YES Horz(CT) 26 n/a n/a Code FBC2020/TPI2014 FT = 20% Matrix-MS 0.18 14-34 1399 360 Weight: 399 lb BCDL 10.0 Attic BRACING-LUMBER-TOP CHORD 2x6 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-3-0 oc purlins, 2x8 SP 2400F 2.0E *Except* except end verticals, and 2-0-0 oc purlins (5-2-1 max.): 5-8. BOT CHORD 19-34: 2x4 SP M 31, 14-19: 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. 2x4 SP No.3 *Except* WEBS 1 Row at midpt 2-33, 3-34 WEBS 3-33,10-13,11-12,25-26: 2x6 SP No.2 **JOINTS** 1 Brace at Jt(s): 39, 40, 25, 23, 27, 32, 21, 15, 17, 29

31-34.21-24.13-15.16-17.29-31: 2x4 SP No.2

REACTIONS. (size) 1=Mechanical, 12=Mechanical, 26=0-3-8

Max Horz 1=290(LC 12)

Max Uplift 1=-117(LC 12), 12=-76(LC 13)

Max Grav 1=1112(LC 1), 12=1241(LC 27), 26=2579(LC 20)

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

1-2=-1707/150, 2-3=-973/139, 3-4=-836/182, 4-5=-1100/303, 5-6=-1878/590,

6-7=-1854/632, 7-8=-1854/632, 8-9=-1040/376, 9-10=-935/189, 10-11=-576/14,

BOT CHORD 1-35=-301/1354, 33-35=-300/1350, 31-33=-145/1161, 30-31=-950/302, 28-30=-950/302, 26-28=-950/302, 24-26=-2861/629, 20-24=-1677/670, 18-20=-1677/670, 16-18=-1677/670,

13-16=-1147/495, 32-34=-1116/79, 29-32=-1092/82, 27-29=-335/1504, 25-27=-529/4248,

23-25=-529/4248, 21-23=-662/3440, 17-21=-703/2230, 15-17=-528/1701, 14-15=-78/446

2-35=-96/633, 2-33=-958/347, 33-34=-555/100, 3-34=-313/209, 13-14=-866/193,

10-14=-845/268, 4-37=-267/430, 37-39=-264/435, 39-40=-576/1293, 38-40=-343/332,

9-38=-350/326, 11-13=-74/1816, 5-39=-409/992, 8-40=-352/1102, 25-26=-262/0, 23-24=0/338, 26-27=-3163/223, 23-26=-1045/0, 27-28=-139/1174, 31-32=-315/0,

31-34=0/653, 20-21=-20/585, 21-24=-1840/0, 15-16=-832/214, 13-15=-514/1434,

17-18=-466/48, 16-17=-202/610, 29-30=-1646/193, 29-31=-488/3033

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=22ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 16-1-13, Exterior(2R) 16-1-13 to 20-4-11, Interior(1) 20-4-11 to 29-8-2, Exterior(2R) 29-8-2 to 33-11-1, Interior(1) 33-11-1 to 36-6-3 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.



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

June 30,2021

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 34 PRESERVE	T24526163
2845647	T08	Attic Truss	1	1		124520105
2010011	1.77	Lance Angula 6		1137	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:14:59 2021 Page 2 ID:Ad27wGdB3DlInto_ShAPXtzlZ29-1UI34LTujdyjblrZ1a2ZGJ00JK5Q2Qr6qxyzj7z1OvA

NOTES-(13)

7) Ceiling dead load (5.0 psf) on member(s). 3-4, 9-10, 4-37, 37-39, 39-40, 38-40, 9-38; Wall dead load (5.0psf) on member(s).3-34, 10-14

8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 32-34, 29-32, 27-29, 25-27, 23-25, 21-23, 17-21, 15-17, 14-15

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

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 1=117.

11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 12) Attic room checked for L/360 deflection.

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



Qty SIMOUE - LOT 34 PRESERVE Job Truss Truss Type Ply T24526164 2845647 T09 ATTIC TRUSS 3 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:03 2021 Page 1 ID:Ad27wGdB3Dlinto_ShAPXtzlZ29-vFYawiWPnsT84M8KGQ6VQ9BBfxQD_FNilYwBsuz10v6 16-1-13 20-0-10 25-0-14 0-0-10 4-3-13 14-71-0-1 Scale = 1:84.1 5x8 = 4x4 = 5x8 = 7 10 ¹¹ 3x4 = 3x4 = 8.00 12 13 39 40 38 42 8x12 = 5x8 > 4x6 / 3x6 = 6x8 II 4x8 / 4x6 4 6-8-11 18-0-0 O-B-O 37 36 35 32 29 15 26 16 3x6 3x6 || 7x10 = 3x10 || 8x10 = 3x6 || 4x12 || 4x6 = 8x10 = 3x6 || 4x8 = 4x12 = 4x6 = 3x4 = 6x8 = 22-10-15 13-9-3 15-10-11 18-0-3 20-8-7 | 22-10-4 | 25-1-7 | 27-2-15 | 29-11-3 | 32-0-11 | 2-1-13 | 2-2-8 | 2-1-8 | 2-8-4 | 2-1-8 | 0-0-11 [7:0-5-4,0-2-12], [11:0-2-4,0-2-12], [16:0-5-0,0-5-12], [17:Edge,0-2-4], [30:0-3-8,0-2-0], [32:0-5-0,0-6-0], [34:0-2-0,Edge], [35:0-6-4,0-1-8], [40:0-3-8,0-3-0] Plate Offsets (X,Y)-[41:0-3-13.0-3-7] LOADING (psf) SPACING-CSI. DEFL. PLATES GRIP 2-0-0 in (loc) I/defl L/d 20.0 Plate Grip DOL TCLL 1.00 TC 0.51 Vert(LL) -0.2135 >999 244/190 240 MT20 7.0 0.92 TCDL Lumber DOL 1.00 BC -0.4035 >695 Vert(CT) 180 BCLL 0.0 Rep Stress Incr WB 0.78 NO 0.03 Horz(CT) 26 n/a n/a 10.0 Code FBC2020/TPI2014 BCDL Matrix-MS 0.12 17-34 Weight: 1244 lb FT = 20%Attic 1812 360 LUMBER-**BRACING-**TOP CHORD 2x6 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x8 SP 2400F 2.0E *Except* except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-11. 25-34,17-25: 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS 2x4 SP No.3 *Except* **JOINTS** 1 Brace at Jt(s): 40, 41, 27, 23, 20, 28, 33, 30, 18 5-35,13-16,14-15,26-27: 2x6 SP No.2 17-19,32-34,26-28,23-26,20-24,30-32: 2x4 SP No.2 REACTIONS. 1=Mechanical, 15=Mechanical, 26=0-3-8 Max Horz 1=290(LC 28) Max Uplift 1=-721(LC 8), 15=-1094(LC 9), 26=-658(LC 8) Max Grav 1=3076(LC 1), 15=3893(LC 21), 26=5010(LC 22)

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

TOP CHORD 1-2=-4990/1168, 2-4=-5050/1234, 4-5=-2686/777, 5-6=-1942/569, 6-7=-1170/324,

7-8=-1734/595, 8-9=-1434/707, 9-10=-1434/707, 10-11=-508/501, 11-12=-636/445,

12-13=-2025/603, 13-14=-2334/659, 14-15=-4086/1111

BOT CHORD 1-37=-1182/4074, 36-37=-1182/4074, 35-36=-3354/12528, 32-35=-3350/12627,

31-32=-629/3517, 29-31=-629/3517, 26-29=-629/3517, 24-26=-3524/919, 21-24=-1129/453, 19-21=-1129/453, 16-19=-448/1589, 33-34=-8751/1958, 30-33=-8726/1961, 28-30=-1670/148, 27-28=-1361/6135, 23-27=-1361/6135,

20-23=-1399/5370, 18-20=-933/3044, 17-18=-933/3044

WEBS 2-37=-258/151, 2-36=-286/352, 4-36=-888/3305, 4-34=-3303/992, 34-35=-928/2226,

5-34=-506/1225, 16-17=-782/1838, 13-17=-500/662, 6-39=-1108/573, 39-40=-1098/575, 40-41=-1405/1054, 41-42=-1817/605, 12-42=-1818/605, 14-16=-847/3386, 23-24=-39/292, 20-21=-288/1089, 17-19=-2970/947, 28-29=-802/3711, 32-33=-312/0, 32-34=-3058/1055, 7-40=-485/726. 8-41=-341/186. 10-41=-398/1263. 26-28=-8915/1724. 23-26=-912/0.

20-24=-2789/537, 30-31=-4132/973, 30-32=-2118/8246, 34-36=-8825/2300, 18-19=-295/0

NOTES- (17)

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

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

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60

5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific



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

June 30,2021

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 34 PRESERVE	T24526164
2845647	Т09	ATTIC TRUSS	1	3	Job Reference (optional)	12.020101
	0. 50	07 51 20055		0.420 - 1	2 2004 M.TIt Industries Jos. Tue Jun 20 14	1:1E:04:2021 Base 3

Builders FirstSource (Lake City.FL),

Lake City, FL - 32055,

ID:Ad27wGdB3DlInto_ShAPXtzIZ29-NS6y72X1Y9b?hWjWq7ekzMjMPLISjhdr_CgkOLz1Ov5

NOTES- (17)

- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Ceiling dead load (5.0 psf) on member(s). 5-6, 12-13, 6-39, 39-40, 40-41, 41-42, 12-42; Wall dead load (5.0 psf) on member(s).5-34, 13-17
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 33-34, 30-33, 28-30, 27-28, 23-27, 20-23, 18-20, 17-18
- 12) Refer to girder(s) for truss to truss connections.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=721, 15=1094, 26=658.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3725 lb down and 1195 lb up at 13-10-15, 489 lb down at 17-8-10, and 3287 lb down and 1193 lb up at 32-1-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) Attic room checked for L/360 deflection.
- 17) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-5=-54, 5-6=-64, 6-7=-54, 7-11=-54, 11-12=-54, 12-13=-64, 13-14=-54, 15-43=-20, 17-34=-40, 6-12=-10

Drag: 5-34=-10, 13-17=-10

Concentrated Loads (lb)

Vert: 35=-3725(F) 16=-3287(F) 32=-119(F) 31=-119(F)



SIMQUE - LOT 34 PRESERVE Job Truss Truss Type Qty Ply T24526165 2845647 T10 Monopitch Truss Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:04 2021 Page 1 ID:Ad27wGdB3Dllnto_ShAPXtzlZ29-NS6y72X1Y9b?hWjWq7ekzMjMVLtqjqjr_CgkOLz1Ov5 13-7-14 Scale = 1:54.9 2x4 || 8.00 12 3x6 / 3x6 / 7 3x4 = 62x4 || 3x6 || H

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	0.50	Vert(LL)	0.06	7-10	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.10	6-7	>999	180	**************************************	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	-0.02	1	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS						Weight: 80 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.3 WEBS

SLIDER Left 2x4 SP No.3 1-6-0

REACTIONS.

(size) 1=0-3-8, 6=Mechanical

Max Horz 1=319(LC 12)

Max Uplift 1=-27(LC 12), 6=-256(LC 12) Max Grav 1=500(LC 1), 6=528(LC 19)

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

TOP CHORD

1-3=-567/0

BOT CHORD

WEBS

1-7=-225/445, 6-7=-225/445 3-7=0/307, 3-6=-543/275

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-6-2 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) 1 except (jt=lb) 6=256.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

5-6, 3-6

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

except end verticals.

