

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

RE: 2918720 - STEVE SMITH - NEWTON

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: Steve Smith Const. Project Name: Newton Res. Model: Custom

Lot/Block: N/A

Subdivision: N/A

Address: TBD, TBD

City: Levy 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

Wind Code: ASCE 7-16

Roof Load: 37.0 psf

Design Program: MiTek 20/20 8.4

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

This package includes 18 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
123456789101234567891112345678	T25172981 T25172982 T25172983 T25172984 T25172986 T25172986 T25172987 T25172989 T25172991 T25172991 T25172992 T25172993 T25172994 T25172995 T25172997 T25172997 T25172997	CJ01 CJ03 CJ05 EJ01 HJ10 T01 T02 T03 T04 T05 T06 T07 T08 T08G T09 T10 T10G T11	8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21

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

Truss Design Engineer's Name: ORegan, Philip

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

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

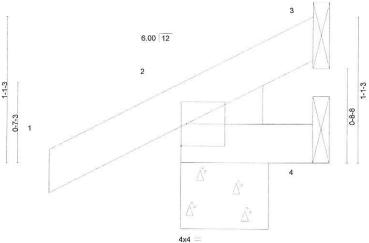


6904 Parke East Blvd. Tampa FL 33610

August 27,2021

STEVE SMITH - NEWTON Job Truss Truss Type Qty Ply T25172981 2918720 **CJ01** Jack-Open Jou Reterence (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:06 2021 Page 1
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-PxqfY0GY8dKSCS44ZeQWm8nQfu?Vyalf7MPJyryjwEB Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 1-0-0 1-0-0 Scale = 1:8.3



1-0-0 1-0-0

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	0.06	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	-0.00	5	>999	180	Non-Maria	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP	3 1					Weight: 6 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 WEDGE

Left: 2x4 SP No.3

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

Max Horz 2=32(LC 12) Max Uplift 3=-8(LC 12), 2=-32(LC 12), 4=-1(LC 12)

Max Grav 3=8(LC 1), 2=118(LC 1), 4=12(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) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



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

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

August 27,2021

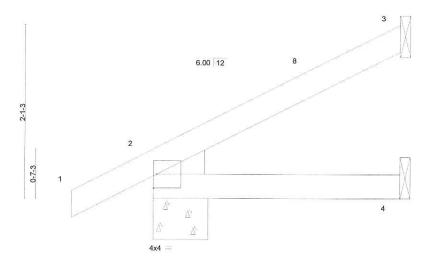
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



Job Truss Truss Type STEVE SMITH - NEWTON Qty Plv T25172982 2918720 CJ03 Jack-Open Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:06 2021 Page 1
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-PxqfY0GY8dKSCS44ZeQWm8nPlu_Lyalf7MPJyryjwEB Builders FirstSource (Lake City,FL), Lake City, FL - 32055, -1-0-0 3-0-0 3-0-0 1-0-0





LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.08	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	-0.01	4-7	>999	180	INCINCESCO	
CLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP						Weight: 12 lb	FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

BRACING-

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

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

REACTIONS.

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

Max Horz 2=65(LC 12)

Max Uplift 3=-40(LC 12), 2=-36(LC 12), 4=-4(LC 12) Max Grav 3=64(LC 1), 2=172(LC 1), 4=51(LC 3)

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

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



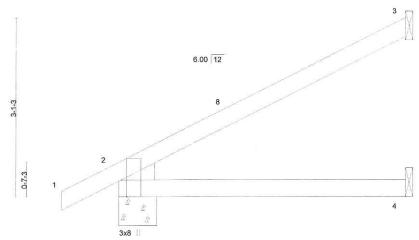
6904 Parke East Blvd. Tampa FL 33610

August 27,2021



STEVE SMITH - NEWTON Truss Type Qtv Job Truss T25172983 2918720 CJ05 Jack-Open Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:07 2021 Page 1 Lake City, FL - 32055, Builders FirstSource (Lake City,FL), ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-t7N1mMHAvxSJpbfG7LxlJLKXnHHmh1_oM08tUlyjwEA 1-0-0 5-0-0 5-0-0 1-0-0





