



RE: 2932802 - IC CONST. - SPENCE RES.

MiTek USA, Inc. 6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Spence Res. Model: Custom

Lot/Block: N/A Subdivision: N/A

Address: 313 SW Cross Pointe Court, N/A

City: Columbia Cty State: FL

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

Name: License #:

Address:

City: State:

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

Design Code: 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: N/A psf

This package includes 31 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 12 22 22 22 22 22 22 22 22 22 22 22 22	T25355917 T25355918 T25355919 T25355920 T25355921 T25355923 T25355925 T25355926 T25355926 T25355928 T25355929 T25355930 T25355931 T25355931 T25355933 T25355933 T25355934 T25355935 T25355937 T25355937 T25355937	CJ01 CJ03 CJ05 EJ01 HJ10 PB01 T01 T02 T03 T04 T05 T06 T07 T08 T09 T10 T11 T12 T13 T14 T15 T16	9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21	23 24 25 26 27 28 29 30 31	T25355939 T25355940 T25355941 T25355942 T25355943 T25355945 T25355946 T25355947	T17 T18 T19 T20 T21 T22 T23 T24 T25	9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21 9/15/21

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.

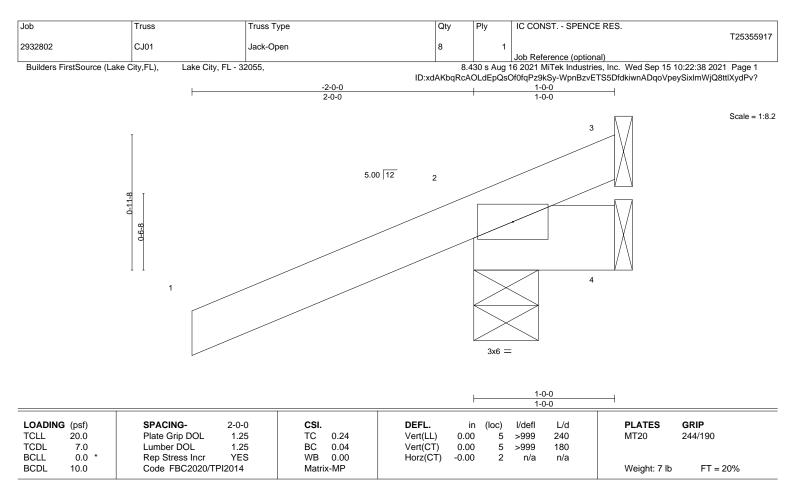
Truss Design Engineer's Name: Velez, Joaquin

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.



September 15,2021



**BRACING-**

**TOP CHORD** 

**BOT CHORD** 

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2

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

Max Horz 2=40(LC 8) Max Uplift 3=-9(LC 1), 2=-129(LC 8), 4=-64(LC 1)

Max Grav 3=8(LC 8), 2=254(LC 1), 4=40(LC 8)

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

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp 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
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 3, 129 lb uplift at joint 2 and 64 lb uplift at joint 4.



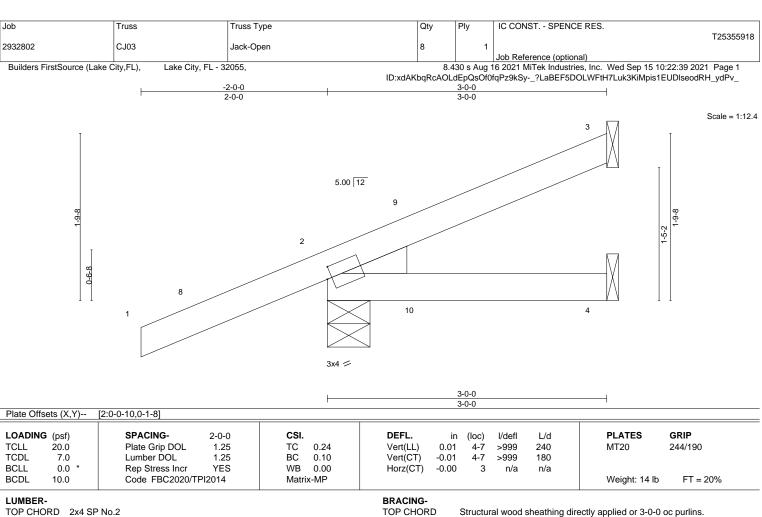
Structural wood sheathing directly applied or 1-0-0 oc purlins.

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

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**BOT CHORD** 

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

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

WEDGE Left: 2x4 SP No.3

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

Max Horz 2=67(LC 12)

Max Uplift 3=-33(LC 12), 2=-107(LC 8), 4=-15(LC 9) Max Grav 3=54(LC 1), 2=253(LC 1), 4=49(LC 3)

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

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 zone; 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 3, 107 lb uplift at joint 2 and 15 lb uplift at joint 4.



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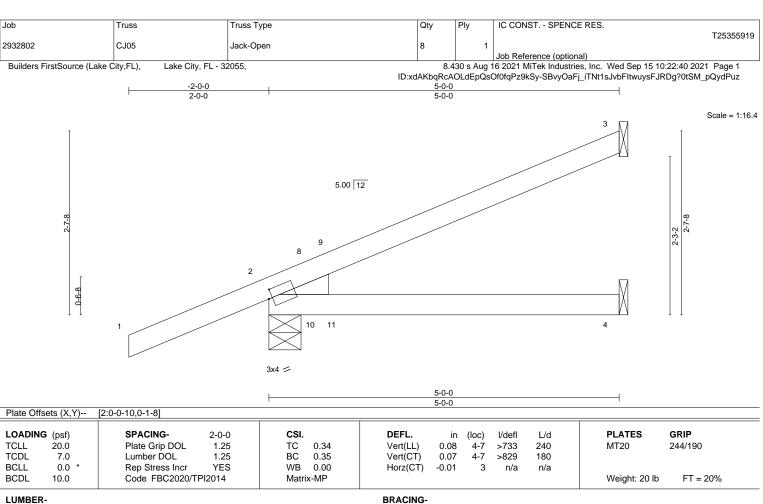


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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 chorembers 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





TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEDGE Left: 2x4 SP No.3

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

Max Horz 2=95(LC 12)

Max Uplift 3=-63(LC 12), 2=-121(LC 8), 4=-28(LC 9) Max Grav 3=111(LC 1), 2=313(LC 1), 4=88(LC 3)

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

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 63 lb uplift at joint 3, 121 lb uplift at joint 2 and 28 lb uplift at joint 4.

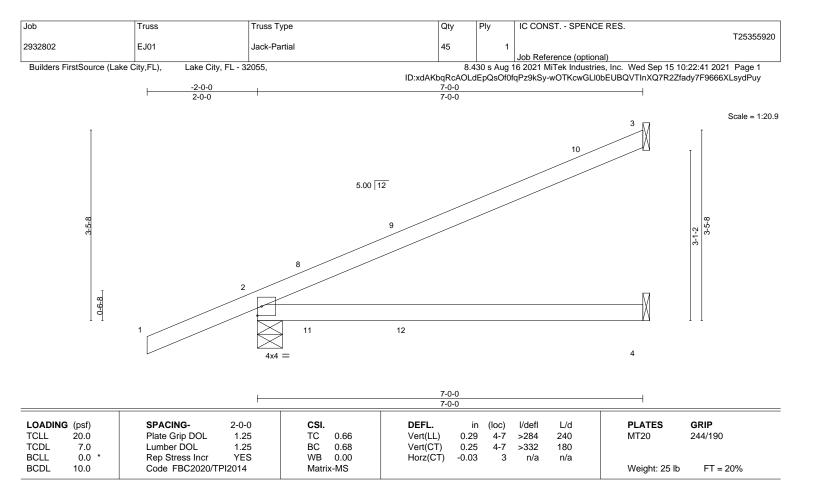


Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

September 15,2021





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 10-0-0 oc bracing.

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

Max Horz 2=120(LC 12)

Max Uplift 3=-81(LC 12), 2=-140(LC 8), 4=-40(LC 9) Max Grav 3=163(LC 1), 2=380(LC 1), 4=126(LC 3)

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

### NOTES-

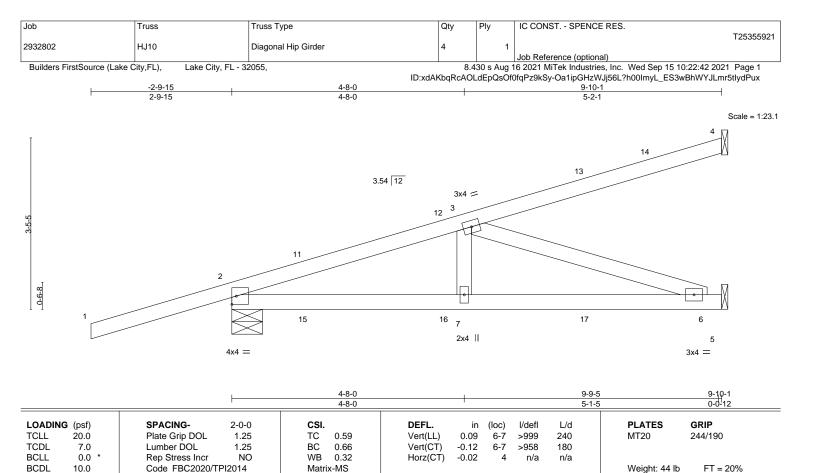
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II: Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 3, 140 lb uplift at joint 2 and 40 lb uplift at joint 4.



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**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WFBS

REACTIONS.

(size) 4=Mechanical, 2=0-7-6, 5=Mechanical

Max Horz 2=133(LC 4)

Max Uplift 4=-77(LC 4), 2=-228(LC 4), 5=-138(LC 5) Max Grav 4=151(LC 1), 2=461(LC 1), 5=265(LC 3)

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

TOP CHORD 2-3=-614/303

**BOT CHORD** 2-7=-321/559 6-7=-321/559

3-6=-589/339 WEBS

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp 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 77 lb uplift at joint 4, 228 lb uplift at joint 2 and 138 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 48 lb down and 85 lb up at 1-6-1, 48 lb down and 85 lb up at 1-6-1, 20 lb down and 35 lb up at 4-4-0, 20 lb down and 35 lb up at 4-4-0, and 41 lb down and 74 lb up at 7-1-15, and 41 lb down and 74 lb up at 7-1-15 on top chord, and 57 lb down and 92 lb up at 1-6-1, 57 lb down and 92 lb up at 1-6-1, 42 lb down and 21 lb up at 4-4-0, 42 lb down and 21 lb up at 4-4-0, and 39 lb down and 42 lb up at 7-1-15, and 39 lb down and 42 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 11=42(F=21, B=21) 13=-68(F=-34, B=-34) 15=77(F=39, B=39) 16=8(F=4, B=4) 17=-44(F=-22, B=-22)



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

Rigid ceiling directly applied or 9-10-12 oc bracing

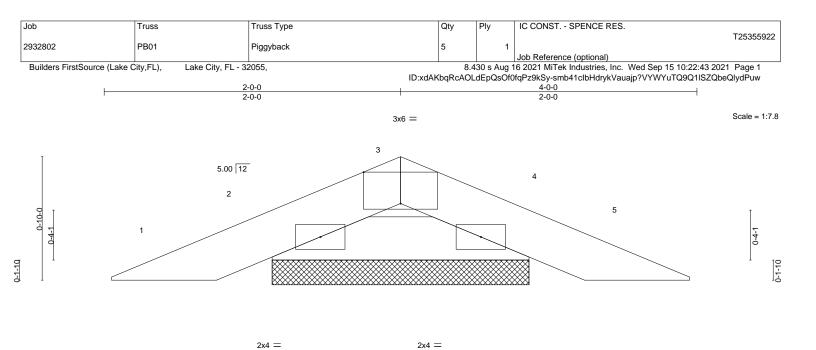
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

September 15,2021

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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 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





4-0-0 Plate Offsets (X,Y)--[3:0-3-0,Edge] LOADING (psf) SPACING-2-0-0 CSI **DEFL** I/defI L/d **PLATES** GRIP (loc) TCLL Plate Grip DOL 1.25 TC 0.03 Vert(LL) -0.00 120 MT20 244/190 20.0 n/r TCDL 1.25 вс 0.03 Vert(CT) -0.00 4 120 7.0 Lumber DOL n/r **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a **BCDL** 10.0 Code FBC2020/TPI2014 Matrix-P Weight: 9 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

(size)

Max Horz 2=10(LC 12) Max Uplift 2=-32(LC 8), 4=-32(LC 9) Max Grav 2=104(LC 1), 4=104(LC 1)

2=1-8-13, 4=1-8-13

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=20ft; 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.
- Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 2 and 32 lb uplift at joint 4.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

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

September 15,2021

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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



Qty IC CONST. - SPENCE RES. Job Truss Truss Type Plv T25355923 2932802 T01 Hip Girder 2 Job Reference (optional)

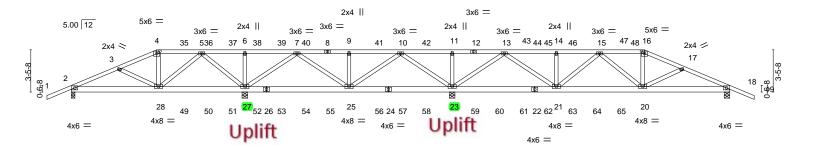
Builders FirstSource (Lake City,FL),

Lake City, FL - 32055.