1 Row at midpt

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

June 30,2021

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6904 Parke East Blvd. Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 34 PRESERVE
2845647	T11	MONOPITCH TRUSS	4	1	124520100
	A				Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:05 2021 Page 1 ID:Ad27wGdB3DlInto_ShAPXtzIZ29-refKLOYfJTjsJgliNr9zVaGaDlGZSl8?DsPlxnz1Ov4

Structural wood sheathing directly applied or 4-6-14 oc purlins,

2-3

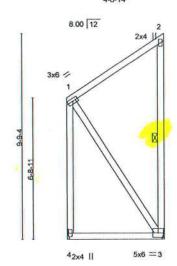
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

1 Row at midpt

4-6-14 4-6-14

Scale = 1:52.4



4-6-14

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	0.31	Vert(LL)	-0.02	3-4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.04	3-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	-0.00	3	n/a	n/a	NO. 2017/10 TO BE STORE OF THE	
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP	1000 to 00000000000000000000000000000000					Weight: 49 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

(size) 4=Mechanical, 3=Mechanical

Max Horz 4=101(LC 12) Max Uplift 3=-232(LC 12)

Max Grav 4=196(LC 21), 3=208(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-3=-159/291

WERS

NOTES-1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-5-2 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) except (jt=lb)

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



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

June 30,2021

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6904 Parke East Blvd

Job Truss Truss Type Qty Ply SIMQUE - LOT 34 PRESERVE T24526167 2845647 T12 QUEENPOST Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:06 2021 Page 1 Lake City, FL - 32055, Builders FirstSource (Lake City,FL), ID:Ad27wGdB3DlInto_ShAPXtzlZ29-KqDjYkZH4nrjxqtvxYgC2noj38VWBkZ8SW9rTDz1Ov3 5x6 = Scale = 1:39.3 8.00 12 2x4 > 2x4 / 6-1-7 19 9 3x8 = 3x8 = 3x6 = 9-3-1 18-6-2 Plate Offsets (X,Y)-[2:0-5-2,0-0-0], [6:0-5-2,0-0-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL I/defl L/d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.44 Vert(LL) -0.09 9-12 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.69 Vert(CT) -0.19 9-12 >999 180 BCLL 00 Rep Stress Incr YES WB 0.24 Horz(CT) 0.07 Code FBC2020/TPI2014 BCDL 10.0 Matrix-MS Weight: 100 lb FT = 20%

LUMBER-

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

BRACING-

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

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

REACTIONS.

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

Max Horz 1=-138(LC 8)

Max Uplift 1=-137(LC 12), 7=-140(LC 13)

Max Grav 1=689(LC 1), 7=679(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-408/139, 2-3=-1019/242, 3-4=-772/208, 4-5=-772/208, 5-6=-1018/243,

TOP CHORD

6-7=-373/85

BOT CHORD 2-9=-223/879, 6-9=-148/874

WEBS

3-9=-393/203, 4-9=-134/618, 5-9=-381/196

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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-8 to 3-1-8, Interior(1) 3-1-8 to 9-3-1, Exterior(2R) 9-3-1 to 12-3-1, Interior(1) 12-3-1 to 18-4-10 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.
- 6) Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

June 30,2021

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SIMQUE - LOT 34 PRESERVE Job Truss Truss Type Qty Ply T24526168 2845647 T12D Roof Special Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:07 2021 Page 1 ID:Ad27wGdB3DlInto_ShAPXtzIZ29-o1n5m4Zvr4zaYzS5VGBRa?LumYsmw7kIgAuO?fz10v2 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 13-2-9 19-2-10 3-11-8 3-11-8 Scale = 1:40.5 5x6 = 16 2x4 > 3x4 > 5 3 4x4 = 5x6 = TAI 94-14 141 9 11 10 2x4 || 3x8 3x10 = 3x6 = 3x8 = 0-10-6 19-2-10 18-3-1 [2:0-5-2,Edge] Plate Offsets (X,Y)-LOADING (psf) SPACING-2-0-0 DEFL in (loc) **PLATES** GRIP 20.0 Plate Grip DOL 1.25 TC Vert(LL) -0.10 11-14 >999 240 MT20 244/190 TCLL 0.44 BC 0.62 Vert(CT) -0.22 11-14 >999 180 TCDL 7.0 Lumber DOL 1.25 0.0 Rep Stress Incr YES WB 0.50 Horz(CT) 0.05 n/a BCLL 8 n/a Matrix-MS BCDL 10.0 Code FBC2020/TPI2014 Weight: 114 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*

6-7: 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

WEBS 2x4 SP No.3

REACTIONS. (size) 1=0-3-8, 8=Mechanical

Max Horz 1=135(LC 12) Max Uplift 1=-138(LC 12), 8=-154(LC 13) Max Grav 1=713(LC 1), 8=701(LC 1)

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

TOP CHORD 1-2=-398/78, 2-3=-1060/239, 3-4=-814/206, 4-5=-797/204, 5-6=-1472/313,

6-7=-1171/232

BOT CHORD 2-11=-272/911, 9-11=-202/955 3-11=-390/205, 4-11=-128/627, 5-11=-423/189, 7-8=-669/159, 6-9=-886/226, WEBS

7-9=-258/1304, 5-9=-97/490

NOTES-(10)

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

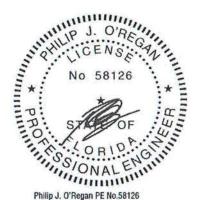
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-3-1, Exterior(2R) 9-3-1 to 12-3-1, Interior(1) 12-3-1 to 19-0-14 zone; C-C 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) 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.

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

- 8) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=138, 8=154,
- 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Structural wood sheathing directly applied or 5-1-11 oc purlins.

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

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

June 30,2021

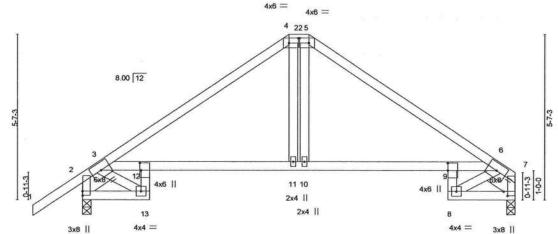
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE Mtl-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly and permanent bracing fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Type Qty SIMQUE - LOT 34 PRESERVE Truss Ply T24526169 2845647 T14 HIP TRUSS Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries. Inc. Tue Jun 29 14:15:09 2021 Page 1 ID:Ad27wGdB3Dlinto_ShAPXtzlZ29-kPvrBmbANhDloHcUcgDvgQQ7RMUWO4ia8UNV4Yz1Ov0





		1	2-3-8		'-0-0	7-8-0		12-4-8	3		14-8-0	-1	
			2-3-8	4	-8-8	0-8-0		4-8-8	i		2-3-8	1	
Plate Offse	ets (X,Y)-	[2:0-1-12,0-0-2], [4:0-3-1:	2,0-2-0], [5:0-3	-12,0-2-0], [7:	0-1-12,0-1-	10], [9:0-3-0,0-0-0]	, [12:0-3	-0,0-0-	B]				
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PI	LATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.81	Vert(LL)	0.19	11-12	>931	240	M	T20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.29	9-10	>610	180	7,077		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.16	7	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matrix	-MS	2100000-000000					W	eight: 80 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

12-13,8-9: 2x4 SP No.3, 3-6: 2x4 SP M 31

WEBS 2x4 SP No.3

SLIDER Left 2x6 SP No.2 1-0-0, Right 2x6 SP No.2 1-0-0

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

Max Horz 2=123(LC 24) Max Uplift 7=-430(LC 9), 2=-469(LC 8)

Max Grav 7=1002(LC 1), 2=1102(LC 1)

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

TOP CHORD 3-19=-345/180, 3-4=-1637/783, 4-5=-1325/712, 5-6=-1635/804, 6-7=-322/158

BOT CHORD 2-13=-375/685, 12-13=-223/428, 3-12=-502/1120, 11-12=-610/1304, 10-11=-618/1325,

9-10=-605/1304, 6-9=-543/1132, 8-9=-194/432, 7-8=-332/686

4-11=-370/717, 5-10=-386/710, 3-13=-596/331, 6-8=-602/290 WEBS

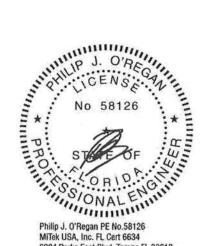
NOTES-

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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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) 7=430, 2=469
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 92 lb down and 86 lb up at 7-0-0, and 92 lb down and 86 lb up at 7-8-0 on top chord, and 407 lb down and 296 lb up at 7-0-0, and 407 lb down and 296 lb up at 7-7-4 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).
- 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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



Structural wood sheathing directly applied or 3-1-0 oc purlins.

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

9-8-0 oc bracing: 9-10

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June 30,2021

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 34 PRESERVE	
2845647	T14	HIP TRUSS	1	1		T24526169
20,001			3"		Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:09 2021 Page 2 ID:Ad27wGdB3DlInto_ShAPXtzlZ29-kPvrBmbANhDloHcUcgDvgQQ7RMUW04ia8UNV4Yz10v0

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-54, 4-5=-54, 5-7=-54, 13-18=-20, 9-12=-20, 8-14=-20

Concentrated Loads (lb)

Vert: 4=-62(F) 5=-62(F) 11=-402(F) 10=-402(F)



Job Truss Truss Type Qty SIMQUE - LOT 34 PRESERVE T24526170 T15 SPECIAL TRUSS 3 2845647 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:10 2021 Page 1 ID:Ad27wGdB3Dlinto_ShAPXtzIZ29-CbTDO5co8?L9PRBgAOk8CdzQSmq77XekM873c_z1Ov? -1-8-07-4-0 12-4-8 14-8-0 5-0-8 5-0-8 Scale = 1:36 6 4x4 = 5 8.00 12 8x12 // 8x12 > 4x4 / 4x4 > 10 11 3x6 4x8 = 13 9 3x4 || 3x4 II 3x8 || 7-4-0 14-8-0 [2:0-5-0,0-0-2], [4:0-5-14,0-3-7], [6:0-5-14,0-3-7], [8:0-5-0,0-0-2] Plate Offsets (X,Y)-LOADING (psf) SPACING-2-0-0 CSI DEFL l/defi L/d **PLATES** GRIP in (loc) TCLL 20.0 Plate Grip DOL 1.25 TC 0.28 Vert(LL) -0.05 10-11 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1 25 BC 0.77 Vert(CT) -0.11 10-11 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.29 Horz(CT) 0.11 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-MS Weight: 85 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 WERS

SLIDER

Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0

REACTIONS.

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

Max Horz 2=127(LC 9)

Max Uplift 8=-110(LC 13), 2=-149(LC 12) Max Grav 8=538(LC 1), 2=638(LC 1)

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

2-4=-602/175, 4-5=-642/175, 5-6=-642/181, 6-8=-633/187 TOP CHORD

BOT CHORD 2-13=-150/464, 11-12=-336/1007, 10-11=-259/991, 8-9=-114/462

WEBS 5-11=-61/390, 6-11=-554/262, 4-11=-556/286

NOTES-(7)

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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 7-4-0, Exterior(2R) 7-4-0 to 10-4-0, Interior(1) 10-4-0 to 14-8-0 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

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

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

June 30,2021

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SIMQUE - LOT 34 PRESERVE Qty Ply Truss Type Job Truss T24526171 COMMON TRUSS 2845647 T16 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:11 2021 Page 1 Lake City. FL - 32055. Builders FirstSource (Lake City,FL), ID:Ad27wGdB3Dlinto_ShAPXtzlZ29-go1ccRcQvJT01blsk5GNlrWXy9Evs08tbosc8Rz1Ov_ 14-8-0 Scale = 1:36.6 4x6 = 8.00 12 4x4 / 4x4 > 18 7 2x4 11 3x10 || 3x10 || 14-8-0 7-4-0 7-4-0 Plate Offsets (X,Y)-[2:0-7-0,Edge], [6:0-3-8,Edge] PLATES GRIP SPACING-CSL DEFL. (loc) I/defl L/d LOADING (psf) 244/190 -0.09 7-10 >999 240 MT20 20.0 Plate Grip DOL 1.25 TC 0.55 Vert(LL) TCLL 180 Lumber DOL 1.25 BC 0.55 Vert(CT) -0.147-10 >999 TCDL 7.0 BCLL 0.0 Rep Stress Incr YES WR 0.15 Horz(CT) 0.04 6 n/a n/a FT = 20% Weight: 66 lb Code FBC2020/TPI2014 BCDL 10.0 Matrix-MS

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS

Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0 SLIDER

REACTIONS.

(size) 6=0-3-8, 2=0-3-8 Max Horz 2=127(LC 11)

Max Uplift 6=-110(LC 13), 2=-149(LC 12) Max Grav 6=636(LC 20), 2=726(LC 19)

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

TOP CHORD

2-4=-690/236, 4-6=-685/175 2-7=-60/527, 6-7=-60/527

BOT CHORD WEBS

4-7=-5/392

NOTES-(7)

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=22ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 7-4-0, Exterior(2R) 7-4-0 to 10-4-0, Interior(1) 10-4-0 to 14-8-0 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) 6=110, 2=149.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Structural wood sheathing directly applied or 5-11-8 oc purlins.