5-0-0 Plate Offsets (X,Y)-- [2:0-3-8,Edge] L/d **PLATES** GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL. in I/defl (loc) Plate Grip DOL 1.25 0.29 0.04 4-7 >999 240 MT20 244/190 TCLL 20.0 TC Vert(LL) -0.06 1.25 вс 0.26 Vert(CT) >999 180 TCDL 7.0 Lumber DOL WB 0.00 0.01 BCLL 0.0 Rep Stress Incr YES Horz(CT) n/a Code FBC2020/TPI2014 Matrix-MP Weight: 18 lb FT = 20% BCDL 10.0

5-0-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 WEDGE

Left: 2x4 SP No.3

REACTIONS.

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

Max Horz 2=100(LC 12)

Max Uplift 3=-70(LC 12), 2=-46(LC 12), 4=-4(LC 12) Max Grav 3=115(LC 1), 2=242(LC 1), 4=89(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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



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

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

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

August 27,2021



6904 Parke East Blvd.

Job STEVE SMITH - NEWTON Truss Truss Type Qty Plv T25172984 2918720 EJ01 Jack-Partial 24 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:07 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-t7N1mMHAvxSJpbfG7LxIJLKSNHDqh1_oM08tUIyjwEA Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 7-0-0 7-0-0 1-0-0 Scale = 1:23.4 6.00 12 0-7-3 7-0-0 Plate Offsets (X,Y)--[2:Edge,0-2-6] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in I/defl L/d (loc) TCLL 20.0 Plate Grip DOL 1.25 TC 0.64 Vert(LL) 0.13 244/190 4-7 >660 240 MT20 TCDL 1.25 BC 7.0 Lumber DOL 0.51 Vert(CT) -0.23>369 180 BCLL 0.0 WB 0.00 Rep Stress Incr YES 0.03 Horz(CT) 2 n/a n/a BCDL Code FBC2020/TPI2014 10.0 Matrix-MS Weight: 25 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEDGE REACTIONS.

Left: 2x4 SP No.3

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

Max Horz 2=129(LC 12)

Max Uplift 3=-88(LC 12), 2=-59(LC 12), 4=-3(LC 12)

Max Grav 3=165(LC 1), 2=315(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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



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

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

August 27,2021

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2870 Crain Highway, Suite 203 Waldorf, MD 20801



Truss Type Qty Ply STEVE SMITH - NEWTON Job Truss T25172985 HJ10 Diagonal Hip Girder 2 2918720 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:08 2021 Page 1 Lake City, FL - 32055, Builders FirstSource (Lake City,FL), ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-LJxPzilogEa9RIESh3S_rZsbOhUoQNmyaguQ1kyjwE9 9-10-1 Scale = 1:24.3 13 4.24 12 3x4 12 3 0-7-3 15 16 6 7 2x4 4x4 3x6 9-10-1 9-9-5 0-6-4 0-0-12 Plate Offsets (X,Y)-- [2:0-2-0,0-5-3] DEFL. I/defl L/d **PLATES** GRIP LOADING (psf) SPACING-2-0-0 CSI 244/190 Plate Grip DOL TC 0.75 Vert(LL) 0.09 6-7 >999 240 MT20 TCLL 20.0 1.25 BC 0.79 Vert(CT) -0.19 6-7 >613 180 TCDL Lumber DOL 1.25 7.0 5 WB 0.48 Horz(CT) 0.01 n/a 0.0 Rep Stress Incr n/a BCLL FT = 20%Code FBC2020/TPI2014 Matrix-MS Weight: 44 lb BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WEBS WEDGE

Left: 2x4 SP No.3

REACTIONS.