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:22:53 2021 Page 1

ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-aiBs71Ptwi6Xw1LpAq\_LvfxA1VlimS5wsz0AmAydPum |<del>-2-0-0|</del> | <del>2-0-0|</del> 7-0-0 10-8-4 14-2-12 39-9-4 43-3-12 47-0-0 50-0-10 31-2-12 35-6-0 3-0-10 3-11-6 3-8-4 3-6-8 4-3-4 4-3-4 4-2-12 4-2-12 4-3-4 4-3-4 3-6-8 3-8-4 3-0-10 3-11-6 2-0-0

Scale = 1:94.5



	7-0	-	14-2-12 7-2-12	-	22-9-4 8-6-8	-	31-2-12 8-5-8	39-9- 8-6-8		47-0-0 7-2-12		0-0 0-0
Plate Offse	ts (X,Y)	[4:0-3-0,0	-2-4], [16:0-3-0,0	)-2-4]					-			
LOADING TCLL TCDL BCLL BCDL	(psf) 20.0 7.0 0.0 * 10.0	Pla Lur Re	ACING- ate Grip DOL mber DOL p Stress Incr de FBC2020/TF	2-0-0 1.25 1.25 NO PI2014	CSI. TC BC WB Matri:	0.44 0.34 0.39 k-MS	Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.07 20-21 -0.11 20-21 0.02 18	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 639 lb	<b>GRIP</b> 244/190 FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 2x6 SP No 2 BOT CHORD WFBS 2x4 SP No.3 **BRACING-**

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

6-0-0 oc bracing: 25-27,23-25.

REACTIONS. All bearings 0-5-8 except (jt=length) 2=0-3-8.

(lb) - Max Horz 2=-56(LC 28)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-324(LC 4), 27=-1170(LC 4), 23=-1640(LC 5),

18=-577(LC 9)

Max Grav All reactions 250 lb or less at joint(s) except 2=714(LC 1), 27=2495(LC 19), 23=3689(LC 20),

18=1368(LC 1)

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

TOP CHORD 2-3=-1065/489, 3-4=-876/459, 4-5=-778/436, 5-6=-398/915, 6-7=-398/915,

7-9=-347/178, 9-10=-347/178, 10-11=-884/2048, 11-13=-884/2048, 13-14=-1872/909,

14-15=-1872/909, 15-16=-2278/1098, 16-17=-2461/1155, 17-18=-2611/1189

**BOT CHORD**  $2 - 28 = -412/947, \ 23 - 25 = -563/353, \ 21 - 23 = -76/256, \ 20 - 21 = -993/2307, \ 18 - 20 = -1025/2358$ **WEBS** 5-28=-395/820, 5-27=-1423/694, 6-27=-432/213, 7-27=-1181/555, 7-25=-155/437,

9-25=-459/229, 10-25=-462/1109, 10-23=-1855/832, 11-23=-484/240, 13-23=-2818/1294,

13-21=-897/2013, 14-21=-412/203, 15-21=-578/277, 16-20=-234/587

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

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

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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 324 lb uplift at joint 2, 1170 lb uplift at joint 27, 1640 lb uplift at joint 23 and 577 lb uplift at joint 18.



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

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### Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	IC CONST SPENCE RES.	٦
0000000	T04	His Circles			T25355923	3
2932802	T01	Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:22:53 2021 Page 2  $ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-aiBs71Ptwi6Xw1LpAq\_LvfxA1VIimS5wsz0AmAydPum$ 

### NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 85 lb up at 7-0-0, 109 lb down and 85 lb up at 9-0-12, 109 lb down and 85 lb up at 11-0-12, 109 lb down and 85 lb up at 11-0-12, 109 lb down and 85 lb up at 15-0-12, 109 down and 85 lb up at 19-0-12, 109 lb down and 85 lb up at 21-0-12, 109 lb down and 85 lb up at 23-0-12, 109 lb down and 85 lb up at 25-0-12, 109 lb down and 85 up at 27-0-0, 109 lb down and 85 lb up at 28-11-4, 109 lb down and 85 lb up at 30-11-4, 109 lb down and 85 lb up at 32-11-4, 109 lb down and 85 lb up at 34-11-4, 109 lb down and 85 lb up at 36-11-4, 109 lb down and 85 lb up at 38-11-4, 109 lb down and 85 lb up at 40-11-4, 109 lb down and 85 lb up at 42-11-4, and 109 lb down and 85 lb up at 44-11-4, and 231 lb down and 169 lb up at 47-0-0 on top chord, and 295 lb down and 230 lb up at 7-0-0, 86 lb down and 60 lb up at 9-0-12, 86 lb down and 60 lb up at 11-0-12, 86 lb down and 60 lb up at 13-0-12, 86 lb down and 60 lb up at 15-0-12, 86 lb down and 60 lb up at 17-0-12, 86 lb down and 60 lb up at 17-0-12, 86 lb down and 60 lb up at 19-0-12, 86 lb down and 60 lb up at 21-0-12, 86 lb down and 60 lb up at 23-0-12, 86 lb down and 60 lb up at 25-0-12, 86 lb down and 60 lb up at 27-0-0, 86 lb down and 60 lb up at 28-11-4, 86 lb down and 60 lb up at 30-11-4, 86 lb down and 60 lb up at 32-11-4, 86 lb down and 60 lb up at 34-11-4, 86 lb down and 60 lb up at 36-11-4, 86 lb down and 60 lb up at 38-11-4, 86 lb down and 60 lb up at 40-11-4, 86 lb down and 60 lb up at 42-11-4, and 86 lb down and 60 lb up at 44-11-4, and 295 lb down and 230 lb up at 46-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

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

Vert: 1-4=-54 4-16=-54 16-19=-54 29-32=-20

Concentrated Loads (lb)



Qty Ply IC CONST. - SPENCE RES. Job Truss Truss Type T25355924 2932802 T02 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:22:55 2021 Page 1

6-0-0

27-0-0

6-0-0

21-0-0

6-9-4

ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-W4JdYjR7SJMFALVBHF1p\_40ThIRxEIZDKHVHr2ydPuk 33-0-0 39-9-4 45-0-0 49-1-14 54-0-0

5-2-12

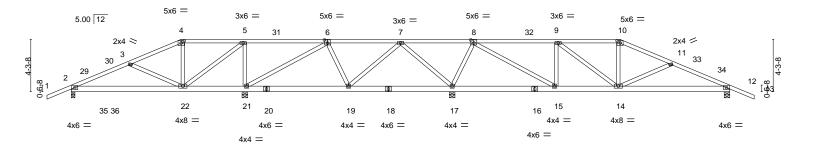
4-1-14

6-9-4

Scale = 1:94.5

2-0-0

4-10-2



				39-9-4	45-0-0	54-0-0	
0-0 ' 5-2-12	2 '	8-6-0	8-6-0	8-6-8	5-2-12	9-0-0	
:0-3-0,0-2-4], [6:0-3-0,0-	3-0], [8:0-3-0,0	0-3-0], [10:0-3-0,0	)-2-4]				
SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
Plate Grip DOL	1.25	TC 0.5	5 Vert(LL)	0.10 22-25 >999	240	MT20	244/190
Lumber DOL	1.25	BC 0.3	5 Vert(CT)	-0.12 14-28 >999	180		
Rep Stress Incr	YES	WB 0.6	5 Horz(CT)	0.01 12 n/a	n/a		
Code FBC2020/TF	12014	Matrix-MS	;			Weight: 319 lb	FT = 20%
	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	SPACING-         2-0-0           Plate Grip DOL         1.25           Lumber DOL         1.25	SPACING-         2-0-0         CSI.           Plate Grip DOL         1.25         TC 0.5           Lumber DOL         1.25         BC 0.3           Rep Stress Incr         YES         WB 0.6	Plate Grip DOL         1.25         TC         0.55         Vert(LL)           Lumber DOL         1.25         BC         0.35         Vert(CT)           Rep Stress Incr         YES         WB         0.65         Horz(CT)	SPACING-         2-0-0         CSI.         DEFL.         in (loc)         l/defl           Plate Grip DOL         1.25         TC         0.55         Vert(LL)         0.10 22-25         >999           Lumber DOL         1.25         BC         0.35         Vert(CT)         -0.12 14-28         >999           Rep Stress Incr         YES         WB         0.65         Horz(CT)         0.01         12         n/a	SPACING-         2-0-0         CSI.         DEFL.         in (loc)         l/defl         L/d           Plate Grip DOL         1.25         TC         0.55         Vert(LL)         0.10         22-25         >999         240           Lumber DOL         1.25         BC         0.35         Vert(CT)         -0.12         14-28         >999         180           Rep Stress Incr         YES         WB         0.65         Horz(CT)         0.01         12         n/a         n/a	SPACING-         2-0-0         CSI.         DEFL.         in (loc)         l/defl         L/d         PLATES           Plate Grip DOL         1.25         TC         0.55         Vert(LL)         0.10 22-25         >999         240         MT20           Lumber DOL         1.25         BC         0.35         Vert(CT)         -0.12 14-28         >999         180           Rep Stress Incr         YES         WB         0.65         Horz(CT)         0.01         12         n/a         n/a

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-3-1 oc purlins. 2x6 SP No 2 **BOT CHORD BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-5-8 except (jt=length) 2=0-3-8.

Max Horz 2=68(LC 12)

2x4 SP No.3

Max Uplift All uplift 100 lb or less at joint(s) except 2=-225(LC 8), 21=-415(LC 8), 17=-431(LC 9), 12=-240(LC

13)

Max Grav All reactions 250 lb or less at joint(s) except 2=543(LC 1), 21=1165(LC 23), 17=1742(LC 24), 12=812(LC

1)

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

TOP CHORD 2-3=-604/601, 3-4=-302/459, 4-5=-233/445, 5-6=-82/280, 7-8=-158/792, 8-9=-676/271,

9-10=-851/296, 10-11=-966/295, 11-12=-1253/392

BOT CHORD  $2-22 = -495/525, \ 21-22 = -280/236, \ 15-17 = -359/148, \ 14-15 = -116/676, \ 12-14 = -292/1118$ **WEBS** 3-22=-323/231, 5-22=-663/639, 5-21=-745/533, 6-21=-551/200, 7-19=-42/420,

7-17=-870/260, 8-17=-1050/356, 8-15=-294/1195, 9-15=-480/184, 11-14=-300/166

### NOTES-

WFBS

2-0-0

4-10-2

4-10-2

4-1-14

5-2-12

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 3-4-13, Interior(1) 3-4-13 to 9-0-0, Exterior(2R) 9-0-0 to 16-7-10, Interior(1) 16-7-10 to 45-0-0, Exterior(2R) 45-0-0 to 52-7-10, Interior(1) 52-7-10 to 56-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 2, 415 lb uplift at joint 21, 431 lb uplift at joint 17 and 240 lb uplift at joint 12.



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

September 15,2021

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



Qty Ply IC CONST. - SPENCE RES. Job Truss Truss Type T25355925 2932802 T03 Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:22:56 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-\_Gt?l2SIDcU6nV4OryY2XIZagipszipMZxEqNVydPuj 35-0-0 2-0-0 . 43-0-0 48-6-0 54-0-0 11-0-0 19-0-0 27-0-0

8-0-0

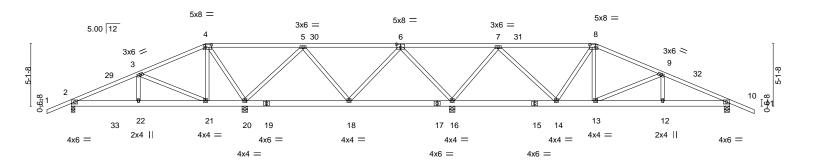
8-0-0

5-6-0

8-0-0

2-0-0 Scale = 1:94.5

5-6-0



	5-6-0	11-0-0	14-2-12	22-9-4	31-2-12	39-9-4	43-0-0	48-6-0	54-0-0
	5-6-0	5-6-0	3-2-12	8-6-8	8-5-8	8-6-8	3-2-12	5-6-0	5-6-0
Plate Offse	ets (X,Y)	[4:0-5-12,0-2-8], [6:0-4	-0,0-3-0], [8:0-5-	12,0-2-8]					
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.7	9 Vert(LL)	-0.04 12-13 >999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.2	vert(CT)	-0.08 12-13 >999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.8	4 Horz(CT)	0.02 10 n/a	n/a		
BCDL	10.0	Code FBC2020	)/TPI2014	Matrix-MS	3			Weight: 323 lb	FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-2-0 oc purlins. 2x6 SP No 2 **BOT CHORD BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

WFBS 2x4 SP No.3

5-6-0

5-6-0

8-0-0

REACTIONS. All bearings 0-5-8 except (jt=length) 2=0-3-8.