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

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

June 30,2021

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



Truss Type SIMQUE - LOT 34 PRESERVE Job Truss Qty Ply T24526172 T17 2845647 Common Girder Job Reference (optional) Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:13 2021 Page 1 Builders FirstSource (Lake City,FL), ID:Ad27wGdB3Dlinto_ShAPXtzlZ29-cA8M07egQwjkGuvFrWlrqGby?zzdKllA36LjCJz1Ouy 10-10-4 14-8-0 Scale = 1:36 6 5x6 = 3 8.00 12 3x8 / 3x8 > 0-11-3 16 17 21 6 18 19 20 7 9 R 3x10 || 7x8 = 3x10 || 10x12 = 10x12 = 10-10-4 7-4-0 14-8-0 Plate Offsets (X,Y)-[1:0-0-0,0-3-10], [8:0-4-0,0-4-12] LOADING (psf) SPACING-2-0-0 CSI DEFL PLATES GRIP I/defl L/d TCLL 20.0 Plate Grip DOL 1.25 TC 0.20 Vert(LL) -0.04 7-8 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.34 Vert(CT) -0.08 7-8 >999 180 BCLL 0.0 Rep Stress Incr NO WB 0.85 Horz(CT) 0.01 5 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 247 lb FT = 20%LUMBER-BRACING-TOP CHORD 2x6 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

2x8 SP 2400F 2.0E **BOT CHORD** WEBS 2x4 SP No 3

WEDGE

Left: 2x6 SP No.2, Right: 2x6 SP No.2

REACTIONS.

(size) 1=0-3-8, 5=(0-3-8 + bearing block) (req. 0-3-13)

Max Horz 1=-111(LC 4)

Max Uplift 1=-567(LC 8), 5=-1124(LC 9)

Max Grav 1=4250(LC 1), 5=6443(LC 1)

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

TOP CHORD

BOT CHORD

WEBS

1-2=-5590/752, 2-3=-4362/644, 3-4=-4370/646, 4-5=-6549/995 1-9=-639/4536, 8-9=-639/4536, 7-8=-786/5375, 5-7=-786/5375 3-8=-617/4444, 4-8=-2270/506, 4-7=-436/2584, 2-8=-1184/230, 2-9=-146/1438

NOTES-(11)

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-3-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) 2x8 SP 2400F 2.0E bearing block 12" long at it. 5 attached to each face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners per block. Bearing is assumed to be SP No.2.
- 4) Unbalanced roof live loads have been considered for this design.
- 5) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 6) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 1=567, 5=1124.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1092 lb down and 138 lb up at 2-0-12, 1092 lb down and 138 lb up at 4-0-12, 1092 lb down and 138 lb up at 6-0-12, 1092 lb down and 138 lb up at 8-0-12, 1092 lb down and 138 lb up at 10-0-12, and 1092 lb down and 137 lb up at 12-0-12, and 3056 lb down and 741 lb up at 13-3-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any



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

June 30,2021

Continued on page 2
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/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 34 PRESERVE	
1 1 2 2 2	1000000	Company of the second			Substitution of the substi	T24526172
2845647	T17	Common Girder	1	2	A MATERIAL CONTRACTOR OF THE STATE OF THE ST	
	With the second				Job Reference (optional)	
Builders FirstSourc	ce (Lake City,FL), Lake	e City, FL - 32055,	WARRENCE OF THE PROPERTY OF TH	8.430 s J	un 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:13 203	21 Page 2

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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, 10-13=-20

Concentrated Loads (lb)

Vert: 9=-1092(B) 16=-1092(B) 17=-1092(B) 18=-1092(B) 19=-1092(B) 20=-1092(B) 21=-3056(B)



Truss Type Job SIMQUE - LOT 34 PRESERVE Truss Qty Ply T24526173 2845647 T18 Common Job Reference (optional) Builders FirstSource (Lake City,FL), 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:14 2021 Page 1 ID:Ad27wGdB3Dlinto_ShAPXtzIZ29-5NikETflBErbu2URPEp4NT88tNMV3PEJHm5Gktz1Oux Lake City, FL - 32055, 1-0-0 Scale = 1:29.3 4x4 = 12.00 12 0-5-8 9-5-8 6 2x4 || 3x4 = 3x4 = [4:0-1-8,Edge] Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 CSI. DEFL. PLATES GRIP in (loc) I/defi 1 /d 20.0 Plate Grip DOL 244/190 TCLL 1.25 TC 0.19 0.01 Vert(LL) 6-9 >999 240 MT20 TCDL 7.0 Lumber DOL 1.25 BC -0.01 0.17 Vert(CT) 6-12 >999 180 BCLL 0.0 0.06 Rep Stress Incr WB YES Horz(CT) 0.00 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

BCDL

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

10.0

WEBS 2x4 SP No.3

Code FBC2020/TPI2014

(size) 2=0-3-8, 4=0-3-8 Max Horz 2=106(LC 11) Max Uplift 2=-72(LC 12), 4=-72(LC 13)

Max Grav 2=325(LC 1), 4=325(LC 1)

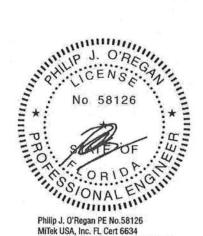
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-270/159, 3-4=-270/159

- 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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-8-0, Exterior(2R) 3-8-0 to 6-8-0, Interior(1) 6-8-0 to 8-4-0 zone; 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



FT = 20%

Weight: 36 lb

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

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

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

June 30,2021

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6904 Parke East Blvd. Tampa, FL 36610

Truss Truss Type Qty Ply SIMQUE - LOT 34 PRESERVE Job T24526174 2845647 T18G GABLE Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:15 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:Ad27wGdB3Dlinto_ShAPXtzlZ29-ZZG6RpgwyXzSWC3dzxKJvhgKtnkroseTWQqpGCz1Ouw 7-4-0 1-0-0 Scale = 1:27.4 4x4 = No 58126

No 58126

No SI OF OR ID OF ONAL ENGINEERS 5 12.00 12 14 13 2x4 || 62x4 || 7 3x4 N 0-5-8

Date:

2x4 ||

Plate Off:	sets (X,Y)-	2:0-3-1,0-2-0], [8:0-3-1,0	1-2-0]									
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	0.11	Vert(LL)	-0.00	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.00	9	n/r	120	100000000000000000000000000000000000000	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	ix-S						Weight: 42 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

2x4 ||

4x6 =

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

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

2x4 ||

LUMBER-

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

2x4 SP No.3 OTHERS

REACTIONS. All bearings 7-4-0.

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634

6904 Parke East Blvd. Tampa FL 33610

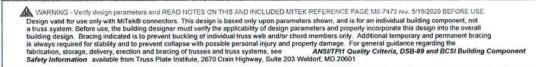
(lb) - Max Horz 2=-96(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 12, 10 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 11, 12, 10

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 3-8-0, Corner(3R) 3-8-0 to 6-8-0, Exterior(2N) 6-8-0 to 8-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 12, 10.
- 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

June 30,2021





SIMQUE - LOT 34 PRESERVE Job Truss Truss Type Qty Ply T24526175 2845647 T19 Common Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:16 2021 Page 1 ID:Ad27wGdB3DlInto_ShAPXtzIZ29-1IqVf9gZjr6I7MeqXfrYSuDTsAwEX9Qcl4aNpez1Ouv Scale = 1:28.3 4x6 || 2 12.00 12 0-5-B 0-5-8 11 12 4 3x10 || 3x6 = 3x6 = Plate Offsets (X,Y)-[1:0-6-0,0-1-4], [3:0-6-0,0-1-4] SPACING-LOADING (psf) CSI. I/defl L/d PLATES (loc) -0.02 Plate Grip DOL TC TCLL 20.0 1.25 0.22 Vert(LL) 4-7 >999 240 MT20 244/190 TCDL Lumber DOL 7.0 1.25 BC 0.60 Vert(CT) -0.04>999 180 BCLL 0.0 Rep Stress Incr NO WB 0.66 Horz(CT) 0.01 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 38 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.3

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

Max Horz 1=83(LC 26)

Max Uplift 1=-289(LC 9), 3=-289(LC 8) Max Grav 1=1293(LC 1), 3=1293(LC 1)

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

TOP CHORD 1-2=-1412/356, 2-3=-1412/356

BOT CHORD 1-4=-208/974, 3-4=-208/974

WEBS 2-4=-405/1729

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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=289, 3=289,
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 681 lb down and 174 lb up at 2-0-12, and 681 lb down and 174 lb up at 3-8-0, and 681 lb down and 174 lb up at 5-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54, 2-3=-54, 5-8=-20

Concentrated Loads (lb)

Vert: 4=-681(B) 11=-681(B) 12=-681(B)



Structural wood sheathing directly applied or 4-9-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

> > June 30,2021

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 fruss systems, see

ANSI/TH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



SIMQUE - LOT 34 PRESERVE Qty Ply Job Truss Truss Type T24526176 2845647 T20 Monopitch Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:17 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:Ad27wGdB3DlInto_ShAPXtzlZ29-VyOtsVhBU9E9IWD04MMn_6mYiaFWGmymzkJwL4z1Ouu -1-8-0 Scale = 1:17.7 2x4 || 3 4.00 12 0-6-1 6-7-8 Plate Offsets (X,Y)-- [2:0-0-0,0-0-11] DEFL. **PLATES** GRIP LOADING (psf) SPACING-2-0-0 I/defl Plate Grip DOL 1.25 0.60 Vert(LL) 0.25 4-7 >309 240 MT20 244/190 TCLL 20.0 TCDL 7.0 Lumber DOL 1.25 BC 0.66 Vert(CT) 0.22 >355 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.02 n/a n/a Code FBC2020/TPI2014 Matrix-MP Weight: 26 lb FT = 20% BCDL 10.0 LUMBER-BRACING-Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD 2x4 SP No.2 TOP CHORD **BOT CHORD** 2x4 SP No.2 except end verticals. **BOT CHORD** WEBS 2x4 SP No.3

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

REACTIONS.

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

Max Horz 2=103(LC 8)

Max Uplift 4=-129(LC 8), 2=-180(LC 8) Max Grav 4=228(LC 1), 2=341(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 6-5-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

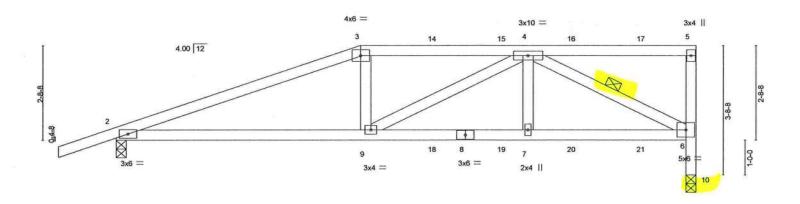
June 30,2021

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



SIMQUE - LOT 34 PRESERVE Job Truss Truss Type Qty Ply T24526177 2845647 T21 Half Hip Girder Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:18 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:Ad27wGdB3DlInto_ShAPXtzIZ29-z8yF4ripFSM0NgoCe3u0XJIf__ZZ?6ZvCO3UtXz1Out 11-9-12 4-9-12 16-7-8 4-9-12 1-8-0

Scale: 3/8"=1"



7-0-0 7-0-0						11-9 4-9-				16-7-8 4-9-12			
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	0.89	Vert(LL)	0.14	9-13	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.19	9-13	>999	180			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.08	10	n/a	n/a			
BCDL	10.0	Code FBC2020/TI	PI2014	Matrix	x-MS	1					Weight: 78 lb	FT = 20%	

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2

WEBS

2x4 SP No.3 *Except*

5-10: 2x4 SP No.2

REACTIONS.

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

Max Horz 2=109(LC 4)

Max Uplift 2=-618(LC 4), 10=-714(LC 4) Max Grav 2=1173(LC 1), 10=1325(LC 1)

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

TOP CHORD **BOT CHORD**

2-3=-2610/1316, 3-4=-2439/1285, 6-10=-1325/714 2-9=-1277/2422, 7-9=-1089/2030, 6-7=-1089/2030

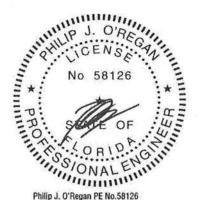
WEBS

3-9=-152/426, 4-9=-221/462, 4-7=-132/395, 4-6=-2214/1187

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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=618, 10=714,
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 224 lb down and 169 lb up at 7-0-0, 108 lb down and 98 lb up at 9-1-1, 108 lb down and 95 lb up at 11-1-1, and 108 lb down and 98 lb up at 13-1-1, and 108 lb down and 98 lb up at 15-1-1 on top chord, and 323 lb down and 221 lb up at 7-0-0, 84 lb down and 65 lb up at 9-1-1, 84 lb down and 65 lb up at 11-1-1, and 84 lb down and 65 lb up at 13-1-1, and 84 lb down and 65 lb up at 15-1-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



Structural wood sheathing directly applied, except end verticals.

4-6

Rigid ceiling directly applied or 5-1-7 oc bracing.