(size) 4=Mechanical, 2=0-10-15, 5=Mechanical Max Horz 2=137(LC 4)

Max Uplift 4=-90(LC 4), 2=-175(LC 4), 5=-96(LC 8)

Max Grav 4=170(LC 1), 2=488(LC 1), 5=299(LC 1)

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

TOP CHORD 2-3=-803/255

2-7=-331/738, 6-7=-331/738 **BOT CHORD**

3-7=-6/285, 3-6=-776/348 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; Lumber DOL=1.60 plate grip DOL=1.60

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

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

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=175

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 9 lb up at 1-6-1, 53 lb down and 9 lb up at 1-6-1, 23 lb down and 43 lb up at 4-4-0, 23 lb down and 43 lb up at 4-4-0, and 44 lb down and 81 lb up at 7-1-15, and 44 lb down and 81 lb up at 7-1-15 on top chord, and 5 lb down and 3 lb up at 1-6-1, 5 lb down and 3 lb up at 1-6-1, 20 lb down and 13 lb up at 4-4-0, 20 lb down and 13 lb up at 4-4-0, and 39 lb down and 20 lb up at 7-1-15, and 39 lb down and 20 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



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

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

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

August 27,2021

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 MITE® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system, Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property language. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2870 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON
2918720	HJ10	Diagonal Hip Girder	2	1	T25172985
		Diagonal rip Gilder	-		Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:08 2021 Page 2 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-LJxPzilogEa9RlESh3S_rZsbOhUoQNmyaguQ1kyjwE9

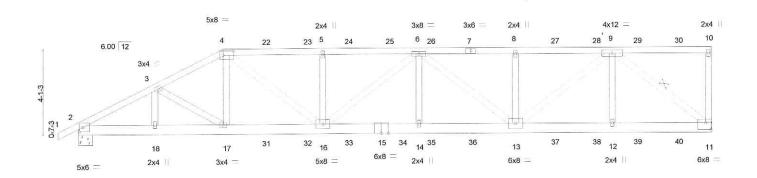
LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 12=-2(F=-1, B=-1) 13=-77(F=-39, B=-39) 15=6(F=3, B=3) 16=-17(F=-8, B=-8) 17=-68(F=-34, B=-34)

Job		Truss	Truss Type		Qty	Ply	STEVE SMITH - NEWTON		T25172986
2918720		T01	Half Hip Girder		2	1			
2010120							Job Reference (optional)		
Builders FirstS	ource (Lake C	City,FL), Lake City, I	FL - 32055,				16 2021 MiTek Industries, Inc. T IBfL1zZ5Cf-Hi39OOK2Csqth3Ord		
-1-0-0	3-8-4	7-0-0	11-9-14	16-5-15		21-2-1	25-10-2	30-8-0	J ***
1-0-0	3-8-4	3-3-12	4-9-14	4-8-2		4-8-2	4-8-2	4-9-14	Mi

Scale = 1:53.3



04	3-8-	-4 7-0-0	11-9-14		16-5-15	21-2	2-1		25-10-2	30-8-0	
1	3-8-	-4 3-3-12	4-9-14		4-8-2	4-8	-2		4-8-2	4-9-14	
Plate Offse	ets (X,Y)	[2:0-2-0,0-2-8], [4:0-6-0,0	-2-8], [11:Edge,0	-4-4]							
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL	in	1000	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.7	3 Vert(L	.) -0.23	14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.9	B Vert(C	Γ) -0.44	14-16	>841	180		
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code FBC2020/T	NO PI2014	WB 0.8 Matrix-MS		T) 0.10	11	n/a	n/a	Weight: 199 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SP No.2 *Except* TOP CHORD

4-7: 2x4 SP M 31

BOT CHORD 2x6 SP M 26 *Except* 11-15: 2x6 SP No.2

WEBS 2x4 SP No.3

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

Max Horz 2=136(LC 8)

Max Uplift 11=-831(LC 5), 2=-733(LC 8) Max Grav 11=2462(LC 1), 2=2267(LC 1)