Max Horz 2=81(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-209(LC 8), 20=-423(LC 8), 16=-412(LC 9), 10=-236(LC

13)

Max Grav All reactions 250 lb or less at joint(s) except 2=510(LC 1), 20=1228(LC 23), 16=1756(LC 24), 10=800(LC 1)

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

TOP CHORD 2-3=-558/613, 4-5=-210/413, 6-7=-119/737, 7-8=-445/199, 8-9=-775/265,

9-10=-1240/349

2-22=-490/470, 21-22=-490/470, 13-14=-94/670, 12-13=-249/1098, 10-12=-249/1098 BOT CHORD **WEBS** 

3-22=-281/245, 3-21=-528/571, 4-21=-459/273, 4-20=-722/655, 5-20=-670/259,

6-18=-3/324, 6-16=-870/258, 7-16=-1173/387, 7-14=-101/638, 8-14=-402/139,

8-13=-55/285, 9-13=-475/171

### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 3-4-13, Interior(1) 3-4-13 to 11-0-0, Exterior(2R) 11-0-0 to 18-7-10, Interior(1) 18-7-10 to 43-0-0, Exterior(2R) 43-0-0 to 50-7-10, Interior(1) 50-7-10 to 56-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 209 lb uplift at joint 2, 423 lb uplift at joint 20, 412 lb uplift at joint 16 and 236 lb uplift at joint 10.



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September 15,2021

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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 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



Qty Ply IC CONST. - SPENCE RES. Job Truss Truss Type T25355926 2932802 T04 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:22:58 2021 Page 1 ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-wf?IAkT?kEkq1oEmyNaWcjezjWSoRaLf0FjxRNydPuh

34-0-0

7-0-0

41-0-0

7-0-0

46-6-0

5-6-0

27-0-0

7-0-0

20-0-0

7-0-0

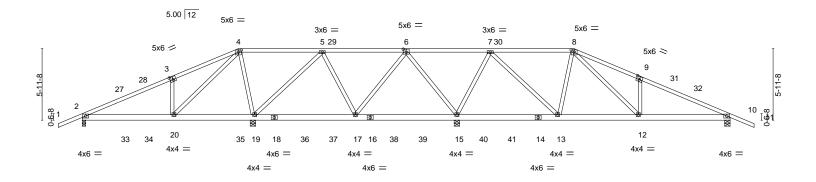
5-6-0

56-0-0 2-0-0

Scale: 1/8"=1

54-0-0

7-6-0



		7-6-0 14-2	-12	22-9-4	31-2-12	39-9-4	46-6-0	54-0-0	1
	1	7-6-0 6-8-	12	8-6-8	8-5-8	8-6-8	6-8-12	7-6-0	<u> </u>
Plate Offse	ets (X,Y)	[3:0-3-0,0-3-0], [4:0-3-0,	0-2-4], [6:0-3-	0,0-3-0], [8:0-3-0,0-2-	4], [9:0-3-0,0-3-0]				
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d I	PLATES GRIP	
	20.0	Plate Grip DOL	1.25	TC 0.63	Vert(LL)	0.06 20-23 >999	240	MT20 244/190	
TCDL	7.0	Lumber DOL	1.25	BC 0.34	Vert(CT)	-0.10 12-26 >999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.01 10 n/a	n/a		
BCDL	10.0	Code FBC2020/	ΓPI2014	Matrix-MS			'	Weight: 324 lb $FT = 2$	:0%

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 4-11-9 oc purlins. 2x6 SP No 2 **BOT CHORD BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-5-8 except (jt=length) 2=0-3-8.

Max Horz 2=-93(LC 13)

2x4 SP No.3

All uplift 100 lb or less at joint(s) except 2=-203(LC 8), 19=-415(LC 8), 15=-399(LC 13), 10=-235(LC Max Uplift

Max Grav All reactions 250 lb or less at joint(s) except 2=510(LC 23), 19=1335(LC 25), 15=1963(LC 26),

10=815(LC 26)

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

TOP CHORD  $2 - 3 = -448/458, \ 3 - 4 = -446/553, \ 4 - 5 = -167/362, \ 6 - 7 = -72/701, \ 7 - 8 = -422/202, \ 8 - 9 = -1186/425, \ 3 - 4 = -446/553, \ 4 - 5 = -167/362, \ 6 - 7 = -72/701, \ 7 - 8 = -422/202, \ 8 - 9 = -1186/425, \ 6 - 7 = -72/701, \ 7 - 8 = -422/202, \ 8 - 9 = -1186/425, \ 6 - 7 = -72/701, \ 7 - 8 = -422/202, \ 8 - 9 = -1186/425, \ 6 - 7 = -72/701, \ 7 - 8 = -422/202, \ 8 - 9 = -1186/425, \ 6 - 7 = -72/701, \ 7 - 8 = -422/202, \ 8 - 9 = -1186/425, \ 6 - 7 = -72/701, \ 7 - 8 = -422/202, \ 8 - 9 = -1186/425, \ 6 - 7 = -72/701, \ 7 - 8 = -422/202, \ 8 - 9 = -1186/425, \ 6 - 7 = -72/701, \ 7 - 8 = -422/202, \ 8 - 9 = -1186/425, \ 7 - 100/202, \ 7 - 100/2$ 

9-10=-1189/324

BOT CHORD 2-20=-333/397, 19-20=-206/253, 12-13=-28/503, 10-12=-206/1044

**WEBS** 3-20=-361/214, 4-20=-838/805, 4-19=-702/513, 5-19=-568/204, 6-17=-10/440,

6-15=-809/221, 7-15=-1074/353, 7-13=-162/899, 8-13=-410/165, 8-12=-256/773,

9-12=-356/212

### NOTES-

WFBS

-2-0-0 2-0-0

7-6-0

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 3-4-13, Interior(1) 3-4-13 to 13-0-0, Exterior(2R) 13-0-0 to 20-7-10, Interior(1) 20-7-10 to 41-0-0, Exterior(2R) 41-0-0 to 48-7-10, Interior(1) 48-7-10 to 56-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 203 lb uplift at joint 2, 415 lb uplift at joint 19, 399 lb uplift at joint 15 and 235 lb uplift at joint 10.



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September 15,2021

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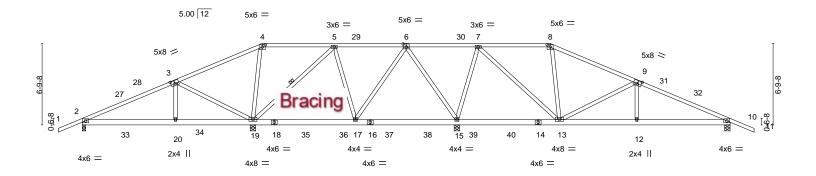
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type Ply IC CONST. - SPENCE RES. Job Truss Qtv T25355927 2932802 T05 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:00 2021 Page 1 Lake City, FL - 32055

ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-t27WbQVGGr\_YG6N94oc\_h8kJcJ8FvWlyTZC2WGydPuf -2-0-0 2-0-0 21-0-0 27-0-0 33-0-0 39-0-0 46-2-11 54-0-0 7-9-5 7-2-11 6-0-0 6-0-0 6-0-0 6-0-0 7-2-11 7-9-5 2-0-0

Scale: 1/8"=1



<u> </u>		2-12 8-12	22-9-4 8-6-8	31-2-12 8-5-8	39-9-4 8-6-8	46-6-0 6-8-12	7-6-0	
Plate Offsets (X,Y)			3-0,0-3-0], [8:0-3-0,0-2-		8-0-8	6-8-12	7-6-0	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL 20.0 TCDL 7.0	Plate Grip DOL Lumber DOL	1.25 1.25	TC 0.61 BC 0.35	Vert(LL) Vert(CT)	0.06 20-23 >999 -0.10 12-26 >999	240 180	MT20	244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Inci Code FBC2020		WB 0.87 Matrix-MS	Horz(CT)	0.01 10 n/a	n/a	Weight: 332 lb	FT = 20%

WFBS

1 Row at midpt

5-19

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-0-6 oc purlins. **BOT CHORD** 2x6 SP No 2 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. 2x4 SP No.3

REACTIONS. All bearings 0-5-8 except (jt=length) 2=0-3-8.

Max Horz 2=-106(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-203(LC 8), 19=-399(LC 8), 15=-392(LC 13), 10=-235(LC

Max Grav All reactions 250 lb or less at joint(s) except 2=517(LC 25), 19=1335(LC 25), 15=1997(LC 26),

10=816(LC 26)

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

TOP CHORD 2-3=-464/446, 3-4=-177/385, 4-5=-83/271, 6-7=-35/605, 7-8=-411/230, 8-9=-502/199,

9-10=-1191/336

BOT CHORD 2-20=-326/415, 19-20=-338/424, 13-15=-334/178, 12-13=-218/1057, 10-12=-219/1049 **WEBS** 3-20=-390/301, 3-19=-763/751, 4-19=-451/197, 5-19=-472/148, 6-17=-19/462,

6-15=-767/193, 7-15=-1016/337, 7-13=-231/1021, 9-13=-740/268, 9-12=0/290

### NOTES-

WFBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 3-4-13, Interior(1) 3-4-13 to 15-0-0, Exterior(2R) 15-0-0 to 22-7-10, Interior(1) 22-7-10 to 39-0-0, Exterior(2R) 39-0-0 to 46-7-10, Interior(1) 46-7-10 to 56-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 203 lb uplift at joint 2, 399 lb uplift at joint 19, 392 lb uplift at joint 15 and 235 lb uplift at joint 10.



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

September 15,2021

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



Qty Ply IC CONST. - SPENCE RES. Job Truss Truss Type T25355928 2932802 T06 Hip Job Reference (optional)

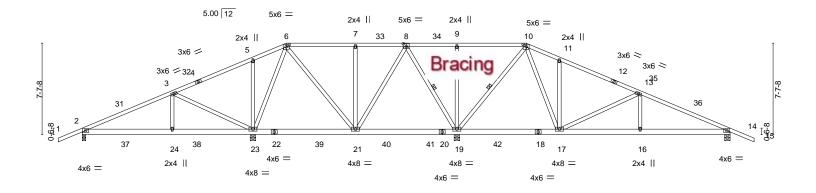
Builders FirstSource (Lake City,FL),

Lake City, FL - 32055

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:02 2021 Page 1

ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-pQEG06WWoSEFWQXXBDfSmZphl7q0NRPFxth9b8ydPud -2-0-0 2-0-0 31-2-12 37-0-0 39-9-4 46-6-0 17-0-0 54-0-0 56-0-0 7-6-0 6-8-12 2-9-4 5-9-4 4-2-12 4-2-12 5-9-4 2-9-4 6-8-12 7-6-0 2-0-0

Scale: 1/8"=1



	7-6-0	14-2-12	22-9-4	31-2-12	39-9-4	46-6-0	54-0-0	
	7-6-0	6-8-12	8-6-8	8-5-8	8-6-8	6-8-12	7-6-0	
Plate Offsets (X,	/) [6:0-3-0,0-2-4	I], [8:0-3-0,0-3-0], [1	):0-3-0,0-2-4]					
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 BCDL 10.0	* Rep S	ING- 2-0-0 Grip DOL 1.25 er DOL 1.25 tress Incr YES FBC2020/TPI2014	CSI. TC 0.50 BC 0.33 WB 0.77 Matrix-MS	- ( /	in (loc) I/defl -0.05 16-30 >999 -0.09 16-30 >999 0.01 14 n/a	240 Mi 180 n/a	<b>LATES GRIP</b> T20 244/190 FT = 20%	6

LUMBER-

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

2x4 SP No.3

**BRACING-**

WEBS

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 5-2-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 21-23,19-21. 1 Row at midpt 8-19, 10-19

REACTIONS. All bearings 0-5-8 except (jt=length) 2=0-3-8.

Max Horz 2=-118(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-204(LC 8), 23=-369(LC 8), 19=-422(LC 13), 14=-221(LC

Max Grav All reactions 250 lb or less at joint(s) except 2=521(LC 23), 23=1317(LC 25), 19=2068(LC 26),

14=789(LC 26)

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

 $2 - 3 = -482/436, \ 3 - 5 = -172/365, \ 5 - 6 = -98/343, \ 8 - 9 = -43/621, \ 9 - 10 = -43/621, \ 10 - 11 = -421/238, \ 10 - 11 =$ TOP CHORD

11-13=-449/166, 13-14=-1135/297

BOT CHORD 2-24=-315/429, 23-24=-315/429, 21-23=-126/263, 19-21=-274/241, 16-17=-183/997,

14-16=-183/997

3-24=-379/300, 3-23=-731/699, 5-23=-275/166, 6-23=-508/168, 6-21=-56/273,

7-21=-313/153, 8-21=-67/550, 8-19=-715/160, 9-19=-318/154, 10-19=-1055/279,

10-17=-240/881, 11-17=-273/165, 13-17=-711/249, 13-16=0/291

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 3-4-13, Interior(1) 3-4-13 to 17-0-0, Exterior(2R) 17-0-0 to 24-7-10, Interior(1) 24-7-10 to 37-0-0, Exterior(2R) 37-0-0 to 44-7-10, Interior(1) 44-7-10 to 56-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 204 lb uplift at joint 2, 369 lb uplift at joint 23, 422 lb uplift at joint 19 and 221 lb uplift at joint 14.