VERTICAL LEGS ARE NOT DESIGNED FOR LATERAL

LOADS IMPOSED BY SUPPORTS (BEARINGS).

1 Row at midpt

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

June 30,2021

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6904 Parke East Blvd. Tampa, FL 36610

2845647 T21 Half Hip Girder 1 1 Job Reference (optional)	Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 34 PRESERVE
					1	T24526
I Job Reference (optional)	2845647	T21	Half Hip Girder	1	1	1. 2. 2
						Job Reference (optional)

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:19 2021 Page 2 ID:Ad27wGdB3Dlinto_ShAPXtzIZ29-RKWdHAjR0mUt_pNPCnPF4XrqkOvokZp3R2o1Pzz1Ous

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, 6-11=-20

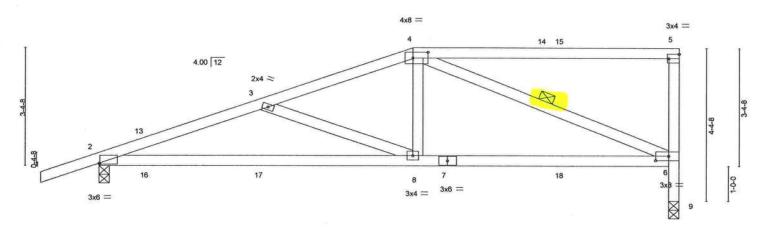
Concentrated Loads (lb)

Vert: 3=-177(F) 9=-323(F) 14=-108(F) 15=-108(F) 16=-108(F) 17=-108(F) 18=-64(F) 19=-64(F) 20=-64(F) 21=-64(F)



Job	Truss	Truss Type		Qty	Ply	SIMQUE - LOT 34 PRESERVE	
2845647	T22	Half Hip		1	1	k' =	T24526178
2020/2020/2						Job Reference (optional)	
Builders FirstSource	(Lake City,FL), Lake C	ity, FL - 32055,			8.430 s Ju	n 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15	5:21 2021 Page 1
				ID:Ad27wGdB3	Dlinto ShA	PXtzlZ29-NjdOiskhYNkbE7WnJCRj9ywDtBdnCV2	ZLuMH8Usz1Ouq
-1-8-0	4-10-1		9-0-0	E		16-7-8	
1-8-0	4-10-1		4-1-15			7-7-8	

Scale: 3/8"=1"



	ŀ		9-0-0							7-7-8		
Plate Offs	ets (X,Y)	[2:0-0-5,0-0-5], [4:0-5-4,0			-8,0-1-8]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	0.30	8-12	>654	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	0.26	8-12	>767	180	E Participation	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	-0.04	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	k-MS						Weight: 81 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

46 7 0

except end verticals.

1 Row at midpt

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

4-6 VERTICAL LEGS ARE NOT DESIGNED FOR LATERAL LOADS IMPOSED BY SUPPORTS (BEARINGS).

Rigid ceiling directly applied or 3-11-5 oc bracing.

LUMBER-

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

2x4 SP No.3 *Except* WEBS

5-9: 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 9=0-3-8 Max Horz 2=133(LC 8)

Max Uplift 2=-369(LC 8), 9=-318(LC 8) Max Grav 2=704(LC 1), 9=605(LC 1)

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

TOP CHORD 2-3=-1296/1432, 3-4=-946/1128, 6-9=-605/712

BOT CHORD 2-8=-1475/1211, 6-8=-1126/879

WEBS 3-8=-367/401, 4-8=-627/417, 4-6=-885/1162

- 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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 16-5-12 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

9 0 0

- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- 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) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=369, 9=318.
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

June 30,2021

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ANSITPH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



SIMQUE - LOT 34 PRESERVE Ply Truss Truss Type Qty Job T24526179 T23 Half Hip 2845647 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:23 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:Ad27wGdB3DlInto_ShAPXtzlZ29-K6l87Ymy4?_JTRgARdTBEN0ei?MAgKNeMfmFYkz1Ouo 5-10-1

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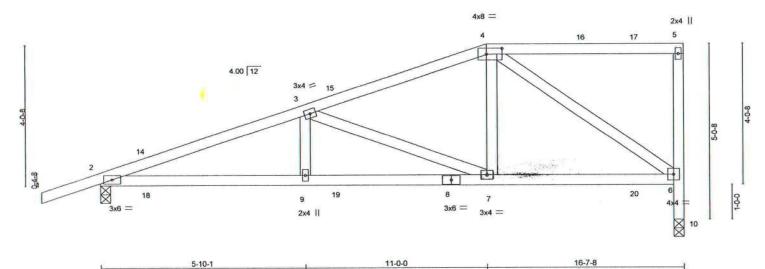


Plate Offs	sets (X,Y)	5-10- [4:0-5-4,0-2-0]	1			5-1-15	11111111				5-7-8	
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	0.10	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.09	9-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	-0.04	10	n/a	n/a	200000000000000000000000000000000000000	
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	1 232 0					Weight: 84 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WEBS

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

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

5-10: 2x4 SP No.2

REACTIONS.

(size) 2=0-3-8, 10=0-3-8 Max Horz 2=156(LC 8)

Max Uplift 2=-365(LC 8), 10=-323(LC 8) Max Grav 2=704(LC 1), 10=605(LC 1)

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

TOP CHORD **BOT CHORD**

2-3=-1301/1455, 3-4=-692/775, 6-10=-605/732 2-9=-1491/1197, 7-9=-1491/1197, 6-7=-792/624

WEBS

3-7=-626/773, 4-7=-600/392, 4-6=-727/932, 3-9=-302/219

NOTES-(9)

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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 16-5-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

Rigid ceiling directly applied or 4-7-15 oc bracing.

VERTICAL LEGS ARE NOT DESIGNED FOR LATERAL LOADS IMPOSED BY SUPPORTS (BEARINGS).

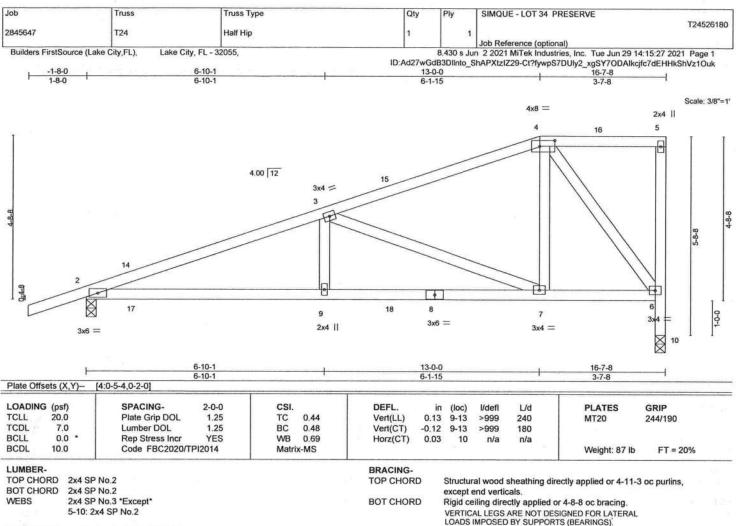
except end verticals.

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

June 30,2021

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5-10: 2x4 SP No.2

REACTIONS.

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

Max Horz 2=180(LC 8)

Max Uplift 2=-359(LC 8), 10=-329(LC 8) Max Grav 2=704(LC 1), 10=605(LC 1)

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

TOP CHORD

2-3=-1247/1326, 3-4=-471/489, 6-10=-605/731

BOT CHORD

2-9=-1387/1141, 7-9=-1387/1141, 6-7=-522/402 3-9=-373/279, 3-7=-801/945, 4-7=-645/417, 4-6=-641/840

WEBS

NOTES-(9)

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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 13-0-0, Exterior(2E) 13-0-0 to 16-5-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

June 30,2021

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



Job Truss Truss Type Qty SIMQUE - LOT 34 PRESERVE T24526181 2845647 T25 Monopitch 14 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:29 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:Ad27wGdB3DlInto_ShAPXtzlZ29-8F6PNbqifrkSBM7KntabUeFhUQTk48aXkbDZmOz1Oui 4-0-0 Scale: 3/8"=1" 0-6-5 4.00 12 ADEQUATE SUPPORT REQUIRED 2x4 || 7x8 = 948 7 2x4 || 6x8 = 3x4 = 4-0-0 4-0-0 6-10-0 GRIP CSI DEFL I/defl 1/d PLATES LOADING (psf) SPACING-2-0-0 in (loc) 244/190 0.23 Vert(LL) 0.03 >999 240 MT20 TCLL 20.0 Plate Grip DOL 1.25 TC 6-7 180 TCDL 7.0 Lumber DOL 1.25 BC 0.19 Vert(CT) -0.026-7 >999 0.21 -0.01 BCLL 00 Rep Stress Incr YES WB Horz(CT) 6 n/a n/a Code FBC2020/TPI2014 Weight: 60 lb FT = 20% BCDL 10.0 Matrix-MS BRACING-LUMBER-2x6 SP No.2 *Except* TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals

BOT CHORD

Rigid ceiling directly applied or 6-11-5 oc bracing.

1-3: 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WEBS

REACTIONS.

(size) 5=Mechanical, 2=0-3-8, 6=0-3-8

Max Horz 2=201(LC 8)

Max Uplift 5=-86(LC 12), 2=-165(LC 8), 6=-309(LC 8) Max Grav 5=149(LC 1), 2=369(LC 1), 6=549(LC 1)

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

TOP CHORD 2-3=-408/464, 4-6=-388/400 **BOT CHORD** 2-7=-682/361, 6-7=-686/362

WEBS 3-6=-389/720, 3-7=-284/177

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 15-0-12 zone; porch left 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.
- 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) 2=165, 6=309
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

June 30,2021

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b	Truss	Truss Type		Qty	Ply	SIMQUE - LOT 34 PRESEI		T24526182
45647	T26	COMMON		7	1	Job Reference (optional)		
Builders FirstSource (L.	ake City,FL), Lake City	, FL - 32055,		ID:Ad27wG	8.430 s Ju	in 2 2021 MiTek Industries, In	c. Tue Jun 29 14:15:30 2021 WiWLb5q0roplqdlpWogzFz6lq	Page 1
	-1-8-0 6 1-8-0 6	-0-0	11-0-0	16-0-	-0	22-0-0	23-8-0 1-8-0	210uii
	1-8-0 6	-0-0	5-0-0	5-0-	0	6-0-0	1-8-0	
				4x6			Sc	ale = 1:50
01:3	8	00 12 2x4 3	13		14	2x4 5		
4	/			/				
1-2-10	3x8 = 2		<u>//</u>				3x8 % 6 7 0t-q-	
12.10	2		10 15	16			75-10	
105-207	2//	11 4x8 =		16			6	

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

20.0

7.0

0.0

10.0

2x4 SP No.3 *Except* WEBS

2-12,6-8: 2x6 SP No.2

BRACING-

Vert(LL)

Vert(CT)

Horz(CT)

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

MT20

Weight: 157 lb

240

180

n/a

except end verticals.

>999

>698

n/a

9-11

8

-0.209-11

-0.37

0.01

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

REACTIONS.

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

Max Horz 12=223(LC 11)

Max Uplift 12=-288(LC 12), 8=-288(LC 13) Max Grav 12=1343(LC 19), 8=1307(LC 20)

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

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

TOP CHORD 2-3=-1688/331, 3-4=-1714/485, 4-5=-1653/485, 5-6=-1679/331, 2-12=-1358/330,

6-8=-1313/330

BOT CHORD 9-11=-104/938 WEBS

4-9=-312/968, 5-9=-311/241, 4-11=-313/1008, 3-11=-310/241, 2-11=-177/1261,

1.25

1 25

NO

TC

BC

WB 0.54

Matrix-MS

0.42

0.90

6-9=-178/1325

(8)

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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 23-8-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

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) 12=288, 8=288.