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

2-3=-4010/1305, 3-4=-4182/1405, 4-5=-4939/1670, 5-6=-4939/1670, 6-8=-4411/1489, TOP CHORD

8-9=-4411/1489

BOT CHORD

2-18=-1242/3532, 17-18=-1242/3532, 16-17=-1286/3737, 14-16=-1743/5171, 13-14=-1743/5171, 12-13=-928/2743, 11-12=-928/2743 3-18=-322/154, 3-17=-235/344, 4-17=-129/585, 4-16=-550/1570, 5-16=-547/287, **WEBS**

6-16=-338/125, 6-14=-5/398, 6-13=-971/369, 8-13=-492/256, 9-13=-717/2133,

9-12=0/422, 9-11=-3464/1169

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.

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

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=831, 2=733.



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

Rigid ceiling directly applied or 5-7-12 oc bracing.

except end verticals.

1 Row at midpt

Philip J. O'Regan PE No.58126 6904 Parke East Blvd. Tampa FL 33610

August 27,2021

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

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Truss Type	Qty	Ply	STEVE SMITH - NEWTON	T0517000
Half Hip Girder	2	1		T25172986
			Job Reference (optional)	
	8550	850.	3.50	Half Hip Girder 2 1

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:10 2021 Page 2 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-Hi39OOK2Csqth3OroTUTw_yx8V7FuAfF2zNX5cyjwE7

NOTES

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 130 lb down and 92 lb up at 7-0-0, 111 lb down and 92 lb up at 9-0-12, 111 lb down and 92 lb up at 11-0-12, 111 lb down and 92 lb up at 15-0-12, 111 lb down and 92 lb up at 15-0-12, 111 lb down and 92 lb up at 15-0-12, 111 lb down and 92 lb up at 15-0-12, 111 lb down and 92 lb up at 15-0-12, 111 lb down and 92 lb up at 15-0-12, and 111 lb down and 92 lb up at 15-0-12, and 111 lb down and 92 lb up at 15-0-12, and 111 lb down and 92 lb up at 15-0-12, and 111 lb down and 23 lb up at 15-0-12, 86 lb do

LOAD CASE(S) Standard

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

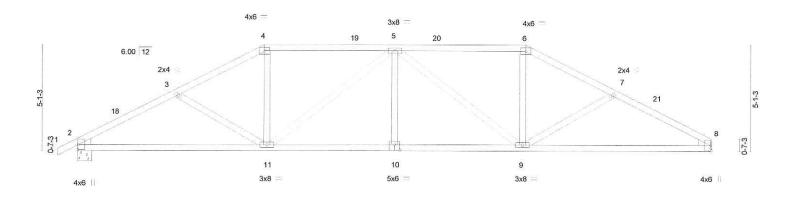
Vert: 1-4=-54, 4-10=-54, 11-19=-20

Concentrated Loads (lb)

Vert: 4=-111(B) 7=-111(B) 17=-339(B) 8=-111(B) 13=-68(B) 22=-111(B) 23=-111(B) 25=-111(B) 25=-111(B) 25=-111(B) 27=-111(B) 29=-111(B) 20=-111(B) 20=-111(B

Job Truss Truss Type Qty STEVE SMITH - NEWTON Plv T25172987 2918720 T02 Hip 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:11 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-ludYckKhz9ykIDy1MB?iTBUALvXJdh_OGd64d3yjwE6 1-0-0 9-0-0 15-4-0 21-8-0 25-10-4 30-8-0 4-9-12 4-2-4 6-4-0 6-4-0 4-2-4 4-9-12

Scale = 1:53.2



1		9-0-0	- 3	15	-4-0	9	21-8-0				30-8-0	V.
	9-0-0		6-4-0			6-4-0						
Plate Offse	ets (X,Y)	[10:0-3-0,0-3-0]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.13	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.25	9-17	>999	180	7372	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	k-MS	and the second					Weight: 155 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD 2x4 SP No.3 WFBS

WEDGE

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

REACTIONS.