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September 15,2021

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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



Qty Ply IC CONST. - SPENCE RES. Job Truss Truss Type T25355929 2932802 T07 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:03 2021 Page 1 ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-HdoeDSX8ZmM67Z6klwAhJmLmwXAO6t2OAXRi7bydPuc

35-0-0

8-0-0

39-9-4

4-9-4

46-6-0

6-8-12

27-0-0

8-0-0

19-0-0

4-9-4

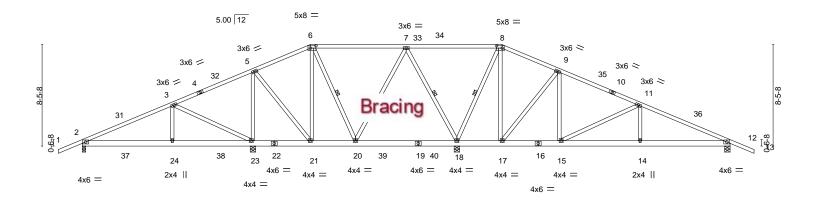
6-8-12

2-0-0 Scale: 1/8"=1

56-0-0

54-0-0

7-6-0



	L	7-6-0	14-2-12	19-0-0	22-9-4	31-2-12	35-0-0	39-9-4	46-6-	0   54	1-0-0
	1	7-6-0	6-8-12	4-9-4	3-9-4	8-5-8	3-9-4	4-9-4	6-8-1	2 ' 7	-6-0
Plate Offsets	(X,Y)	[6:0-5-12,0-2-8], [8:0	0-5-12,0-2-8]								
LOADING (p	osf)	SPACING-	2-0-0	C	SI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
	0.0	Plate Grip DO	DL 1.25	TO	0.86	Vert(LL)	-0.05 18-20	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BO	0.32	Vert(CT)	-0.09 14-30	>999	180		
BCLL	0.0 *	Rep Stress Ir	ncr YES	W	B 0.87	Horz(CT)	0.01 12	n/a	n/a		
BCDL 1	0.0	Code FBC20	20/TPI2014	M	atrix-MS					Weight: 361 I	b FT = 20%

LUMBER-

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

-2-0-0 2-0-0

7-6-0

**BRACING-**

TOP CHORD **BOT CHORD** WFBS

Structural wood sheathing directly applied or 5-3-0 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 6-20, 7-18, 8-18

REACTIONS. All bearings 0-5-8 except (jt=length) 2=0-3-8.

Max Horz 2=-130(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-212(LC 8), 23=-341(LC 8), 18=-422(LC 13), 12=-219(LC

13)

Max Grav All reactions 250 lb or less at joint(s) except 2=550(LC 23), 23=1226(LC 25), 18=2046(LC 2), 12=771(LC

26)

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

TOP CHORD 2-3=-553/449, 3-5=-133/333, 7-8=-40/628, 8-9=0/276, 9-11=-400/166, 11-12=-1097/292 **BOT CHORD**  $2-24 = -327/486, \ 23-24 = -327/486, \ 21-23 = -248/273, \ 15-17 = 0/307, \ 14-15 = -178/961, \ 21-24 = -327/486, \ 23-24 = -327/486, \ 21-23 = -248/273, \ 15-17 = 0/307, \ 14-15 = -178/961, \ 12-17 = 0/307, \ 14-15 = -178/961, \ 12-17 = 0/307, \ 14-15 = -178/961, \ 12-17 = 0/307, \ 14-15 = -178/961, \ 12-17 = 0/307, \ 14-15 = -178/961, \ 12-17 = 0/307, \ 14-15 = -178/961, \ 12-17 = 0/307, \ 14-15 = -178/961, \ 12-17 = 0/307, \ 14-15 = -178/961, \ 12-17 = 0/307, \ 14-15 = -178/961, \ 12-17 = 0/307, \ 14-15 = -178/961, \ 12-17 = 0/307, \ 14-15 = -178/961, \ 12-17 = 0/307, \ 14-15 = -178/961, \ 12-17 = 0/307, \ 14-15 = -178/961, \ 12-17 = 0/307$ 

12-14=-178/961

**WEBS** 3-24=-364/314, 3-23=-749/667, 5-23=-720/250, 5-21=-87/404, 6-21=-259/119, 7-20=-2/383, 7-18=-845/244, 8-18=-1053/317, 8-17=-166/628, 9-17=-765/243,

9-15=-69/545, 11-15=-729/243, 11-14=0/305

### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 3-4-13, Interior(1) 3-4-13 to 19-0-0, Exterior(2R) 19-0-0 to 26-7-10, Interior(1) 26-7-10 to 35-0-0, Exterior(2R) 35-0-0 to 42-7-10, Interior(1) 42-7-10 to 56-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 2, 341 lb uplift at joint 23, 422 lb uplift at joint 18 and 219 lb uplift at joint 12.



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September 15,2021



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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



Qty Ply IC CONST. - SPENCE RES. Job Truss Type Truss T25355930 2932802 T08 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:05 2021 Page 1 Lake City, FL - 32055,

ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-D?wPe7ZO5NcqNtG6tLC9OBRAwKoJanshdrwpBTydPua

Structural wood sheathing directly applied or 3-0-2 oc purlins.

5-22, 6-20, 7-18, 8-18, 9-17

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

1 Row at midpt

-2-0-0 2-0-0 21-0-0 27-0-0 33-0-0 39-9-4 46-6-0 54-0-0 56-0-0 7-6-0 6-8-12 6-9-4 6-0-0 6-0-0 6-9-4 6-8-12 7-6-0 2-0-0

Scale: 1/8"=1

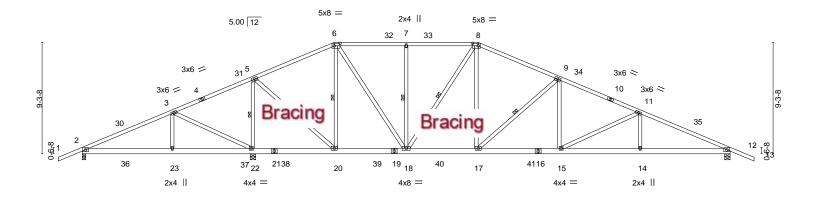


Plate Offsets (X,Y)	7-6-0 14-2-1: 7-6-0 6-8-12 [6:0-5-12,0-2-8], [8:0-5-12	2 6-9-4	27-0-0 6-0-0	33-0-0 6-0-0	39-9-4 6-9-4	46-6-0 6-8-12	54-0-0 7-6-0
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/TF	2-0-0 C 1.25 T 1.25 E YES V	CSI. C 0.63 C 0.54 VB 0.79 latrix-MS	- ( )	(loc) I/defl L/c 15-17 >999 240 15-17 >999 180 12 n/a n/a	) MT20	244/190

**BRACING-**

WFBS

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

(size) 2=0-3-8, 22=0-5-8, 12=0-5-8

Max Horz 2=-143(LC 13)

Max Uplift 2=-172(LC 8), 22=-564(LC 8), 12=-379(LC 13) Max Grav 2=389(LC 23), 22=2779(LC 2), 12=1575(LC 2)

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

2-3=-157/436, 3-5=-244/989, 5-6=-685/206, 6-7=-1220/354, 7-8=-1220/354, TOP CHORD

8-9=-1720/448, 9-11=-2441/574, 11-12=-3038/677

2-23=-382/240, 22-23=-382/240, 20-22=-861/374, 18-20=-11/595, 17-18=-124/1542, **BOT CHORD** 

15-17=-341/2203, 14-15=-532/2748, 12-14=-532/2748

WEBS 3-23=-370/318, 3-22=-749/661, 5-22=-2174/507, 5-20=-345/1909, 6-20=-998/289,

6-18=-272/1202, 7-18=-365/174, 8-18=-582/171, 8-17=-155/865, 9-17=-899/292,

9-15=-53/553, 11-15=-607/213, 11-14=0/259

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -20-0 to 3-4-13, Interior(1) 3-4-13 to 21-0-0, Exterior(2R) 21-0-0 to 28-7-10, Interior(1) 28-7-10 to 33-0-0, Exterior(2R) 33-0-0 to 40-7-10, Interior(1) 40-7-10 to 56-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 4x6 MT20 unless otherwise indicated.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 172 lb uplift at joint 2, 564 lb uplift at joint 22 and 379 lb uplift at joint 12.



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Ply IC CONST. - SPENCE RES. Job Qty Truss Truss Type T25355931 2932802 T09 Hip Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:07 2021 Page 1

Structural wood sheathing directly applied or 3-1-2 oc purlins.

6-23, 8-21, 10-19

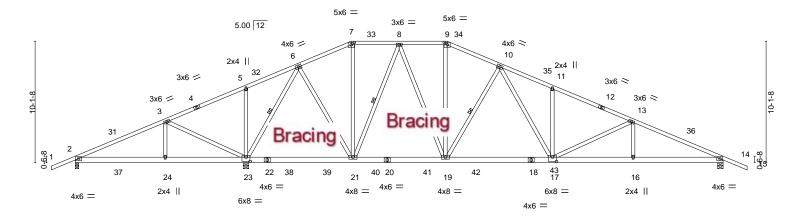
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 2-24,23-24.

1 Row at midpt

ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-9O293pafd?tYcBQV\_mEdTcWWP8Tx2fq\_49PwGMydPuY -2-0-0 2-0-0 27-0-0 31-0-0 . 35-4-10 39-9-4 46-6-0 54-0-0 56-0-0 7-6-0 6-8-12 4-4-10 4-4-10 4-0-0 4-0-0 4-4-10 4-4-10 6-8-12 7-6-0 2-0-0

Scale: 1/8"=1



		7-6-0 7-6-0	14-2-12 6-8-12	23-0-0 8-9-4	31-0-0 8-0-0	39-9-4 8-9-4	46-6- 6-8-1	-	0-0 6-0
Plate Offsets (X,Y) [7:0-3-0,0-2-4], [9:0-3-0,0-2-4], [17:0-4-0						0-9-4	0-0-1	12 1-6	5-0
LOADING (ps	,	SPACI			DEFL.	in (loc) I/def		PLATES	GRIP
	).0 7.0	Plate C Lumbe	Grip DOL 1.25 r DOL 1.25		( /	-0.20 17-19 >999 -0.34 17-19 >999		MT20	244/190
	0.0 * 0.0		ress Incr YES FBC2020/TPI2014	WB 0.9 Matrix-MS	- ( - ,	0.06 14 n/a	a n/a	Weight: 375 lb	FT = 20%

**BRACING-**

WEBS

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

WFBS 2x4 SP No.3

(size) 2=0-3-8, 23=0-5-8, 14=0-5-8

Max Horz 2=-155(LC 13)

Max Uplift 2=-165(LC 8), 23=-546(LC 8), 14=-372(LC 13) Max Grav 2=376(LC 23), 23=2836(LC 2), 14=1570(LC 2)

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

2-3=-128/483, 3-5=-287/1062, 5-6=-215/1039, 6-7=-847/247, 7-8=-748/239, TOP CHORD

8-9=-1340/395, 9-10=-1486/402, 10-11=-2417/633, 11-13=-2435/550, 13-14=-3024/665

2-24=-424/275, 23-24=-424/275, 21-23=0/251, 19-21=-35/1081, 17-19=-186/1724, **BOT CHORD** 

16-17=-521/2737, 14-16=-521/2737

3-24=-374/305, 3-23=-746/677, 5-23=-310/181, 6-23=-2212/455, 6-21=-194/1217,

8-21=-925/254, 8-19=-170/717, 9-19=-50/387, 10-19=-784/295, 10-17=-266/969,

11-17=-306/180, 13-17=-606/230

### NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 3-4-13, Interior(1) 3-4-13 to 23-0-0, Exterior(2R) 23-0-0 to 30-7-10, Interior(1) 30-7-10 to 31-0-0, Exterior(2R) 31-0-0 to 38-7-10, Interior(1) 38-7-10 to 56-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 2, 546 lb uplift at joint 23 and 372 lb uplift at joint 14.