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

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

LOAD CASE(S) Standard

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

Vert: 1-2=-54, 2-4=-54, 4-6=-54, 6-7=-54, 11-12=-20, 9-11=-80(F=-60), 8-9=-20



244/190

FT = 20%

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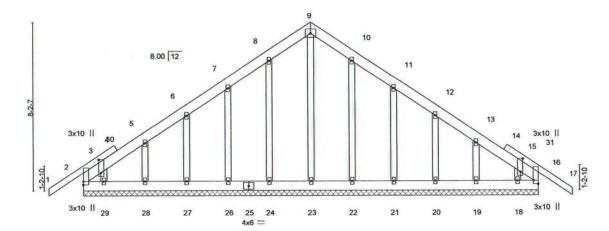
June 30,2021



SIMOUE - LOT 34 PRESERVE Job Truss Truss Type Qty Ply T24526183 COMMON SUPPORTED GAB 2845647 T26G Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:32 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:Ad27wGdB3Dlinto_ShAPXtzlZ29-ZqoY0dtbym712psvT08l5GtDxdX?HXqzQZSDNjz1Ouf 11-0-0

5x6 =

Scale = 1:53.8



22-0-0 22-0-0 1-4], [15:0-7-11,0-1-4], [16:Edge,0-2-8]

BRACING-

TOP CHORD

BOT CHORD

Plate Off	sets (X,Y)-	[3:0-7-11,0-1-4], [15:0-7-	11,0-1-4], [16:E	dge,0-2-8]					-			
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	-0.01	17	n/r	120	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	-0.01	17	n/r	120	NW/CONTROL	
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S						Weight: 186 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*

1-4,14-17: 2x4 SP No.2

BOT CHORD 2x6 SP No.2

OTHERS 2x4 SP No.3

REACTIONS. All bearings 22-0-0.

(lb) - Max Horz 2=-181(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 24, 26, 27, 28, 22, 21, 20, 19, 18 except 29=-104(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 24, 26, 27, 28, 29, 22, 21, 20, 19, 18

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

NOTES- (11)

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=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-8-0 to 1-4-0, Exterior(2N) 1-4-0 to 11-0-0, Corner(3R) 11-0-0 to 14-0-0, Exterior(2N) 14-0-0 to 23-8-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 24, 26, 27, 28, 22, 21, 20, 19, 18 except (jt=lb) 29=104.
- 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

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

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

June 30,2021

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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 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



Job Truss Truss Type Qty SIMQUE - LOT 34 PRESERVE Ply T24526184 2845647 TG01 FLAT TRUSS 2 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:36 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:Ad27wGdB3DlInto_ShAPXtzlZ29-Rc12r_w50_dTXRAgirCEG62osErKD72ZLBQRWUz1Oub 19-2-0 2-6-4 22-0-0 8x10 = 2x4 || 2x4 || Scale = 1:41.1 8x10 = 3x8 = 5x6 = 8x10 = 2x4 || 8x10 = 6 12 27 18 20 23 25 28 28 17 16 15 14 13 11 12x14 = 3x8 || 10x12 = 3x6 II 12x14 = 3x8 || 12x14 = 4x8 || 4x8 || 2-10-0 2-10-0 8-8-0 3-3-12 11-0-0 13-4-0 Plate Offsets (X,Y)-[6:0-3-0,0-3-0], [15:0-6-0,0-6-0] SPACING-LOADING (psf) DEFL I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.60 -0.10 >999 244/190 Vert(LL) 14 240 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.25 -0.19 14 >999 180 Vert(CT) BCLL 0.0 Rep Stress Incr WB 1.00 Horz(CT) NO 0.02 10 n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 530 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 4-7-14 oc purlins, **BOT CHORD** 2x8 SP 2400F 2.0E except end verticals. WEBS 2x4 SP No.3 *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 1-19,9-10: 2x6 SP No.2, 1-17,3-17,7-11,9-11: 2x4 SP No.2

REACTIONS. (size) 19=(0-3-8 + bearing block) (req. 0-4-4), 10=0-3-8

Max Uplift 19=-978(LC 4), 10=-968(LC 4) Max Grav 19=7179(LC 2), 10=5687(LC 1)

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

1-19=-6655/925, 1-2=-2858/387, 2-3=-2858/387, 3-4=-6764/1041, 4-5=-6764/1041, 5-6=-6930/1268, 6-7=-6930/1268, 7-8=-2274/397, 8-9=-2274/397, 9-10=-5313/947 TOP CHORD

BOT CHORD

16-17=-717/4981, 15-16=-717/4981, 14-15=-1192/7096, 13-14=-1192/7096, 12-13=-806/4455, 11-12=-806/4455

1-17=-963/7121, 3-17=-5554/861, 3-16=-112/1688, 3-15=-680/3732, 5-15=-1155/422,

5-14=-130/1161, 5-13=-555/92, 7-13=-968/5249, 7-12=-45/527, 7-11=-5706/1069,

9-11=-988/5667

NOTES-(11)

WEBS

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

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

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-8-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 6-13 2x4 - 1 row at 0-6-0 oc.

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

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

4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60

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

6) Provide adequate drainage to prevent water ponding.

7) 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) 19=978, 10=968.



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

June 30,2021

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTE&B connectors. This design is based only upon parameters and normal value of the 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/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 34 PRESERVE	70.500.00
2845647	TG01	FLAT TRUSS	1	_	8	T24526184
				2	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:36 2021 Page 2 ID:Ad27wGdB3DlInto_ShAPXtzlZ29-Rc12r_w50_dTXRAgirCEG62osErKD72ZLBQRWUz1Oub

NOTES- (11)

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1222 lb down and 96 lb up at 2-0-12, 1222 lb down and 96 lb up at 6-0-12, 1222 lb down and 96 lb up at 8-0-12, 1222 lb down and 96 lb up at 10-0-12, 1221 lb down and 96 lb up at 12-0-12, 3873 lb down and 1114 lb up at 13-3-3, 184 lb down at 15-2-5, 184 lb down at 17-2-5, and 184 lb down at 19-2-5, and 189 lb down at 21-2-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-9=-54, 10-19=-20

Concentrated Loads (lb)

Vert: 13=-3873(F) 11=-138(F) 20=-1087(F) 21=-1087(F) 22=-1087(F) 23=-1087(F) 25=-1086(F) 26=-138(F) 27=-138(F) 28=-143(F)



SIMQUE - LOT 34 PRESERVE Truss Type Qtv Ply Job Truss T24526185 2845647 TG02 **FLAT TRUSS** Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:37 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:Ad27wGdB3Dllnto_ShAPXtzlZ29-vobR3KxknllK9alsFZjToKbyGeD3yhHiar9_2wz1Oua 9-6-8 Scale = 1:54.7 4x6 = 2x4 || 4x6 = 2 3 9 8 10 13 11 12 14 15 16 5 6 3x8 || 4x8 = 3x8 || 4-9-4 9-6-8 4-9-4 LOADING (psf) SPACING-CSI. DEFL. L/d **PLATES** GRIP 2-0-0 I/defl in (loc) 20.0 Plate Grip DOL 1.25 TC 0.69 Vert(LL) -0.03 5 >999 240 MT20 244/190 TCLL 7.0 1.25 BC 0.09 Vert(CT) -0.05 5 >999 180 TCDL Lumber DOL 0.0 Rep Stress Incr NO WB 0.55 Horz(CT) 0.00 4 n/a BCLL n/a Code FBC2020/TPI2014 Matrix-MS Weight: 234 lb FT = 20% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEBS 2x4 SP No.3

(size) 6=Mechanical, 4=Mechanical REACTIONS. Max Uplift 6=-1163(LC 4), 4=-1175(LC 4)

Max Grav 6=3710(LC 1), 4=3745(LC 1)

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

1-6=-3222/971, 1-2=-1196/379, 2-3=-1196/379, 3-4=-3242/975

WEBS 1-5=-810/2554, 2-5=-3417/836, 3-5=-810/2553

NOTES- (11)

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

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

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl.,

- GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

Provide adequate drainage to prevent water ponding.

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

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 6=1163, 4=1175.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 635 lb down and 137 lb up at 1-9-11, 635 lb down and 130 lb up at 3-9-11, and 635 lb down and 130 lb up at 5-9-11, and 635 lb down and 137 lb up at 7-9-11 on top chord, and 480 lb down and 276 lb up at 1-9-11, 480 lb down and 276 lb up at 3-9-11, and 480 lb down and 276 lb up at 5-9-11, and 480 lb down and 276 lb up at 7-9-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard



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

1-6, 3-4, 2-5

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

except end verticals

1 Row at midpt

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

June 30,2021

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 34 PRESERVE	
1998393			100	1000	Assisted Michigan - Paper of the District of the Strategy	T24526185
2845647	TG02	FLAT TRUSS	1	2	artist was settlement with the control	
FEC. 0.000 NA	Language Control			~	Job Reference (optional)	
Puildose FiretCour	rea (Lake City EL) Lake	City El 32055		8 430 e lu	n 2 2021 MiTek Industries Inc. Tue Jun 29 1	4:15:37 2021 Page 2

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

ID:Ad27wGdB3DlInto_ShAPXtzlZ29-vobR3KxknllK9alsFZjToKbyGeD3yhHiar9_2wz1Oua

LOAD CASE(S) Standard

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

Vert: 1-3=-304, 4-6=-20

Concentrated Loads (lb)

Vert: 7=-635 8=-635 9=-635 10=-635 11=-480(B) 13=-480(B) 14=-480(B) 16=-480(B)



Job Truss Truss Type Qty Ply SIMQUE - LOT 34 PRESERVE T24526186 TG03 FLAT TRUSS 2845647 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:40 2021 Page 1 ID:Ad27wGdB3Dlinto_ShAPXtzlZ29-KNHZhMzc3D7v02TRxhHAQyDRHsFK9ya8GpOefFz1OuX 4-9-4 4-8-12 THIS TRUSS IS NOT SYMMETRIC. Scale = 1:58.7 4x4 = 2x4 11 PROPER ORIENTATION IS ESSENTIAL 2 3 9 10 11 8 No 58126

No 58126

No Filip J. O'REGAL

No Filip J. O'REGAL

Philip J 6 12 Philip J. O'Regan PE No.58126 13 14 15 16 5 MiTek USA, Inc. FL Cert 6634 3x6 || 8x10 = 3x6 II 6904 Parke East Blvd. Tampa FL 33610 4x4 = LOADING (psf) SPACING-2-0-0 CSI DEFL I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.77 Vert(LL) -0.02 4-5 >999 240 MT20 244/190 BC TCDL 7.0 Lumber DOL 1.25 0.12 Vert(CT) -0.034-5 >999 180 0.0 BCLL Rep Stress Incr NO WB 0.90 Horz(CT) 0.00 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-MS Weight: 257 lb FT = 20%LUMBER-BRACING-TOP CHORD 2x6 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x8 SP 2400F 2.0E except end verticals. 2x4 SP No.3 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS WERS 1 Row at midpt 1-7.3-4 REACTIONS. (size) 6=0-3-8, 4=Mechanical Max Uplift 6=-1335(LC 4), 4=-1173(LC 4) Max Grav 6=3648(LC 1), 4=3307(LC 1) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-7=-566/240, 3-4=-913/246 TOP CHORD BOT CHORD 5-6=-321/902, 4-5=-321/902 1-6=-356/75, 2-6=-2484/849, 2-5=-541/735, 2-4=-1939/691 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, 2x6 - 2 rows staggered at 0-9-0 oc.

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

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

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

3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl.,

GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60

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

5) Provide adequate drainage to prevent water ponding.

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

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=1335, 4=1173.

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 625 lb down and 140 lb up at 1-9-3, 625 lb down and 133 lb up at 3-9-3, and 625 lb down and 133 lb up at 5-9-3, and 625 lb down and 140 lb up at 7-9-3 on top chord, and 172 lb down and 252 lb up at 1-9-3, 172 lb down and 252 lb up at 3-9-3, and 172 lb down and 252 lb up at 5-9-3, and 172 lb down and 252 lb up at 7-9-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of

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

LOAD CASE(S) Standard

June 30,2021





Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 34 PRESERVE	T24526186
2845647	TG03	FLAT TRUSS	1	2		124320100
					Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:40 2021 ID:Ad27wGdB3Dlinto_ShAPXtzlZ29-KNHZhMzc3D7v02TRxhHAQyDRHsFK9ya8GpOefFz1OuX

LOAD CASE(S) Standard

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

Vert: 1-3=-304(F=-250), 5-7=-20, 4-5=-220(B=-200)

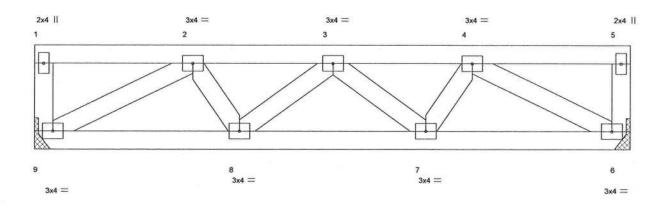
Concentrated Loads (lb)

Vert: 8=-625 9=-625 10=-625 11=-625 12=-138(F) 13=-138(F) 14=-138(F) 16=-138(F)



SIMQUE - LOT 34 PRESERVE Job Truss Type Truss Qty T24526187 2845647 TG04 FLOOR 3 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:44 2021 Page 1 4-9-4 2-2-14

Scale = 1:17.7



	3-3-5 3-3-5				6-3-3 2-11-13					9-6-8 3-3-5			
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L∕d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	-0.02	7-8	>999	360	MT20	244/190	
CDL	10.0	Lumber DOL	1.00	BC	0.27	Vert(CT)	-0.03	7-8	>999	240	100000000		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	6	n/a	n/a	2.0		
BCDL	5.0	Code FBC2020/TI	PI2014	Matri	k-MS						Weight: 48 lb	FT = 20%	

LUMBER-

REACTIONS.