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

Max Horz 2=82(LC 16)

Max Uplift 2=-266(LC 12), 8=-244(LC 13)

Max Grav 2=1190(LC 1), 8=1134(LC 1)

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

2-3=-1955/439, 3-4=-1753/379, 4-5=-1538/371, 5-6=-1541/372, 6-7=-1756/382, TOP CHORD

7-8=-1962/442 2-11=-403/1689, 10-11=-343/1862, 9-10=-343/1862, 8-9=-339/1697

BOT CHORD WEBS

4-11=-71/501, 5-11=-499/164, 5-9=-497/163, 6-9=-71/502

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) -1-0-0 to 2-0-13, Interior(1) 2-0-13 to 9-0-0, Exterior(2R) 9-0-0 to 13-4-1, Interior(1) 13-4-1 to 21-8-0, Exterior(2R) 21-8-0 to 26-0-1, Interior(1) 26-0-1 to 30-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) Refer to girder(s) for truss to truss connections
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=266, 8=244.



Structural wood sheathing directly applied or 3-10-9 oc purlins.

Rigid ceiling directly applied or 9-3-0 oc bracing.

6904 Parke East Blvd. Tampa FL 33610

August 27,2021

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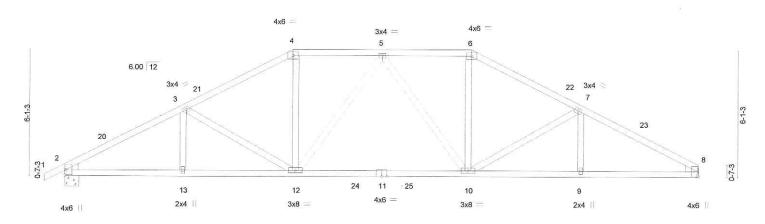
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



	STEVE SMITH - NEWTO	Ply	Qty		Truss Type	Truss	Job
T251							
		1	2		Hip	T03	2918720
	Job Reference (optional)				27		
c. Thu Aug 26 16:41:12 2021 Page	16 2021 MiTek Industries.	430 s Aug	8		ke City, FL - 32055,	ce (Lake City,FL), La	Builders FirstSource
DwuXx0P1LhlsPMD1XVHseAVviwE							
30-8-0	24-11-9	- 9	19-8-0	15-4-0	11-0-0	5-8-7	-1-0-0
5-8-7	5-3-9		4-4-0	4-4-0	5-3-9	5-8-7	1-0-0

Scale = 1:53.2



		5-8-7 5-8-7	11-0-0 5-3-9		19-8-0 8-8-0			-11-9 -3-9	30-8-0 5-8-7	-
LOADING	(psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.25	CSI. TC 0.41	DEFL. Vert(LL)	in (loc) -0.23 10-12	l/defl >999	L/d 240	PLATES	GRIP
TCDL	7.0	Lumber DOL	1.25	BC 0.81		-0.40 10-12	>914	180	MT20	244/190
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code FBC2020/TI	YES PI2014	WB 0.27 Matrix-MS	Horz(CT)	0.09 8	n/a	n/a	Weight: 162 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

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

REACTIONS.

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

Max Horz 2=97(LC 16)

Max Uplift 2=-263(LC 12), 8=-242(LC 13) Max Grav 2=1275(LC 2), 8=1230(LC 2)

BOT CHORD

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2113/416, 3-4=-1781/371, 4-5=-1558/364, 5-6=-1559/362, 6-7=-1782/372,

7-8=-2119/420

2-13=-393/1836, 12-13=-393/1836, 10-12=-238/1628, 9-10=-315/1842, 8-9=-315/1842 3-12=-354/177, 4-12=-78/567, 5-12=-257/114, 5-10=-256/113, 6-10=-77/568,

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 and C-C Exterior(2E) -1-0-0 to 2-0-13, Interior(1) 2-0-13 to 11-0-0, Exterior(2R) 11-0-0 to 15-4-0, Interior(1) 15-4-0 to 19-8-0, Exterior(2R) 19-8-0 to 24-0-1, Interior(1) 24-0-1 to 30-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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 100 lb uplift at joint(s) except (jt=lb) 2=263, 8=242.