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

September 15,2021

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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



Ply IC CONST. - SPENCE RES. Job Truss Truss Type Qtv T25355932 2932802 T10 2 Hip Job Reference (optional)

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

7-6-0

-2-0-0 2-0-0

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:08 2021 Page 1

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

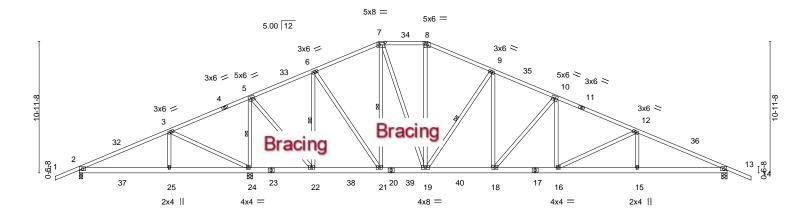
5-24, 6-22, 7-21, 9-19

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

1 Row at midpt

ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-eabXG9bHOI?PEL?hYTms0q3hbYqzn6u7Jp8TooydPuX 29-0-0 34-6-0 . 39-9-4 46-6-0 54-0-0 19-6-0 56-0-0 6-8-12 5-3-4 5-6-0 4-0-0 5-6-0 5-3-4 6-8-12 7-6-0 2-0-0

Scale: 1/8"=1



	L	7-6-0	14-2-12	19-6-0	25-0-0	29-0-0	34-6-0	39-9-4	46-6-0	54-0-0	)
		7-6-0	6-8-12	5-3-4	5-6-0	4-0-0	5-6-0	5-3-4	6-8-12	7-6-0	<u> </u>
Plate Offset	ts (X,Y)	[7:0-5-12,0-2-	-8], [8:0-3-0,0-2-4]								
LOADING	4 - 7	SPAC			CSI.	DEFL.	in (loc)	l/defl L	-	PLATES	GRIP
TCDL	20.0 7.0	Lumbe	Grip DOL 1.2ser DOL 1.2ser	5   E	FC 0.61 BC 0.55	Vert(LL) Vert(CT)	-0.18 15-16 -0.30 15-16	>999 24 >999 18	-	MT20	244/190
BCLL BCDL	0.0 * 10.0		ress Incr YES FBC2020/TPI2014		NB 0.90 Matrix-MS	Horz(CT)	0.06 13	n/a n/		Weight: 388 lb	FT = 20%

**BRACING-**

WFBS

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

(size) 2=0-3-8, 24=0-5-8, 13=0-5-8

Max Horz 2=-167(LC 13)

Max Uplift 2=-182(LC 8), 24=-493(LC 8), 13=-376(LC 13) Max Grav 2=423(LC 23), 24=2706(LC 2), 13=1569(LC 2)

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

2-3=-244/356, 3-5=-227/929, 5-6=-474/182, 6-7=-1021/315, 7-8=-1142/374, TOP CHORD

8-9=-1285/375, 9-10=-1871/479, 10-12=-2410/564, 12-13=-3029/672

**BOT CHORD** 2-25=-307/244, 24-25=-307/244, 22-24=-808/360, 21-22=-14/467, 19-21=-25/888, 18-19=-167/1685, 16-18=-328/2171, 15-16=-528/2740, 13-15=-528/2740

3-25=-363/324, 3-24=-769/664, 5-24=-2149/463, 5-22=-319/1837, 6-22=-1187/309,

6-21=-168/888, 7-21=-544/152, 7-19=-213/781, 8-19=-41/278, 9-19=-971/314, 9-18=-153/784, 10-18=-743/246, 10-16=-64/501, 12-16=-637/223, 12-15=0/266

### NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 3-4-13, Interior(1) 3-4-13 to 25-0-0, Exterior(2E) 25-0-0 to 29-0-0, Exterior(2R) 29-0-0 to 36-7-10, Interior(1) 36-7-10 to 56-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 4x6 MT20 unless otherwise indicated.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 2, 493 lb uplift at joint 24 and 376 lb uplift at joint 13.



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September 15,2021

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



Qty Ply IC CONST. - SPENCE RES. Job Truss Truss Type T25355933 2932802 T11 5 Piggyback Base Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:10 2021 Page 1

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

5-24, 6-22, 7-20, 9-19

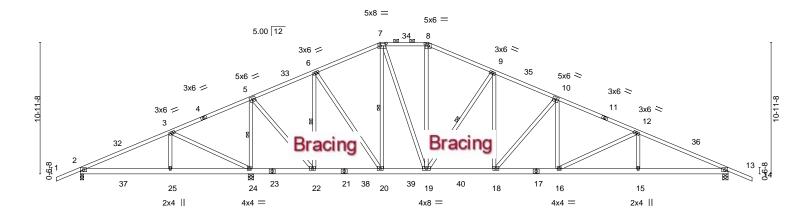
2-0-0 oc purlins (5-5-7 max.): 7-8.

1 Row at midpt

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

ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-azjlhrdXwwF7Te84fuoK5F804LVRF0OQn6dathydPuV -2-0-0 2-0-0 34-6-0 39-9-4 46-6-0 54-0-0 19-6-0 25-0-0 56-0-0 7-6-0 6-8-12 5-3-4 5-6-0 4-0-0 5-6-0 5-3-4 6-8-12 7-6-0 2-0-0

Scale: 1/8"=1



	<b>—</b>	7-6-0 7-6-0	14-2-12 6-8-12	19-6-0 5-3-4	25-0-0 5-6-0	<del>29-0-0</del> <del>4-0-0</del>	34-6-0 5-6-0	39-9-4 5-3-4	46-6-0 6-8-12	54-0 7-6-	-
Plate Offset	ts (X,Y)	[7:0-5-12,0-2-8], [8		5-3-4	5-6-0	4-0-0	5-6-0	5-5-4	0-0-12	7-0-	0
LOADING	(psf)	SPACING-	2-0-0	cs	i.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
	20.0	Plate Grip I		TC	0.61	Vert(LL)	-0.18 15-16		240	MT20	244/190
TCDL	7.0	Lumber DC		BC	0.55	Vert(CT)	-0.30 15-16		180		
BCLL	0.0 *	Rep Stress		WE		Horz(CT)	0.06 13	n/a	n/a	M-:	FT 000/
BCDL	10.0	Code FBC	2020/TPI2014	IVIa	trix-MS					Weight: 388 lb	FT = 20%

**BRACING-**

**TOP CHORD** 

BOT CHORD

**WEBS** 

LUMBER-

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

WFBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 24=0-5-8, 13=0-5-8

Max Horz 2=-167(LC 13)

Max Uplift 2=-182(LC 8), 24=-493(LC 8), 13=-376(LC 13) Max Grav 2=423(LC 23), 24=2706(LC 2), 13=1569(LC 2)

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

2-3=-244/356, 3-5=-227/929, 5-6=-474/182, 6-7=-1021/315, 7-8=-1142/374, TOP CHORD

8-9=-1285/375, 9-10=-1871/479, 10-12=-2410/564, 12-13=-3028/672 2-25=-307/244, 24-25=-307/244, 22-24=-808/360, 20-22=-14/467, 19-20=-25/888,

18-19=-167/1685, 16-18=-328/2171, 15-16=-528/2740, 13-15=-528/2740

3-25=-363/324, 3-24=-769/664, 5-24=-2149/463, 5-22=-319/1837, 6-22=-1187/309, WEBS 6-20=-168/888, 7-20=-544/152, 7-19=-213/781, 8-19=-41/278, 9-19=-971/314,

9-18=-153/784, 10-18=-743/246, 10-16=-64/501, 12-16=-637/223, 12-15=0/266

### NOTES-

**BOT CHORD** 

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 3-4-13, Interior(1) 3-4-13 to 25-0-0, Exterior(2E) 25-0-0 to 29-0-0, Exterior(2R) 29-0-0 to 36-7-10, Interior(1) 36-7-10 to 56-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 4x6 MT20 unless otherwise indicated.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 2, 493 lb uplift at ioint 24 and 376 lb uplift at joint 13.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

September 15,2021

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IC CONST. - SPENCE RES. Job Truss Truss Type Qtv Plv T25355934 2932802 T12 Roof Special Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:14 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055 ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-SkzoXCg2z8lYyGSruksGF5Ji0zn3Bvd0hkbn0SydPuR 21-11-7 <u>27-4-13</u> 33-0-0 36-2-11 40-0-0

5-5-7

5-7-3

3-2-11

Structural wood sheathing directly applied or 4-2-13 oc purlins,

Rigid ceiling directly applied or 7-6-14 oc bracing.

except end verticals.

3-9-5

5-5-7

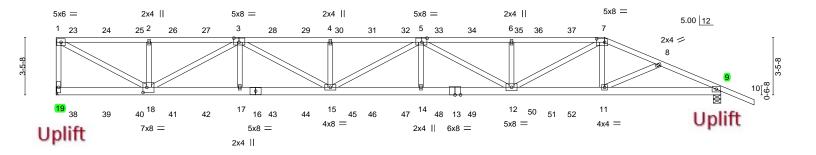
16-6-0

5-5-7

5-5-7

Scale = 1:69.3

2-0-0



<u> </u>	5-7-3 5-7-3	11-0-9 5-5-7		6-6-0 i-5-7	21-11-7 5-5-7	-	27-4-13 5-5-7		33-0-0 5-7-3	<del>40-0-0</del> <del>7-0-0</del>	<del></del>
Plate Offse		[3:0-3-12,0-3-0], [5:0-3-12					3-3-1		3-7-3	7-0-0	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	0.50 14-15	>963	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.77 14-15	>618	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.14 9	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-MS					Weight: 486 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP M 31 \*Except\*

7-10: 2x4 SP No.2

BOT CHORD 2x6 SP No.2

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

1-18,3-18,3-15,5-15,5-12,7-12: 2x4 SP No.2

REACTIONS. (size) 19=Mechanical, 9=0-5-8

Max Horz 19=-125(LC 24)

Max Uplift 19=-1422(LC 5), 9=-1280(LC 5) Max Grav 19=3176(LC 1), 9=3025(LC 1)

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

TOP CHORD  $1-19 = -3020/1363, \ 1-2 = -4905/2197, \ 2-3 = -4905/2197, \ 3-4 = -9939/4460, \ 4-5$ 

 $5\text{-}6\text{=-}8957/4036,\ 6\text{-}7\text{=-}8957/4036,\ 7\text{-}8\text{=-}6498/2900,\ 8\text{-}9\text{=-}6499/2833}$ 

BOT CHORD 17-18=-3579/8161, 15-17=-3580/8166, 14-15=-4501/10200, 12-14=-4499/10196,

11-12=-2624/6005, 9-11=-2544/5904

WEBS 1-18=-2488/5556, 2-18=-625/309, 3-18=-3750/1685, 3-17=-100/451, 3-15=-915/2034,

4-15=-597/295, 5-15=-299/152, 5-14=-91/449, 5-12=-1427/628, 6-12=-620/307,

7-12=-1521/3371, 7-11=-137/489

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 0-7-0 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=20ft; 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.
- 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) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1422 lb uplift at joint 19 and 1280 lb uplift at joint 9.



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

September 15,2021

### Continued on page 2



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Job	Truss	Truss Type	Qty	Ply	IC CONST SPENCE RES.
	T40				T25355934
2932802	112	Roof Special Girder	1	2	Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:15 2021 Page 2 ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-xwXBkYggkStPZQ11SROVoIrtlM7IwMt9wOLLYuydPuQ

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 115 lb down and 84 lb up at 0-11-4, 109 lb down and 85 lb up at 2-11-4, 109 lb down and 85 lb up at 4-11-4, 109 lb down and 85 lb up at 4-11-4, 109 lb down and 85 lb up at 8-11-4, 109 lb down and 85 lb and 85 lb up at 12-11-4, 109 lb down and 85 lb up at 14-11-4, 109 lb down and 85 lb up at 16-11-4, 109 lb down and 85 lb up at 18-11-4, 109 lb down and 85 lb up at 20-11-4, 109 lb down and 85 lb up at 22-11-4, 109 lb down and 85 lb up at 24-11-4, 109 lb down and 85 lb up at 26-11-4, 109 lb down and 85 lb up at 28-11-4, and 109 lb down and 85 lb up at 30-11-4, and 183 lb down and 169 lb up at 33-0-0 on top chord, and 90 lb down and 58 lb up at 0-11-4, 86 lb down and 60 lb up at 2-11-4, 86 lb down and 60 lb up at 4-11-4, 86 lb down and 60 lb up at 6-11-4, 86 lb down and 60 lb up at 10-11-4, 86 lb down and 60 lb down and 60 lb up at 10-11-4, 86 lb down and 60 lb do 12-11-4, 86 lb down and 60 lb up at 14-11-4, 86 lb down and 60 lb up at 16-11-4, 86 lb down and 60 lb up at 18-11-4, 86 lb down and 60 lb up at 20-11-4, 86 lb down and 60 lb up at 22-11-4, 86 lb down and 60 lb up at 24-11-4, 86 lb down and 60 lb up at 26-11-4, 86 lb down and 60 lb up at 28-11-4, and 86 lb down and 60 lb up at 30-11-4, and 295 lb down and 230 lb up at 32-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

Vert: 1-7=-54, 7-10=-54, 19-20=-20

Concentrated Loads (lb)

Vert: 7=-183(B) 3=-109(B) 17=-58(B) 11=-279(B) 23=-115(B) 24=-109(B) 25=-109(B) 26=-109(B) 27=-109(B) 28=-109(B) 29=-109(B) 30=-109(B) 31=-109(B) 32=-109(B) 33=-109(B) 34=-109(B) 35=-109(B) 36=-109(B) 37=-109(B) 38=-60(B) 39=-58(B) 40=-58(B) 41=-58(B) 42=-58(B) 43=-58(B) 44=-58(B) 45=-58(B) 46=-58(B) 47=-58(B) 48=-58(B) 49=-58(B) 50=-58(B) 51=-58(B) 52=-58(B)

Qty Ply IC CONST. - SPENCE RES. Job Truss Truss Type T25355935 2932802 T13 Roof Special Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:16 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055 ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-P74ZyuhIVm?GBZcE09vkKWO3?mWBflpJ924u4KydPuP 42-0-0 24-10-6 31-0-0 35-2-11 40-0-0 18-6-12

6-3-10

6-1-10

4-2-11

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

2-17, 6-11

Rigid ceiling directly applied or 7-10-7 oc bracing.

except end verticals.