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

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

BRACING-TOP CHORD **BOT CHORD**

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

except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS

(size) 9=Mechanical, 6=Mechanical

Max Grav 9=509(LC 1), 6=509(LC 1)

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

TOP CHORD 2-3=-746/0, 3-4=-746/0

BOT CHORD 8-9=0/673, 7-8=0/864, 6-7=0/673

WEBS 2-9=-746/0, 4-6=-746/0

NOTES-

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

2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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



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

June 30,2021

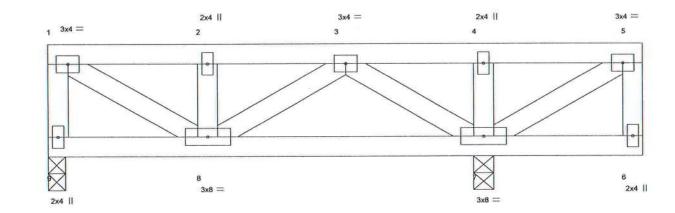
🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE Mil-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITE&® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before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



6904 Parke East Blvd. Tampa, FL 36610

Qty Plv SIMQUE - LOT 34 PRESERVE Truss Type Job Truss T24526188 FLOOR 3 2845647 TG05 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:46 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:Ad27wGdB3DlInto_ShAPXtzlZ29-9XeqyP2Nf3t2kzxbHyObgDTcAGlgZrA1ekrysvz1OuR 8-9-0 2-4-3 4-4-8 2-0-5

Scale = 1:16.4



	2-4-3			2-4-3 6-4-13 2-4-3 4-0-10					6-1 0-1	5-8 -11	8-9-0 2-2-8		
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	-0.01	8	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.13	Vert(CT)	-0.01	7-8	>999	240			
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	7	n/a	n/a			
BCDL	5.0	Code FBC2020/T	PI2014	Matri	x-MS	3 %					Weight: 45 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. (size) 9=0-3-0, 7=0-3-8

Max Grav 9=332(LC 3), 7=629(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-9=-316/0, 1-2=-360/0, 2-3=-360/0

BOT CHORD 7-8=-44/318

1-8=0/399, 3-7=-434/0 WEBS

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

2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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



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

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

except end verticals.

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

June 30,2021

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



SIMQUE - LOT 34 PRESERVE Job Truss Truss Type Qty T24526189 TG06 Flat Girder 2845647 Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:49 2021 Page 1 ID:Ad27wGdB3DlInto_ShAPXtzIZ29-Z6KzaR4Fy_GdbQfAy4xIHs45cUHBm6TTKi3dTEz1OuO

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

1-6, 3-4

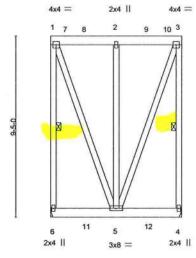
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Row at midpt



Scale = 1:57.6



3-4-15	6-9-14
3-4-15	3-4-15

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	-0.01	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.03	5	>999	180	PROSTU	
BCLL	0.0	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP	0.0000000000000000000000000000000000000					Weight: 193 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD WEBS

LUMBER-

TOP CHORD 2x6 SP No.2 BOT CHORD

REACTIONS.

2x6 SP No.2 2x4 SP No 3

WEBS

(size) 6=Mechanical, 4=Mechanical Max Uplift 6=-629(LC 4), 4=-629(LC 4) Max Grav 6=1950(LC 1), 4=1950(LC 1)

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

TOP CHORD

1-6=-1703/532, 1-2=-496/162, 2-3=-496/162, 3-4=-1703/532

WEBS

1-5=-474/1449, 2-5=-1647/336, 3-5=-474/1449

(11)

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=22ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60

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

5) Provide adequate drainage to prevent water ponding.

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

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

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

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=629, 4=629.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 659 lb down and 127 lb up at 1-9-11, and 659 lb down and 127 lb up at 3-4-15, and 659 lb down and 127 lb up at 5-0-3 on top chord, and 480 lb down and 276 lb up at 1-9-11, and 480 lb down and 276 lb up at 3-4-15, and 480 lb down and 276 lb up at 5-0-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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



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

June 30,2021

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/TP11 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

1	Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 34 PRESERVE	
		CONTACT SHARE	The state of the s		1	AND THE RESIDENCE OF THE SECOND CONTRACTOR OF	T24526189
	2845647	TG06	Flat Girder	1	2		
			and the second of the second o			Job Reference (optional)	
	Builders FirstSource (Lake C	City,FL), Lake City, FL - 3	2055,		8.430 s Jur	1 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:49 2021	Page 2

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:49 2021 Page 2 ID:Ad27wGdB3Dlinto_ShAPXtzlZ29-Z6KzaR4Fy_GdbQfAy4xlHs45cUHBm6TTKi3dTEz10uO

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-3=-54, 4-6=-20
Concentrated Loads (lb)

Vert: 5=-480(B) 2=-659 8=-659 9=-659 11=-480(B) 12=-480(B)



Job	Truss	Truss Type	- 1	Qty	Ply	SIMQUE	- LOT 34 PRESER	RVE	=======================================
2845647	TG07	FLOOR		2	1	Job Refe	rence (optional)		T2452619
Builders FirstSource (L	ake City,FL), Lake City, I	FL - 32055, 3-4-15	ID:Ad			n 2 2021 l PXtzIZ29- 6-9	MiTek Industries, Ind 1ltLnn5ujlOUCaEM 9-14		4:15:50 2021 Page 1 zVfZdZMpA0gz1OuN
		3-4-15				3-4	4-15		- 1
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			6-4-15					6	9-14
<u> </u>			6-4-15					1 0-	4-15
LOADING (psf) TCLL 40.0 TCDL 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 CSI. 1.00 TC 0.28 1.00 BC 0.29	DEFL. Vert(LI Vert(C		5	l/defl >999	L/d 360 240	PLATES MT20	GRIP 244/190
BCLL 0.0 BCDL 5.0	Rep Stress Incr Code FBC2020/TP	YES WB 0.16 12014 Matrix-MP	Horz(C	T) 0.01	4	n/a	n/a	Weight: 33 lb	FT = 20%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S	P No.2 P No.2		BRACII TOP CH			ral wood s	sheathing directly a	pplied or 6-9-1	4 oc purlins,
	P No.3		BOT CH	IORD			ctly applied or 10-0	-0 oc bracing.	
	ze) 5=Mechanical, 4=0-3-6 Gray 5=359(LC 1), 4=359(L								

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. **BOT CHORD** 4-5=0/472

2-5=-513/0, 2-4=-513/0 WEBS

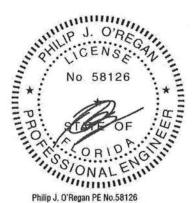
NOTES- (3)

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

2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

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



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

June 30,2021

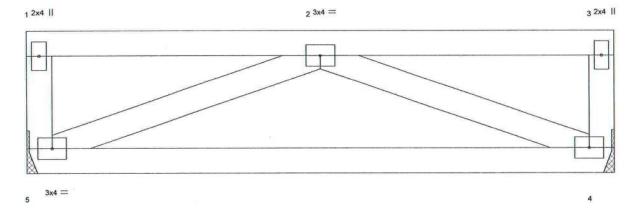
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTeXe connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Composarety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd. Tampa, FL 36610

Job Truss Truss Type Qty Ply SIMQUE - LOT 34 PRESERVE T24526191 2845647 **TG08 FLOOR** 12 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Jun 29 14:15:52 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:Ad27wGdB3DlInto_ShAPXtzIZ29-zh?6CT68FveCSuOleCV?vUicxhIRzZ3v0glH4Zz1OuL 6-9-14 3-4-15

Scale = 1:12.9



3x4 =

	6-9-14												
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	0.00	5	****	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.29	Vert(CT)	-0.05	4-5	>999	240			
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	4	n/a	n/a			
BCDL	5.0	Code FBC2020/T	PI2014	Matri	x-MP	N 50					Weight: 33 lb	FT = 20%	

6014

LUMBER-

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

2x4 SP No.3

BRACING-TOP CHORD

Structural wood sheathing directly applied or 6-9-14 oc purlins,

except end verticals. **BOT CHORD**

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

REACTIONS. (size) 5=Mechanical, 4=Mechanical

Max Grav 5=359(LC 1), 4=359(LC 1)

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

BOT CHORD 4-5=0/472

2-5=-513/0, 2-4=-513/0 WEBS

NOTES-(3)

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

2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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



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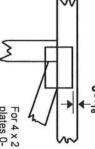


Symbols

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.

00

O

C

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:

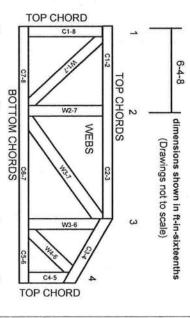
National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information.

DSB-89: BCSI:

Design Standard for Bracing.

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

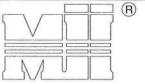
- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed 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 after truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 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

Brace Size



MiTek USA, Inc.

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

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

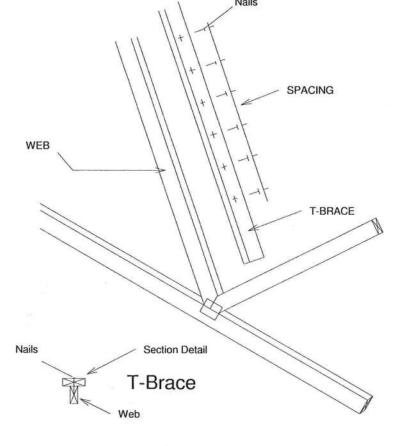
Nailing Pattern									
T-Brace size	Nail Size	Nail Spacing							
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.							

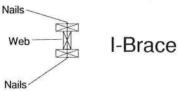
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)

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

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

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







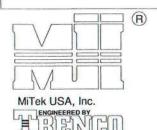
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

SCAB-BRACE DETAIL

MII-SCAB-BRACE

MiTek USA, Inc.

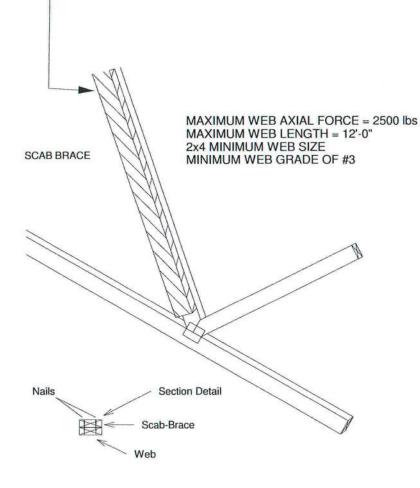
Page 1 of 1



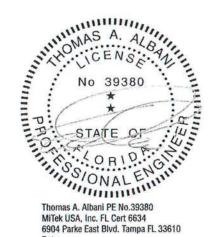
Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical. Scab must cover full length of web +/- 6".

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

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



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

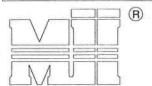


Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)

MII-REP05

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc. ENGINEERED BY

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

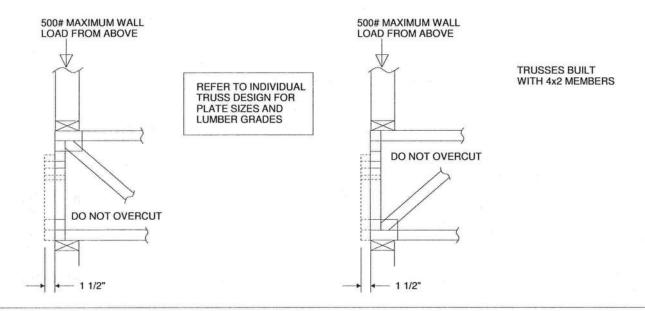
 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

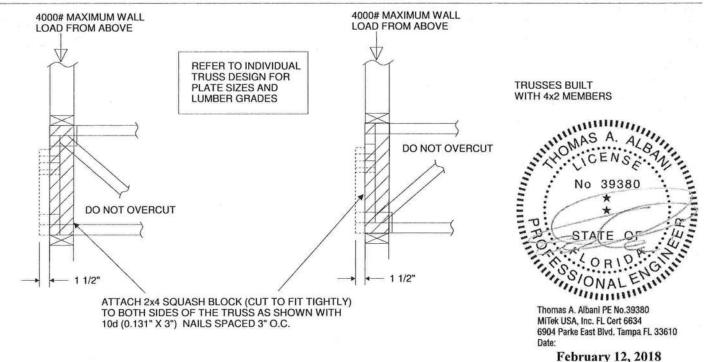
 3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.