Structural wood sheathing directly applied or 3-8-12 oc purlins.

Rigid ceiling directly applied or 9-4-12 oc bracing.

Philip J. O'Regan PE No.58126 6904 Parke East Blvd. Tampa FL 33610

August 27,2021

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

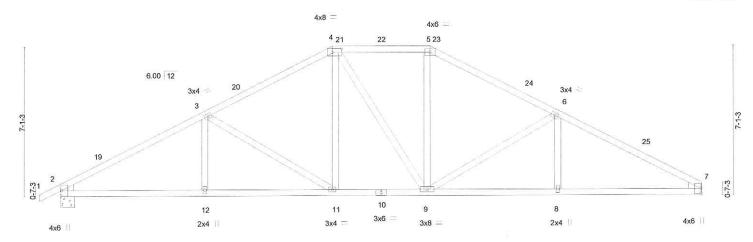
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



6904 Parke East Blvd. Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON	T25172989
2918720	T04	Hip	2	1		123172909
					Job Reference (optional)	
Builders FirstSource	e (Lake City,FL), La	ke City, FL - 32055,	ID:PCDxl		16 2021 MiTek Industries, Inc. Thu Aug 26 JI8fL1zZ5Cf-iHII0PMxVnDSYW6QUc2AYca	
-1-0-0	6-10-10	13-0-0	17-8-0	2	3-9-6 30-8-0	0
1-0-0	6-10-10	6-1-6	4-8-0		3-1-6 6-10-1	0

Scale = 1:52.6



1		6-10-10 6-10-10		3-0-0 5-1-6	17-8-0 4-8-0	23-9-6	-	6-10-10	
Plate Offse	ets (X,Y)	A Company of the Comp		,-1-0	400				
LOADING TCLL	20.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI. TC 0.44 BC 0.59	T. 600 (1000)	in (loc) I/defl -0.10 11-12 >999 -0.21 11-12 >999	L/d 240 180	PLATES MT20	GRIP 244/190
TCDL BCLL BCDL	7.0 0.0 * 10.0	Rep Stress Incr Code FBC2020/T	YES	WB 0.50 Matrix-MS	A SAME THE RESIDENCE OF THE PARTY OF THE PAR	0.08 7 n/a	n/a	Weight: 161 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 **WEBS**

WEDGE

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

REACTIONS.

(size) 2=0-8-0, 7=Mechanical

Max Horz 2=112(LC 16)

Max Uplift 2=-260(LC 12), 7=-239(LC 13)

Max Grav 2=1190(LC 1), 7=1134(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1946/402, 3-4=-1489/362, 4-5=-1267/358, 5-6=-1491/363, 6-7=-1952/404 2-12=-384/1670, 11-12=-384/1670, 9-11=-200/1267, 8-9=-300/1676, 7-8=-300/1676

BOT CHORD 3-11=-493/217, 4-11=-78/388, 5-9=-69/389, 6-9=-499/220 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 and C-C Exterior(2E) -1-0-0 to 2-0-13, Interior(1) 2-0-13 to 13-0-0, Exterior(2R) 13-0-0 to 17-4-1, Interior(1) 17-4-1 to 17-8-0, Exterior(2R) 17-8-0 to 22-0-1, Interior(1) 22-0-1 to 30-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=260, 7=239.