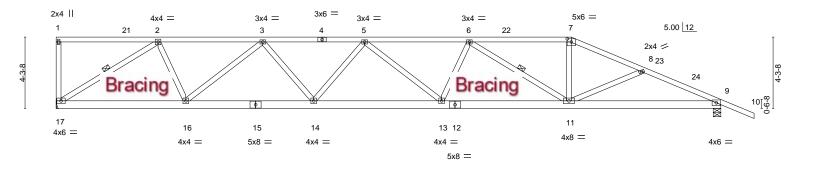
1 Row at midpt

6-1-9

Scale = 1:69.3

2-0-0

4-9-5



_		9-10	15-5-15		23-	-	31-0	-		40-0-0	
	7-	9-10	7-8-6		7-8	3-6	7-9-	11	1	9-0-0	
Plate Offs	ets (X,Y)	[7:0-3-0,0-2-4]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.29 13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.55 13-14	>874	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT	0.12 9	n/a	n/a		
BCDL	10.0	Code FBC2020/	TPI2014	Matr	ix-MS					Weight: 238 lb	FT = 20%

**BRACING-**

**TOP CHORD** 

BOT CHORD

**WEBS** 

LUMBER-

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

6-1-10

6-3-9

**WEBS** 2x4 SP No.3

REACTIONS. (size) 17=Mechanical, 9=0-5-8

Max Horz 17=-154(LC 13) Max Uplift 17=-392(LC 9), 9=-374(LC 9) Max Grav 17=1472(LC 1), 9=1585(LC 1)

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

2-3=-2332/602, 3-5=-3529/913, 5-6=-3648/939, 6-7=-2650/653, 7-8=-2872/682, TOP CHORD

8-9=-3121/721

BOT CHORD 16-17=-427/1949, 14-16=-759/3209, 13-14=-891/3733, 11-13=-825/3549, 9-11=-602/2828

 $2-17 = -2298/624, \ 2-16 = -183/980, \ 3-16 = -1148/344, \ 3-14 = -80/521, \ 5-14 = -331/138,$ 

6-13=-12/322, 6-11=-1075/337, 7-11=-150/816

### NOTES-

**WEBS** 

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-1-12, Interior(1) 4-1-12 to 31-0-0, Exterior(2R) 31-0-0 to 35-0-0, Interior(1) 35-0-0 to 42-0-0 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.
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 392 lb uplift at joint 17 and 374 lb uplift at joint 9.



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

September 15,2021

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



Qty Ply IC CONST. - SPENCE RES. Job Truss Truss Type T25355936 2932802 T14 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:17 2021 Page 1 Lake City, FL - 32055, ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-tJex9EiwG377pjBQasQztjxBvAsHOCqSOiqRcnydPuO <u>21-9-</u>14 14-6-0 29-0-0 34-7-2 40-0-0 42-0-0

7-2-2

5-7-2

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

2-16, 5-11

Rigid ceiling directly applied or 8-11-7 oc bracing.

except end verticals.

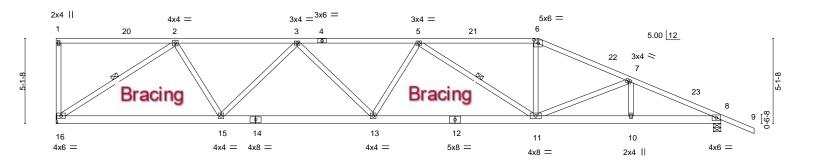
1 Row at midpt

7-3-14

Scale = 1:69.3

2-0-0

5-4-14



	9-11-1 9-11-1	1	19-0-15 9-1-15	29-0-0 9-11-1	34-7-2 5-7-2	40-0-0 5-4-14	
Plate Offsets (X,Y)	[6:0-3-0,0-2-4]						
LOADING         (psf)           TCLL         20.0           TCDL         7.0           BCLL         0.0 *           BCDL         10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/T	2-0-0 1.25 1.25 YES PI2014	CSI. TC 0.76 BC 0.66 WB 0.85 Matrix-MS	DEFL.         in (loc)         l/det           Vert(LL)         -0.22         13         >99!           Vert(CT)         -0.44         11-13         >99!           Horz(CT)         0.10         8         n/s	9 240 9 180	PLATES GRIP MT20 244/190  Weight: 241 lb FT = 20%	

**BRACING-**

TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-

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

**WEBS** 2x4 SP No.3

REACTIONS. (size) 16=Mechanical, 8=0-5-8 Max Horz 16=-183(LC 13)

7-2-0

Max Uplift 16=-390(LC 9), 8=-358(LC 9) Max Grav 16=1472(LC 1), 8=1585(LC 1)

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

TOP CHORD 2-3=-2294/578, 3-5=-3075/777, 5-6=-2522/618, 6-7=-2767/644, 7-8=-3082/645

**BOT CHORD** 15-16=-378/1830, 13-15=-639/2870, 11-13=-686/3093, 10-11=-531/2795, 8-10=-531/2795

7-4-0

2-16=-2177/597, 2-15=-152/925, 3-15=-830/272, 3-13=-38/336, 5-11=-690/245, WEBS

6-11=-116/721, 7-11=-320/184

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-1-12, Interior(1) 4-1-12 to 29-0-0, Exterior(2R) 29-0-0 to 33-0-0, Interior(1) 33-0-0 to 42-0-0 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 390 lb uplift at joint 16 and 358 lb uplift at joint 8.



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September 15,2021

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



Qty Ply IC CONST. - SPENCE RES. Job Truss Truss Type T25355937 2932802 T15 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:18 2021 Page 1 Lake City, FL - 32055 ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-LVCJNajY1NF\_Qtmc7axCQxTMoaCR7fuccMZ?9DydPuN

20-8-10

7-2-10

27-0-0

6-3-6

33-5-14

6-5-14

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

2-16, 5-11

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

except end verticals.

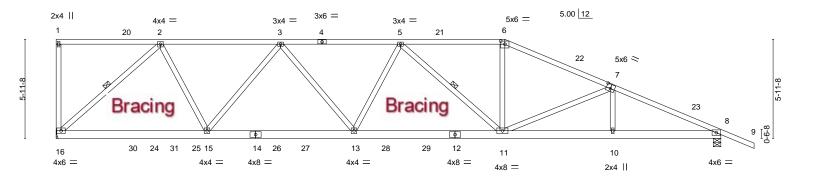
1 Row at midpt

2-0-0 Scale = 1:69.3

42-0-0

40-0-0

6-6-2



	9-0-15	17-	11-1	27-0-0	1	;	33-5-14	40-0-0	
	9-0-15	8-1	l0-2	9-0-15			6-5-14	6-6-2	<u> </u>
Plate Offsets (X,Y)	[6:0-3-0,0-2-4], [7:0-3-	0,0-3-0]							
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Inci Code FBC2020	1.25 YES	CSI. TC 0.75 BC 0.67 WB 0.87 Matrix-MS	Vert(LL) -0.2	n (loc) 4 11-13 2 11-13 0 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 249 lb	<b>GRIP</b> 244/190  FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-

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

6-3-4

WFBS 2x4 SP No.3

REACTIONS. 16=Mechanical, 8=0-5-8 (size)

Max Horz 16=-211(LC 13) Max Uplift 16=-387(LC 9), 8=-342(LC 9) Max Grav 16=1647(LC 2), 8=1702(LC 2)

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

TOP CHORD 2-3=-2085/457, 3-5=-2921/647, 5-6=-2612/570, 6-7=-2865/591, 7-8=-3372/614

13-6-0

7-2-12

15-16=-236/1544, 13-15=-478/2630, 11-13=-533/2931, 10-11=-493/3061, 8-10=-491/3064 BOT CHORD

2-16=-2065/508, 2-15=-172/1205, 3-15=-878/274, 3-13=-55/469, 5-11=-436/164, WEBS

6-11=-104/827, 7-11=-515/227

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-1-12, Interior(1) 4-1-12 to 27-0-0, Exterior(2R) 27-0-0 to 31-0-0, Interior(1) 31-0-0 to 42-0-0 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 387 lb uplift at joint 16 and 342 lb uplift at joint 8.



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

September 15,2021

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IC CONST. - SPENCE RES. Job Truss Type Truss Qtv Plv T25355938 2932802 T16 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:19 2021 Page 1 ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-pimhawkBohNr21KphHSRy80UT\_YUs85lr0JYhfydPuM 42-0-0 13-0-0 25-0-0 32-4-9 40-0-0 6-11-12 19-0-4

5-11-12

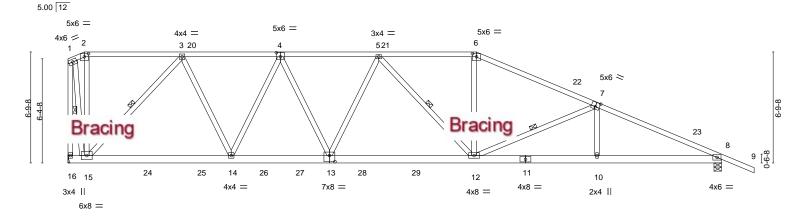
7-4-9

6-0-4

Scale = 1:70.5

2-0-0

7-7-7



	1-0-0	9-11-14		0-2		25-0-0		32-	-	40-0-0	
1	1-0-0	8-11-14	6-0	)-4	l .	8-11-14		7-4	1-9	7-7-7	'
Plate Offse	ets (X,Y)	[2:0-3-0,0-2-4], [4:0-3-0,0-3	3-0], [6:0-3-0,0	)-2-4], [7:0-3	-0,0-3-4], [13	:0-4-0,0-4-8]					
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (lo	c) I/def	l L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.95	Vert(LL)	-0.24 12-	3 >999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.68	Vert(CT)	-0.41 12-	3 >999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.09	8 n/a	a n/a		
BCDL	10.0	Code FBC2020/TP	2014	Matrix	c-MS					Weight: 275 lb	FT = 20%

**BRACING-**

WFBS

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

> (size) 16=Mechanical, 8=0-5-8

5-11-12

6-0-4

Max Horz 16=-233(LC 13) Max Uplift 16=-373(LC 9), 8=-395(LC 13) Max Grav 16=1661(LC 2), 8=1707(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-301/51, 2-3=-274/59, 3-4=-1951/433, 4-5=-2483/547, 5-6=-2448/579, TOP CHORD

6-7=-2702/586, 7-8=-3360/721, 1-16=-1708/298

BOT CHORD 14-15=-194/1469, 13-14=-357/2278, 12-13=-417/2556, 10-12=-574/3044, 8-10=-573/3047 **WEBS**  $3-15=-1776/445,\ 3-14=-203/1134,\ 4-14=-770/246,\ 4-13=-125/486,\ 5-12=-321/106,$ 

6-12=-79/744, 7-12=-672/259, 7-10=0/258, 1-15=-301/1608

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 1-0-0, Exterior(2R) 1-0-0 to 6-7-14, Interior(1) 6-7-14 to 25-0-0, Exterior(2R) 25-0-0 to 30-7-14, Interior(1) 30-7-14 to 42-0-0 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 373 lb uplift at joint 16 and 395 lb uplift at joint 8.



Structural wood sheathing directly applied, except end verticals.

3-15, 5-12, 7-12, 1-16

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

1 Row at midpt

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September 15,2021

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Qty IC CONST. - SPENCE RES. Job Truss Truss Type Plv T25355939 2932802 T17 Hip Job Reference (optional)

2-9-4

6-8-0

Builders FirstSource (Lake City,FL),

3-0-0

Lake City, FL - 32055,

6-8-0

6-8-0

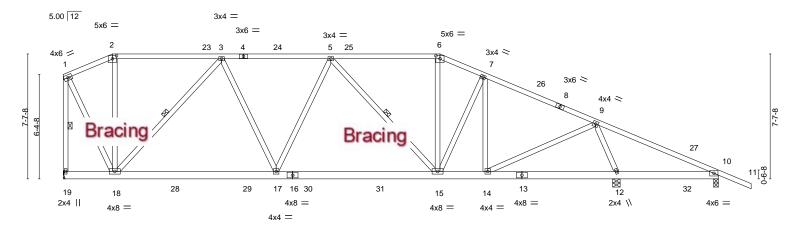
8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:21 2021 Page 1 ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-l4uS?clRKIdZHLUBpiUv1Z5wqnFJK5W2IKoflYydPuK 42-0-0 32-6-0 40-0-0 25-9-4

7-6-0

6-8-12

Scale = 1:70.3

2-0-0



3-0-0	13-0-0	23-0-0	25-9-4 33-9-4	40-0-0
3-0-0	10-0-0	10-0-0	2-9-4 8-0-0	6-2-12
Plate Offsets (X,Y)	[2:0-3-0,0-2-4], [6:0-3-0,0-2-4]			
LOADING (psf)	SPACING- 2-0-0	CSI. DEFL.	in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.57 Vert(L	L) -0.12 15-17 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.59 Vert(C	ST) -0.21 15-17 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.55 Horz(0	CT) 0.04 12 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 281 lb FT = 20%

LUMBER-

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

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

TOP CHORD

Structural wood sheathing directly applied or 4-5-11 oc purlins,

3-18, 5-15, 1-19

except end verticals.

BOT CHORD

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

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

WEBS 1 Row at midpt

REACTIONS.

19=Mechanical, 12=0-5-8, 10=0-3-8

Max Horz 19=-245(LC 13)

Max Uplift 19=-297(LC 8), 12=-369(LC 13), 10=-117(LC 9) Max Grav 19=1371(LC 2), 12=1888(LC 2), 10=158(LC 24)

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

1-2=-620/139, 2-3=-557/142, 3-5=-1540/363, 5-6=-1344/362, 6-7=-1478/380, TOP CHORD

7-9=-1429/342, 9-10=-64/511, 1-19=-1392/291

**BOT CHORD** 17-18=-163/1301, 15-17=-226/1568, 14-15=-141/1260, 12-14=-72/252, 10-12=-413/128 WEBS

3-18=-1120/303, 3-17=-107/574, 5-15=-402/114, 6-15=-54/385, 7-15=-17/280,

7-14=-399/103, 9-14=-131/1150, 9-12=-1660/415, 1-18=-256/1246

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-0-0, Exterior(2R) 3-0-0 to 8-7-14, Interior(1) 8-7-14 to 23-0-0, Exterior(2R) 23-0-0 to 28-7-14, Interior(1) 28-7-14 to 42-0-0 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.
- 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 297 lb uplift at joint 19, 369 lb uplift at joint 12 and 117 lb uplift at joint 10.