 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.

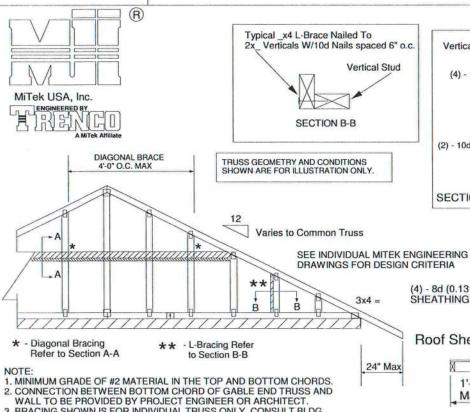
 6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.





Standard Gable End Detail

MII-GE130-D-SP



MiTek USA, Inc. Page 1 of 2 DIAGONAL BRACE 16d Nails Spaced 6" o.c.

2x6 Stud or

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

2x4 No.2 of better

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

2x4 Stud

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

Vertical Stud

(4) - 16d Nails

(2) - 10d Nails into 2x6

SECTION A-A

Roof Sheathing-

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)

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

TYPE TRUSSES.

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE

06-01-13 BY SPIB/ALSC.

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

24" Max	M M
1'-3" Max.	(2) - 10d NAILS
1	Trusses @ 24" o.c.
Diag. Brace at 1/3 points if needed	2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS AND ATTACHED TO BLOCKING WITH (5) - 10d NAILS.
End Wall	HORIZONTAL BRACE (SEE SECTION A-A)

Minimum Stud Size	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
Species and Grade			Maximu	m Stud Le	ngth	
2x4 SP No. 3 / Stud	12" O.C.	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

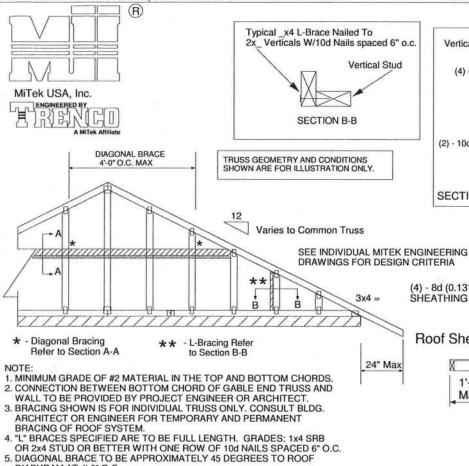
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



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Standard Gable End Detail

MII-GE130-SP



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

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

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

(2) - 10d

Roof Sheathing

1'-3'

DIAPHRAM AT 4'-0" O.C.

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

GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240

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

10. 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")

■ IVIdX.	NAILS/
	/*
Diag. Brace at 1/3 points	2x6 D ATTA NAILS
if needed	ТО ВІ
End Wall	*
and a supple	

DIAGONAL BRACE SPACED 48" O.C. ACHED TO VERTICAL WITH (4) -16d S AND ATTACHED LOCKING WITH (5) - 10d NAILS.

(2) - 10d NAILS

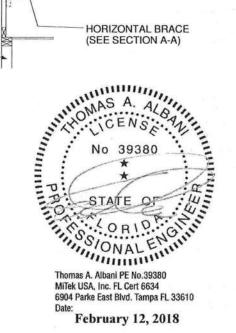
Trusses @ 24" o.c.

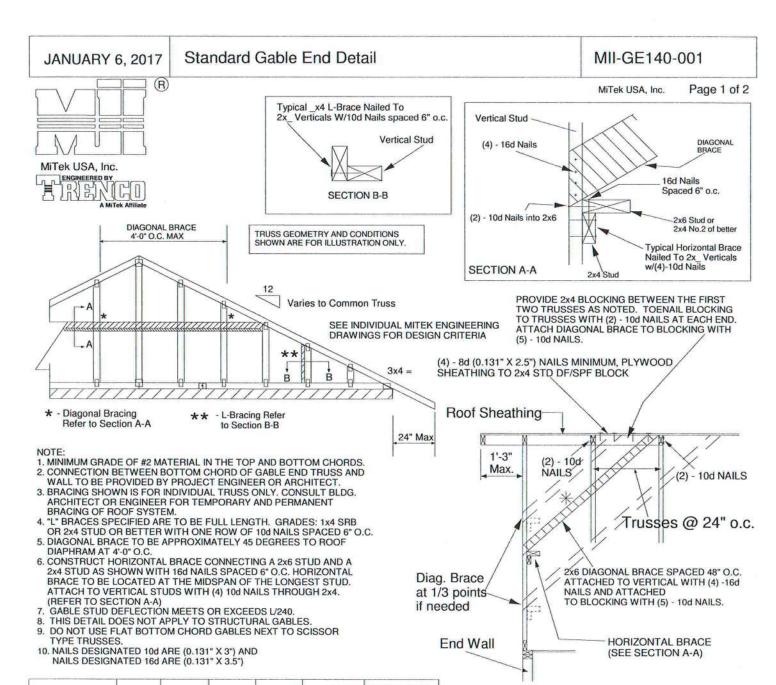
Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS				
and Grade			Maximum Stud Length							
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6				
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1				
2x4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

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

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

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





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

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

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

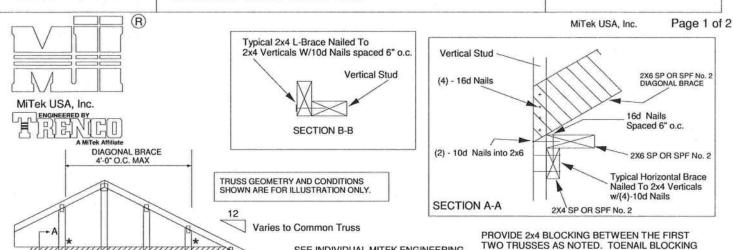
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING CONNECTION OF BRACING IS BASED ON MWFRS.



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-GE170-D-SP



SEE INDIVIDUAL MITEK ENGINEERING

24" Max

DRAWINGS FOR DESIGN CRITERIA

3x4 =

- Diagonal Bracing Refer to Section A-A

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

**

B

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

2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG.

ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.

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

OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.

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

(REFER TO SECTION A-A)
GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

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

TYPE TRUSSES. 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE

06-01-13 BY SPIB/ALSC. 11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS			
Species and Grade		Maximum Stud Length						
2x4 SP No. 3 / Stud	12" O.C.	3-9-7	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			

4-0-7

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 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.

3-1-15

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D ASCE 7-10 170 MPH

2x4 SP No. 2

24" O.C.

DURATION OF LOAD INCREASE: 1.60

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

9-5-14

Roof Sheathing 1'-0" - 10d Max. NAILS (2) - 10d NAILS Trusses @ 24" o.c.

(5) - 10d NAILS.

SHEATHING TO 2x4 STD SPF BLOCK

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

TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH

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

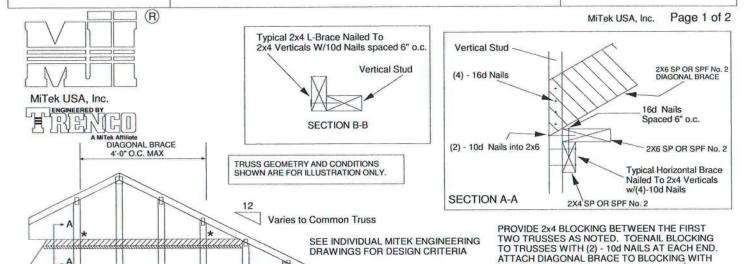
HORIZONTAL BRACE End Wall (SEE SECTION A-A)



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

Standard Gable End Detail

MII-GE180-D-SP



3x4 =

24" Max

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

**

B

NOTE

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

WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.

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

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

OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

DIAPHRAM AT 4'-0" O.C.

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

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

TYPE TRUSSES.

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE

06-01-13 BY SPIB/ALSC. 11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

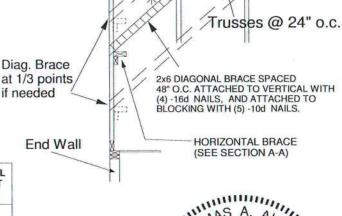
Minimum Stud Size	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS			
Species and Grade	A7855 CCSSC	Maximum Stud Length						
2x4 SP No. 3 / Stud	12" O.C.	3-7-12	5-4-11	6-2-1	10-11-3			
2x4 SP No. 3 / Stud	16" O.C.	3-2-8	4-8-1	6-2-1	9-7-7			
2x4 SP No. 3 / Stud	24" O.C.	2-7-7	3-9-12	5-2-13	7-10-4			
2x4 SP No. 2	12" O.C.	3-10-0	5-4-11	6-2-1	11-6-1			
2x4 SP No. 2	16" O.C.	3-5-13	4-8-1	6-2-1	10-5-7			
2x4 SP No. 2	24" O.C.	3-0-8	3-9-12	6-1-1	9-1-9			

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

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D ASCE 7-10 180 MPH

DURATION OF LOAD INCREASE: 1.60

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



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

- 10d

NAILS

SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

1'-0"

Max.



(2) - 10d NAILS

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(R)

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

DURATION OF LOAD INCREASE: 1.60

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

- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN

- SHALL BE CONNECTED TO EACH PURLIN
 WITH (2) (0.131" X 3.5") TOE-NAILED.

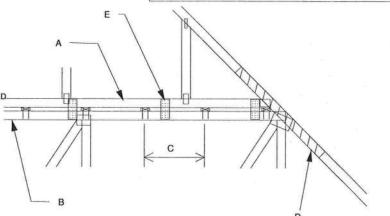
 B BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
 C PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
 UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
 CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.

 D 2 X __ X 4-0" SCAB, SIZE TO MATCH TOP CHORD OF
 PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED.
 ON INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C.
 SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING
 IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH
 DIRECTIONS AND: DIRECTIONS AND:
- DIRECTIONS AND:

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

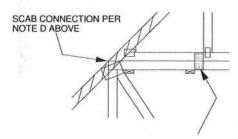
 2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM
 PIGGYBACK SPAN OF 12 It.

 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 REQ. REGARDLESS OF SPAN)

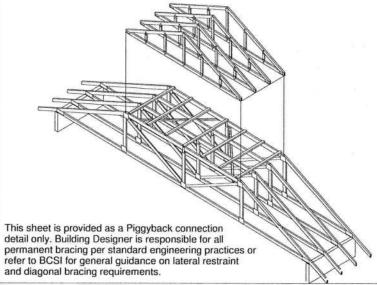


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

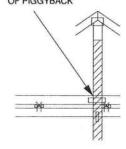
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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



VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



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

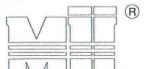
- 1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL
- ATTACH 2 x ___ x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH ATTACH 2 x VERTICAL WEBS OF PIGGYBACK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



Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 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 CONTINUIOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND

1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR 2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 It. E - FOR WIND SPEED IN THE RANGE 126 MPH - 160 MPH

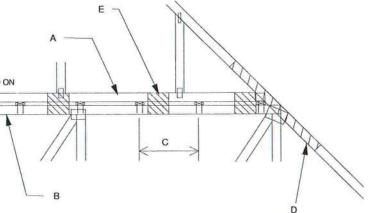
ADD 9" x 9" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)

MiTek USA, Inc. Page 1 of 1 MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 $^{\circ}$ O.C.

CATEGORY II BUILDING EXPOSURE B or C ASCE 7-10

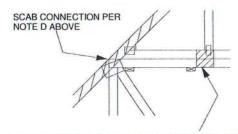
DURATION OF LOAD INCREASE: 1.60

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

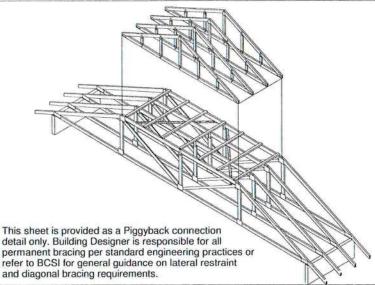


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

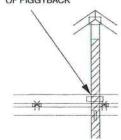
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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



VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



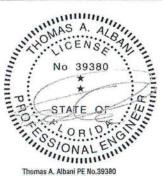
FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

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

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

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

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



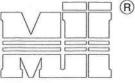
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

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

MII-REP01A1

MiTek USA, Inc.