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

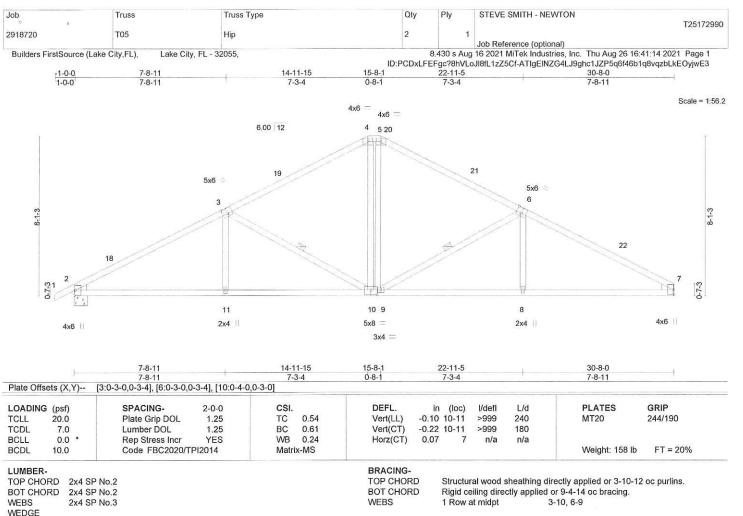
Rigid ceiling directly applied or 9-5-9 oc bracing.

August 27,2021

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

REACTIONS.

(size) 2=0-8-0, 7=Mechanical

Max Horz 2=126(LC 12)

Max Uplift 2=-257(LC 12), 7=-235(LC 13) Max Grav 2=1190(LC 1), 7=1134(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1927/390, 3-4=-1362/327, 4-5=-1140/329, 5-6=-1364/330, 6-7=-1932/393 TOP CHORD 2-11=-381/1648, 10-11=-382/1647, 9-10=-150/1140, 8-9=-272/1652, 7-8=-272/1653 **BOT CHORD** 3-11=0/289, 3-10=-621/266, 4-10=-127/433, 5-9=-127/433, 6-9=-626/268, 6-8=0/289 WEBS

NOTES-

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

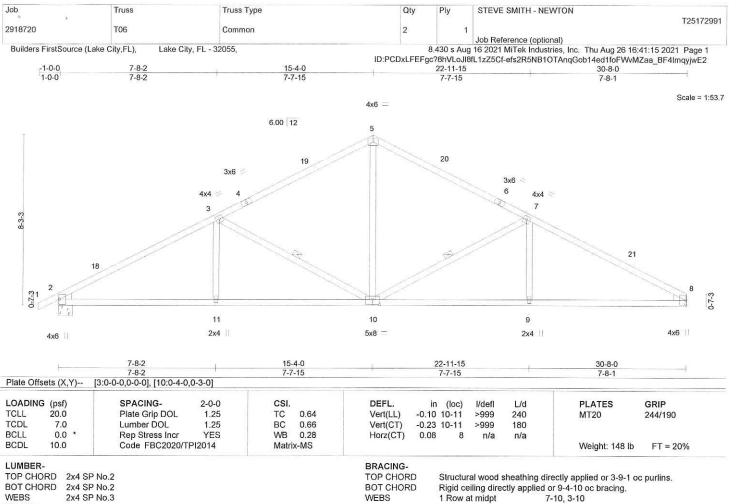
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-13, Interior(1) 2-0-13 to 14-11-15, Exterior(2E) 14-11-15 to 15-8-1, Exterior(2R) 15-8-1 to 20-0-1, Interior(1) 20-0-1 to 30-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=257, 7=235.



August 27,2021

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WEDGE

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

REACTIONS.

(size) 2=0-8-0, 8=Mechanical Max Horz 2=129(LC 12) Max Uplift 2=-256(LC 12), 8=-235(LC 13)

Max Grav 2=1190(LC 1), 8=1134(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1932/391, 3-5=-1356/335, 5-7=-1357/337, 7-8=-1937/395 BOT CHORD 2-11=-386/1654, 10-11=-386/1654, 9-10=-281/1660, 8-9=-281/1660 **WEBS** 5-10=-126/739, 7-10=-639/274, 7-9=0/289, 3-10=-633/272, 3-11=0/288