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

September 15,2021

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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





4-9-4

6-8-12

8-0-0

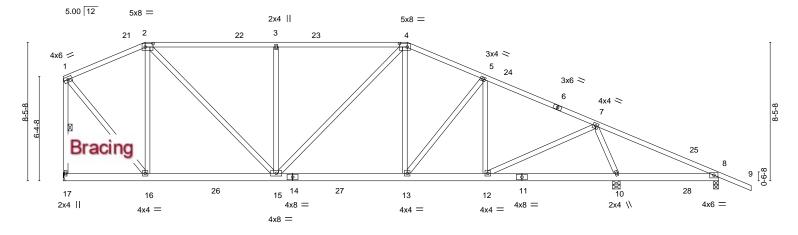
21-0-0

Scale = 1:70.3

2-0-0

7-6-0

40-0-0



	5-0-0	8-0-	-		3-0-0	4-9	9-4	+		3-0-0	6-2-12	
Plate Offs	ets (X,Y) [	2:0-5-12,0-2-8], [4:0-5-12	2,0-2-8]	1								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC (	).74	Vert(LL)	-0.09 1	3-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC (	0.38	Vert(CT)	-0.16 1	3-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB (	0.80	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-I	ИS						Weight: 281 lb	FT = 20%

LUMBER-

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

WFBS 2x4 SP No 3

5-0-0

5-0-0

**BRACING-**

TOP CHORD BOT CHORD

25-9-4

Structural wood sheathing directly applied or 4-0-10 oc purlins,

1-17

except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

33-9-4

6-0-0 oc bracing: 8-10. WEBS 1 Row at midpt

REACTIONS. (size) 17=Mechanical, 10=0-5-8, 8=0-3-8

Max Horz 17=-258(LC 13)

Max Uplift 17=-273(LC 8), 10=-365(LC 13), 8=-122(LC 9) Max Grav 17=1367(LC 2), 10=1868(LC 2), 8=172(LC 24)

13-0-0

8-0-0

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

1-2=-852/194, 2-3=-1386/357, 3-4=-1386/357, 4-5=-1463/367, 5-7=-1439/340, TOP CHORD

7-8=-61/482, 1-17=-1311/289

**BOT CHORD** 16-17=-80/256, 15-16=-16/781, 13-15=-124/1314, 12-13=-128/1271, 10-12=-73/271,

8-10=-386/126

**WEBS** 2-16=-647/222, 2-15=-237/936, 3-15=-502/241, 4-13=-37/263, 5-12=-331/102,

7-12=-111/1139, 7-10=-1642/410, 1-16=-236/1171

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-1-12, Interior(1) 4-1-12 to 5-0-0, Exterior(2R) 5-0-0 to 10-7-14, Interior(1) 10-7-14 to 21-0-0, Exterior(2R) 21-0-0 to 26-7-14, Interior(1) 26-7-14 to 42-0-0 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.
- 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 273 lb uplift at joint 17, 365 lb uplift at joint 10 and 122 lb uplift at joint 8.



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

September 15,2021





Qty Ply IC CONST. - SPENCE RES. Job Truss Truss Type T25355941 2932802 T19 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:24 2021 Page 1 Lake City, FL - 32055, ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-AfZaddnJdD088oDmUq2cfCjRY?LZXOfU?l0JMtydPuH

33-0-0

6-0-0

39-9-4

6-9-4

27-0-0

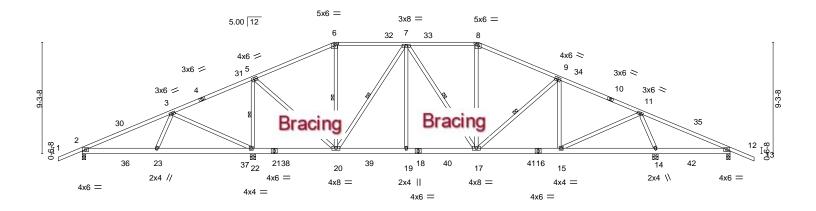
6-0-0

2-0-0 Scale: 1/8"=1

56-0-0

54-0-0

7-6-0



H	6-2-12 6-2-12	14-2-12 8-0-0	21-0-0	27-0-0 6-0-0	33-0-0	39-9-4 6-9-4	47-9-4 8-0-0	54-0-0 6-2-12
Plate Offsets (2	X,Y) [6:0-3-0	,0-2-4], [8:0-3-0,0-2-4]						
LOADING (ps TCLL 20.	,	SPACING- 2-0-0 Plate Grip DOL 1.25		0.54	<b>DEFL.</b> in Vert(LL) -0.07	(loc) I/defl 15-17 >999	L/d <b>PLA</b> 240 MT2	
TCDL 7. BCLL 0. BCDL 10.	.0 * F	umber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014		0.30 0.72 k-MS	Vert(CT) -0.11 Horz(CT) 0.02	15-17 >999 14 n/a	180 n/a Weig	ht: 361 lb FT = 20%

LUMBER-

-2-0-0 2-0-0

7-6-0

6-8-12

TOP CHORD 2x4 SP No.2 2x6 SP No 2 **BOT CHORD** WFBS 2x4 SP No.3 **BRACING-**

TOP CHORD **BOT CHORD** WFBS

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

46-6-0

6-8-12

Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 5-22, 6-20, 7-20, 7-17, 9-17

REACTIONS. All bearings 0-3-8 except (jt=length) 22=0-5-8, 14=0-5-8.

Max Horz 2=-143(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 2=-192(LC 8), 22=-505(LC 8), 14=-364(LC 13), 12=-131(LC

Max Grav All reactions 250 lb or less at joint(s) 12 except 2=486(LC 23), 22=2256(LC 2), 14=1761(LC 2)

21-0-0

6-9-4

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

2-3=-439/454, 3-5=-207/513, 5-6=-719/223, 6-7=-604/221, 7-8=-1126/369, TOP CHORD

8-9=-1280/363, 9-11=-1376/357, 11-12=-48/421

**BOT CHORD**  $2-23 = -328/381,\ 22-23 = -175/266,\ 20-22 = -420/339,\ 19-20 = -69/1048,\ 17-19 = -69/1048,$ 

15-17=-140/1217, 14-15=-72/288, 12-14=-331/115

**WEBS** 3-23=-396/335, 3-22=-663/568, 5-22=-1646/446, 5-20=-274/1365, 7-20=-825/218, 7-19=0/323, 8-17=-19/255, 9-15=-261/104, 11-15=-109/1062, 11-14=-1540/406

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 3-4-13, Interior(1) 3-4-13 to 21-0-0, Exterior(2R) 21-0-0 to 28-7-10, Interior(1) 28-7-10 to 33-0-0, Exterior(2R) 33-0-0 to 40-7-10, Interior(1) 40-7-10 to 56-0-0 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.
- \* 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 192 lb uplift at joint 2, 505 lb uplift at joint 22, 364 lb uplift at joint 14 and 131 lb uplift at joint 12.



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

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



Qty Ply IC CONST. - SPENCE RES. Job Truss Truss Type T25355942 2932802 T20 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:26 2021 Page 1

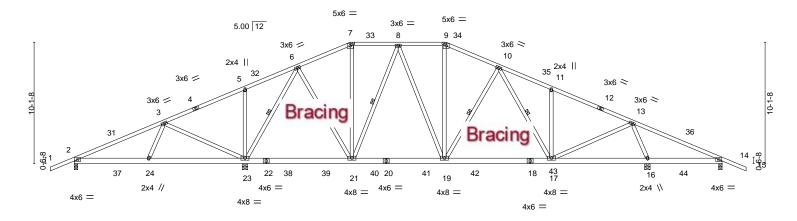
27-0-0

4-0-0

4-4-10

ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-62hL2Jpa8qGrO6N9bF44kdomto?2\_I8nScVQRlydPuF 54-0-0 31-0-0 35-4-10 39-9-4 46-6-0 4-0-0 4-4-10 4-4-10 6-8-12 7-6-0 2-0-0

Scale: 1/8"=1



	0-2-12	14-2-12	23-0-0		31-0-0		39-9-4	_	47-9-4	54-0-0
	6-2-12	8-0-0	8-9-4	1	8-0-0	ı	8-9-4	'	8-0-0	6-2-12
Plate Offsets	(X,Y) [7:0-	3-0,0-2-4], [9:0-3-0,0-2-4]								
	i i									
LOADING (p.	sf)	SPACING- 2-0	o CSI.		DEFL.	in (lo	oc) I/defl	L/d	PLATES	GRIP
TCLL 20	0.0	Plate Grip DOL 1.2	.5 TC	0.55	Vert(LL)	-0.10 17-	19 >999	240	MT20	244/190
TCDL 7	7.0	Lumber DOL 1.2	5 BC	0.43	Vert(CT)	-0.17 17-	19 >999	180		
BCLL 0	0.0 *	Rep Stress Incr YE	S WB	0.72	Horz(CT)	0.03	16 n/a	n/a		
BCDL 10	0.0	Code FBC2020/TPI2014	Matri	x-MS					Weight: 377	' lb FT = 20%
									-	

LUMBER-

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

-2-0-0 2-0-0

7-6-0

6-8-12

4-4-10

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

WEBS

Structural wood sheathing directly applied or 4-7-12 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 23-24,14-16. 1 Row at midpt 6-23, 8-21, 10-19, 10-17

REACTIONS. All bearings 0-3-8 except (jt=length) 23=0-5-8, 16=0-5-8.

Max Horz 2=-155(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 2=-188(LC 8), 23=-483(LC 8), 16=-373(LC 13), 14=-126(LC

Max Grav All reactions 250 lb or less at joint(s) 14 except 2=486(LC 23), 23=2265(LC 2), 16=1780(LC 2)

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

2-3=-440/443, 3-5=-230/504, 5-6=-157/489, 6-7=-843/253, 7-8=-744/245, TOP CHORD

8-9=-1059/341, 9-10=-1183/344, 10-11=-1365/415, 11-13=-1387/333, 13-14=-75/449

**BOT CHORD**  $2-24 = -319/390, \ 23-24 = -165/278, \ 21-23 = 0/406, \ 19-21 = -26/939, \ 17-19 = -75/1174,$ 

16-17=-57/267, 14-16=-356/139

**WEBS** 3-24=-401/323, 3-23=-664/583, 5-23=-310/181, 6-23=-1560/373, 6-21=-139/808,

8-21=-553/198, 8-19=-89/344, 9-19=-41/272, 10-19=-271/179, 11-17=-296/177,

13-17=-103/1078, 13-16=-1580/415

### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 3-4-13, Interior(1) 3-4-13 to 23-0-0, Exterior(2R) 23-0-0 to 30-7-10, Interior(1) 30-7-10 to 31-0-0, Exterior(2R) 31-0-0 to 38-7-10, Interior(1) 38-7-10 to 56-0-0 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 2, 483 lb uplift at joint 23, 373 lb uplift at joint 16 and 126 lb uplift at joint 14.



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September 15,2021

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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



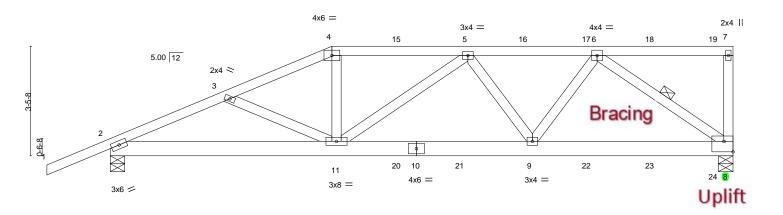
Qty Ply IC CONST. - SPENCE RES. Job Truss Truss Type T25355943 2932802 T21 Half Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:27 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055 ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-aEFjGfqCv8Oi0GyL9zbJHqLx5CJzjqiwhGFzzCydPuE 15-4-8 11-3-8 19-8-0

4-3-9

4-0-15

Scale = 1:36.4

4-3-8



		7-0-0	1	13-3-15	19-8-0	
	I	7-0-0	ı	6-4-0	6-4-1	ı
Plate Offsets	ts (X,Y)	[8:Edge,0-4-0]				
LOADING (	(psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) 1/d	defl L/d PLATES	GRIP
TCLL 2	20.0	Plate Grip DOL 1.25	TC 0.52	Vert(LL) 0.11 9-11 >9	999 240 MT20	244/190
TCDL	7.0	Lumber DOL 1.25	BC 0.58	Vert(CT) -0.17 9-11 >9	999 180	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.44	Horz(CT) 0.04 8	n/a n/a	
BCDL 1	10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 1	17 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-

WFBS

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

2-0-0

3-9-5

3-2-11

2x4 SP No.3 REACTIONS. (size) 8=0-5-8, 2=0-5-8

Max Horz 2=125(LC 8)

Max Uplift 8=-722(LC 4), 2=-551(LC 8) Max Grav 8=1602(LC 1), 2=1361(LC 1)

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

TOP CHORD 2-3=-2589/1122, 3-4=-2440/1087, 4-5=-2259/1037, 5-6=-2134/953

2-11=-1091/2339, 9-11=-1077/2384, 8-9=-748/1653 BOT CHORD 4-11=-233/616, 5-9=-454/239, 6-9=-394/880, 6-8=-2014/912 WEBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp 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.
- 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 722 lb uplift at joint 8 and 551 lb uplift at
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 85 lb up at 7-0-0, 109 lb down and 85 lb up at 9-0-12, 109 lb down and 85 lb up at 11-0-12, 109 lb down and 79 lb up at 13-0-12, 109 lb down and 85 lb up at 15-0-12, and 109 lb down and 85 lb up at 17-0-12, and 124 lb down and 84 lb up at 19-0-12 on top chord, and 295 lb down and 230 lb up at 7-0-0, 86 lb down and 60 lb up at 9-0-12, 86 lb down and 60 lb up at 11-0-12, 86 lb down and 60 lb up at 13-0-12, 86 lb down and 60 lb up at 15-0-12, and 86 lb down and 60 lb up at 17-0-12, and 97 lb down and 54 lb up at 19-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-7=-54, 8-12=-20



Structural wood sheathing directly applied or 3-4-7 oc purlins,

6-8

Rigid ceiling directly applied or 7-0-4 oc bracing

except end verticals.