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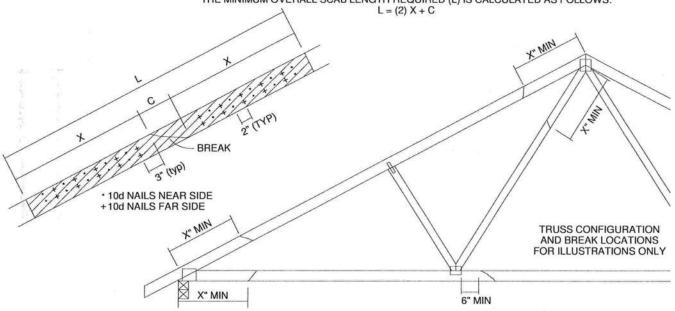
MiTek USA, Inc.
ENGINEERED BY

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

* DIVIDE EQUALLY FRONT AND BACK

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

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



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

DO NOT USE REPAIR FOR JOINT SPLICES

- 1. THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED. 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLING REPAIR
- AND HELD IN PLACE DURING APPLICATION OF REPAIR.
 THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID
- THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
 WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
 THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x_ ORIENTATION ONLY.
 THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



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LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP

MiTek USA, Inc.

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(R)

MiTek USA, Inc. ENGINEERED BY

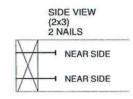
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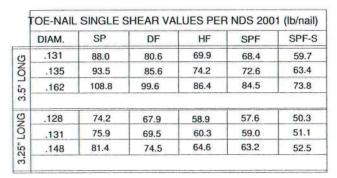
- 1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.

 2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO ANYON UNIVERSITY OF THE WOOD.
- AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
- 3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY



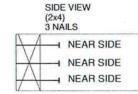


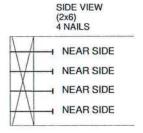
VALUES SHOWN ARE CAPACITY PER TOE-NAIL. APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

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

For load duration increase of 1.15:

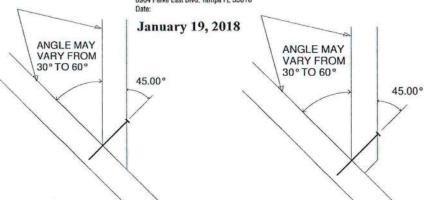
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

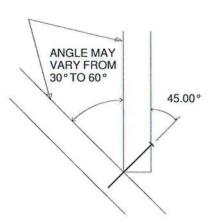






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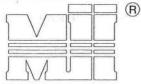


TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

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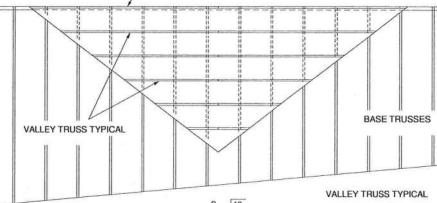
GABLE END, COMMON TRUSS OR GIRDER TRUSS

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
- 4. BRACE VALLEY WEBS IN ACCOMDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.

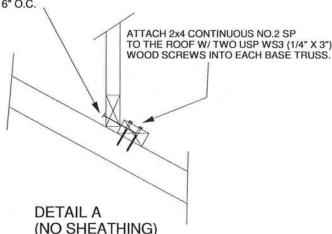
 5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.

 6. NAILING DONE PER NDS 01
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



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

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



N.T.S.

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



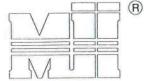
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TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2

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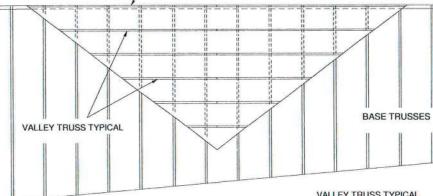


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GABLE END, COMMON TRUSS OR GIRDER TRUSS

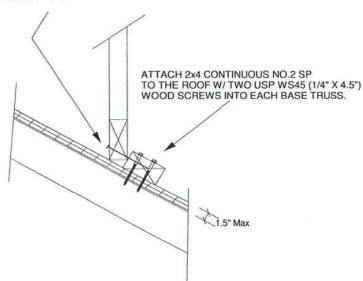
GENERAL SPECIFICATIONS

- NAIL SIZE 10d (0.131" X 3")
 WOOD SCREW = 4.5" WS45 USP OR EQUILIVANT
 INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
 INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE TO BASE TRUSSES AS PER DETAIL A
 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.

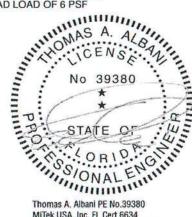


GABLE END, COMMON TRUSS OR GIRDER TRUSS VALLEY TRUSS TYPICAL 12 SEE DETAIL A BELOW (TYP.)

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



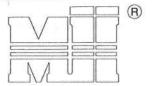
WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING **EXPOSURE C** WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY)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



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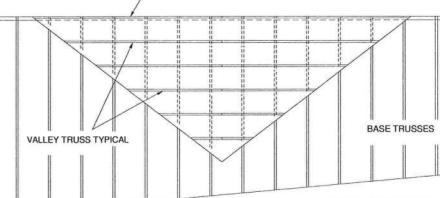
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GABLE END, COMMON TRUSS OR GIRDER TRUSS

GENERAL SPECIFICATIONS

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



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

SECURE VALLEY TRUSS W/ ONE ROW OF 16d NAILS 6" O.C. ATTACH 2x4 CONTINUOUS NO.2 SP TO THE ROOF W/ TWO 16d NAILS INTO EACH BASE TRUSS.

DETAIL A (MAXIMUM 1" SHEATHING) N.T.S.

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

ON THE TRUSSES

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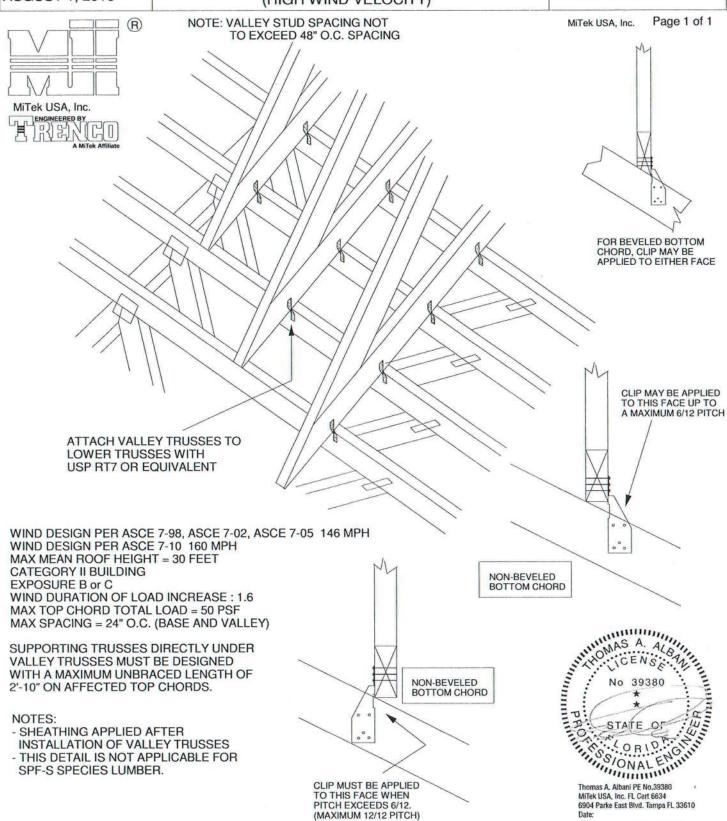
Thomas A Albani PE No.3938

MiTek USA Inc. ONAL ENGIN

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

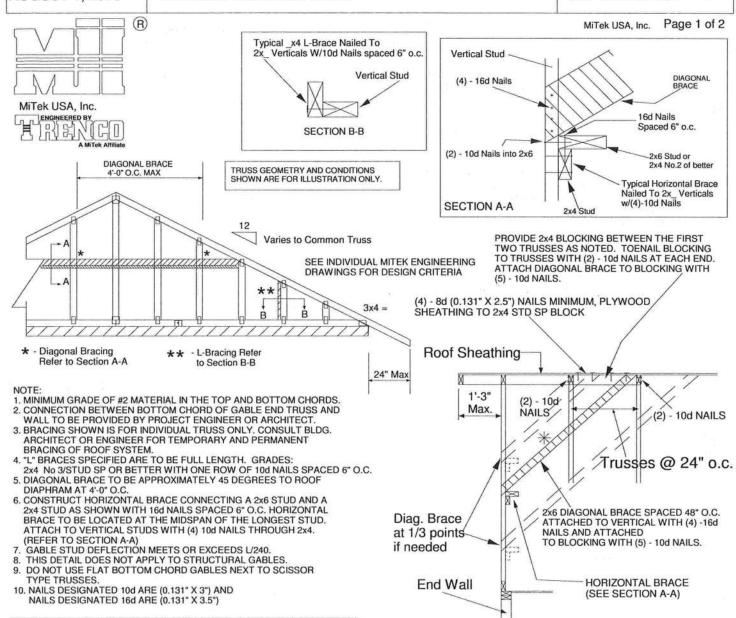
TRUSSED VALLEY SET DETAIL (HIGH WIND VELOCITY)

MII-VALLEY



Standard Gable End Detail

MII-GE146-001

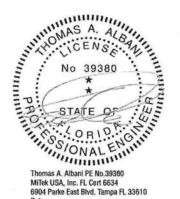


Minimum Stud Size	Stud Spacing	Without 2x4 Brace L-Brace		DIAGONAL BRACE	2 DIAGONAI BRACES AT 1/3 POINTS		
Species and Grade		Maximum Stud Length					
2x4 SP No 3/Stud	12" O.C.	3-11-3	6-8-0	7-2-14	11-9-10		
2x4 SP No 3/Stud	16" O.C.	3-6-14	5-9-5	7-1-13	10-8-11		
2x4 SP No 3/Stud	24" O.C.	3-1-8	4-8-9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



OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B

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TRUSS CRITERIA:

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

HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL

END BEARING CONDITION

NOTES:

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

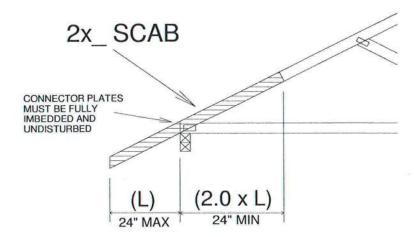
TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.

TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.

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

WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED.

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



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

REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



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LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

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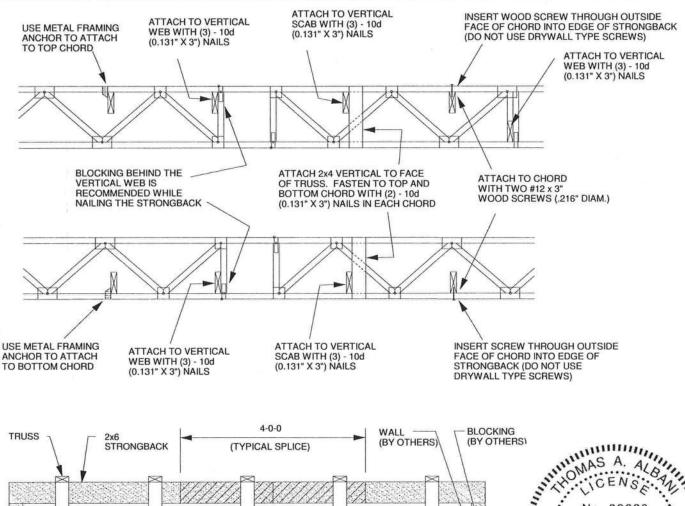
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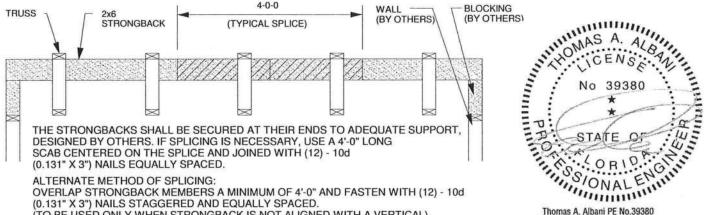


TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS. 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

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

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





OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d (0.131" X 3") NAILS STAGGERED AND EQUALLY SPACED. (TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)

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