1 Row at midpt

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

September 15,2021

### 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 chorembers 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	IC CONST SPENCE RES.
	T24			l .	T25355943
2932802	T21	Half Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:28 2021 Page 2 ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-2Qp5T?rqgSWZdPWXjg6Yq2u6rcfCSHy4ww\_XVeydPuD

LOAD CASE(S) Standard

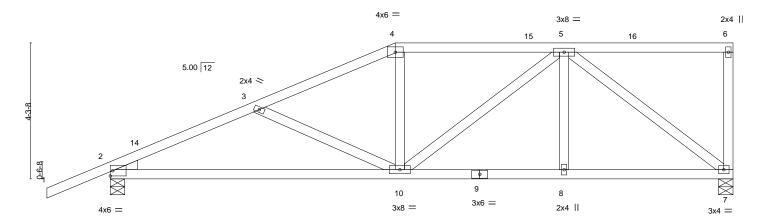
Concentrated Loads (lb)

Vert: 4=-109(F) 11=-279(F) 5=-109(F) 9=-58(F) 15=-109(F) 16=-109(F) 17=-109(F) 18=-109(F) 19=-124(F) 20=-58(F) 21=-58(F) 22=-58(F) 23=-58(F) 24=-64(F)



IC CONST. - SPENCE RES. Job Truss Truss Type Qtv Plv T25355944 2932802 T22 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:28 2021 Page 1 Lake City, FL - 32055, ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-2Qp5T?rqgSWZdPWXjg6Yq2uA1ccASCa4ww\_XVeydPuD 14-4-0 . 19-8-0 2-0-0 4-8-8 4-3-8 5-4-0 5-4-0

Scale = 1:36.4



-	9-0-0 9-0-0		14-4-0 5-4-0	19-8-0 5-4-0
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014	CSI. TC 0.32 BC 0.71 WB 0.72 Matrix-MS	Vert(LL) -0.14 10-13 >999 2 Vert(CT) -0.27 10-13 >852 1	

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WFBS WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 7=0-5-8, 2=0-5-8

Max Horz 2=154(LC 12)

Max Uplift 7=-182(LC 8), 2=-216(LC 12) Max Grav 7=717(LC 1), 2=836(LC 1)

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

TOP CHORD 2-3=-1284/324, 3-4=-1010/234, 4-5=-893/240 2-10=-382/1134, 8-10=-186/728, 7-8=-186/728 BOT CHORD

**WEBS** 3-10=-270/154, 5-7=-900/230

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 19-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 7 and 216 lb uplift at joint 2.



Structural wood sheathing directly applied or 4-10-14 oc purlins,

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

except end verticals.

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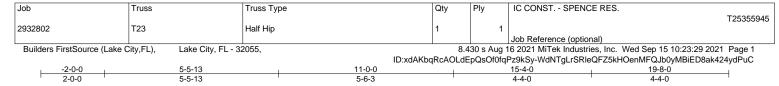
September 15,2021

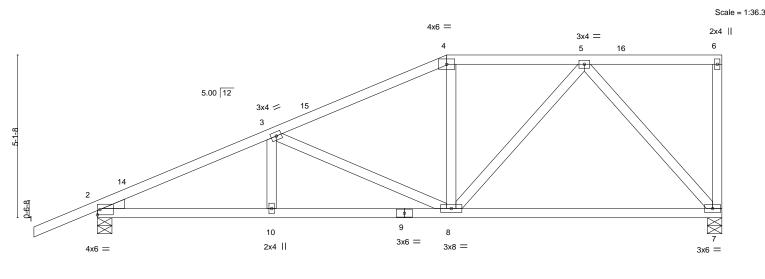
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\*\*ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601







11-0-0

5-6-3

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

**BRACING-**

TOP CHORD

BOT CHORD

in (loc)

7-8

7-8

-0.14

-0.29

0.03

I/defI

>999

>812

except end verticals.

n/a

CSI.

TC

вс

WB

Matrix-MS

0.39

0.64

0.57

LUMBER-

LOADING (psf)

**TCLL** 

TCDL

**BCLL** 

**BCDL** 

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

20.0

7.0

0.0

10.0

WEDGE Left: 2x4 SP No.3

REACTIONS. (size) 7=0-5-8, 2=0-5-8

Max Horz 2=183(LC 12)

Max Uplift 7=-177(LC 8), 2=-213(LC 12) Max Grav 7=717(LC 1), 2=836(LC 1)

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

5-5-13

Code FBC2020/TPI2014

2-0-0

1.25

1.25

YES

SPACING-

Plate Grip DOL

Rep Stress Incr

Lumber DOL

2-3=-1293/292, 3-4=-862/196, 4-5=-741/208 TOP CHORD 2-10=-379/1137, 8-10=-379/1137, 7-8=-140/487 BOT CHORD **WEBS** 3-8=-436/186, 5-8=-104/387, 5-7=-722/218

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-4-0, Interior(1) 15-4-0 to 19-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 7 and 213 lb uplift at joint 2.



8-8-0

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

PLATES

Weight: 108 lb

MT20

GRIP

244/190

FT = 20%

L/d

240

180

n/a

Rigid ceiling directly applied or 9-6-8 oc bracing.

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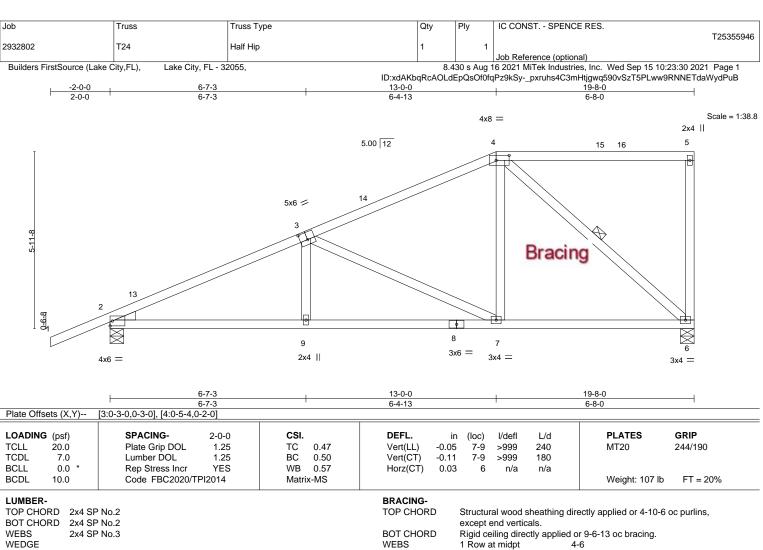
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BOT CHORD **WEBS** 

WEDGE Left: 2x4 SP No.3

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

Max Horz 2=211(LC 12)

Max Uplift 6=-180(LC 12), 2=-208(LC 12) Max Grav 6=717(LC 1), 2=836(LC 1)

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

TOP CHORD 2-3=-1265/272, 3-4=-694/154

BOT CHORD 2-9=-381/1104, 7-9=-381/1104, 6-7=-177/585 WEBS 3-7=-581/226, 4-7=-51/462, 4-6=-752/229

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-15, Interior(1) 17-2-15 to 19-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 6 and 208 lb uplift at joint 2.



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Qty Ply IC CONST. - SPENCE RES. Job Truss Truss Type T25355947 2932802 Half Hip Girder T25 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:32 2021 Page 1 ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-xC2cJMuKkg0?61qlyWBU\_t2mkD?YOyjgqYykePydPu9 <u>16-7-8</u> 13-8-14 19-8-0 4-11-6 4-4-12 4-4-12 2-10-10 3-0-8 Scale = 1:39.2 6x8 = 2x4 || 6x8 =5 6 5x8 / 5.00 12 3 3x4 = Uplift 16 17 10 18 19 8 20 9 12 11 4x12 =8x10 = 3x6 || 10x12 = 10x12 = 10x12 =19-8-0 4-11-6 4-4-12 4-4-12 2-10-10 3-0-8 Plate Offsets (X,Y)--[1:0-0-0,0-0-3], [4:0-6-4,0-2-12], [6:0-4-0,0-2-4], [7:0-5-4,0-1-8], [9:0-3-8,0-6-0], [11:0-3-8,0-6-4] LOADING (psf) SPACING-2-0-0 CSI DEFL L/d **PLATES** GRIP (loc) I/defI Plate Grip DOL 1.25 TC -0.17 11-12 244/190 **TCLL** 20.0 0.66 Vert(LL) >999 240 MT20 -0.32 11-12 TCDL Lumber DOL 1.25 вс 0.61 Vert(CT) 180 7.0 >736 **BCLL** 0.0 Rep Stress Incr NO WB 0.97 Horz(CT) 0.04 n/a n/a **BCDL** Code FBC2020/TPI2014 Matrix-MS Weight: 321 lb FT = 20% 10.0

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x8 SP 2400F 2 0F 2x4 SP No.2 \*Except\* WFBS

6-7: 2x6 SP No.2, 2-12,2-11,3-9: 2x4 SP No.3

**BRACING-**

TOP CHORD

Structural wood sheathing directly applied or 3-1-14 oc purlins,

except end verticals.

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

REACTIONS. (size) 1=0-5-8, 7=0-5-8

Max Horz 1=197(LC 8)

Max Uplift 1=-1700(LC 8), 7=-2222(LC 8) Max Grav 1=5069(LC 1), 7=7820(LC 2)

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

1-2=-11936/4075, 2-3=-10510/3419, 3-4=-5652/1707, 4-5=-3154/950, 5-6=-3154/950, TOP CHORD

6-7=-6520/1959

 $1\hbox{-}12\hbox{-}3905/10960,\ 11\hbox{-}12\hbox{-}3905/10960,\ 9\hbox{-}11\hbox{-}3249/9677,\ 8\hbox{-}9\hbox{-}-1646/5327$ 

BOT CHORD WEBS 2-12=-491/1020, 2-11=-1427/731, 3-11=-1972/5545, 3-9=-5994/2196, 4-9=-1961/6338,

4-8=-4893/1566. 6-8=-2146/7112

### NOTES-

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

Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 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.
- Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp 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 1700 lb uplift at joint 1 and 2222 lb uplift at joint 7.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3156 lb down and 1443 lb up at 7-1-9, 1452 lb down and 412 lb up at 9-0-12, 1452 lb down and 410 lb up at 11-0-12, 1627 lb down and 407 lb up at 13-0-12, 1641 lb down and 393 lb up at 15-0-12, and 1351 lb down and 317 lb up at 17-0-12, and 1354 lb down and 287 lb up at 19-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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

September 15,2021

### CAARUGASE(S)geStandard

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Job	Truss	Truss Type	Qty	Ply	IC CONST SPENCE RES.
2932802	T25	Half Hip Girder	1	_	T25355947
2932602	123	nali nip diluei		2	Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 15 10:23:32 2021 Page 2 ID:xdAKbqRcAOLdEpQsOf0fqPz9kSy-xC2cJMuKkg0?61qIyWBU\_t2mkD?YOyjgqYykePydPu9

### LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-6=-54, 7-13=-20

Concentrated Loads (lb)

Vert: 11=-1452(B) 16=-3156(B) 17=-1452(B) 18=-1452(B) 19=-1452(B) 20=-1192(B) 21=-1200(B)



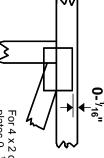
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### Symbols

## 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- <sup>1</sup>/16" from outside edge of truss.

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

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

### PLATE SIZE

4 × 4

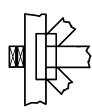
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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**



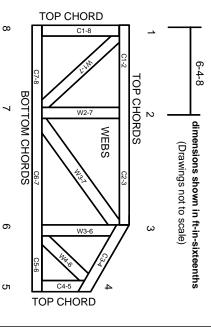
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

### Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

## **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.

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- 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.

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- 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.

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- 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.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
  21.The design does not take into account any dynamic or other loads other than those expressly stated.