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) -1-0-0 to 2-0-13, Interior(1) 2-0-13 to 15-4-0, Exterior(2R) 15-4-0 to 18-4-13, Interior(1) 16-4-13 to 30-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads,
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except ([t=lb] 2=256, 8=235,



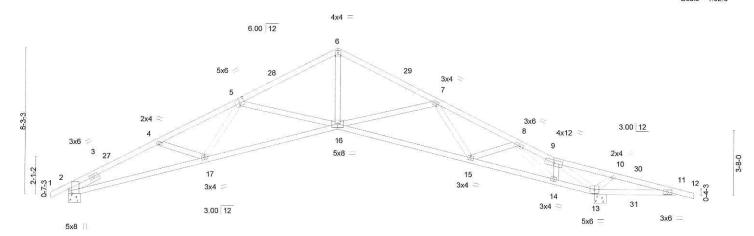
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August 27,2021

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Job Truss Truss Type STEVE SMITH - NEWTON Qtv Plv T25172992 2918720 T07 Roof Special 10 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:16 2021 Page 1 |D:PCDxLFEFgc?8hVLoJl8ft.1zZ5Cf-6sQRfROpoib1P_r?9kbtAFC_1wAhly97QvqrJGyjwE1 1-3 25-5-14 27-8-1 31-0-0 34-8-0 35-8-0 9-8-13 15-4-0 20-11-3 5-7-3 4-6-12 5-7-3 2-2-3 4-6-11 3-3-15 3-8-0 1-0-0



	1	7-8-13		15-4-0		22-11-2	2		27	7-8-1	30-0-0 30-8-0	34-8-0
	1	7-8-13		7-7-3		7-7-2			4-	8-15	2-3-15 0-8-0	4-0-0
Plate Offse	ets (X,Y)	[2:0-3-4,Edge], [5:0-3-0,0	-3-0]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.28	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.58	16-17	>619	180	200300036	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.33	13	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matrix	k-MS						Weight: 170	lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

1-5: 2x4 SP M 31

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

WEBS

SLIDER Left 2x4 SP No.3 1-11-8

REACTIONS.

BOT CHORD

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

Max Horz 2=123(LC 16)

Max Uplift 2=-252(LC 12), 13=-350(LC 13) Max Grav 2=1141(LC 1), 13=1532(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-4=-2676/624, 4-5=-2662/588, 5-6=-2087/434, 6-7=-2082/423, 7-8=-2431/391, TOP CHORD

8-9=-1248/235, 9-10=-838/882, 10-11=-710/648

2-17=-607/2339, 16-17=-529/2443, 15-16=-307/2245, 14-15=-276/1923, 13-14=-174/1242,

11-13=-597/703 **WEBS** 5-16=-615/292, 6-16=-252/1524, 7-16=-431/249, 8-15=-145/306, 8-14=-1192/619,

9-14=-302/684, 9-13=-2447/602, 10-13=-320/219

- 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) -1-0-0 to 2-5-10, Interior(1) 2-5-10 to 15-4-0, Exterior(2R) 15-4-0 to 18-9-10, Interior(1) 18-9-10 to 35-8-0 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=252, 13=350.



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

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

Philip J. O'Regan PE No.58126 6904 Parke East Blvd. Tampa FL 33610

August 27,2021

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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 20801



STEVE SMITH - NEWTON Job Truss Truss Type Qtv Plv T25172993 2918720 T08 Common Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:17 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-a2_psnPRZ?ju08QBjS66jSkELJfC1W0HfZZOriyjwE0 15-5-13 20-8-0 Lake City, FL - 32055, Builders FirstSource (Lake City,FL), 1-0-0 5-2-4 5-1-12 Scale = 1:37.1 4x4 = 18 6.00 12 2x4 2×4 5 3 19 0-7-3 9 8 7 3x4 3x6 -3x4 3x8 3x8 13-9-3 20-8-0 6-10-13 6-10-6 6-10-13 Plate Offsets (X,Y)-- [2:0-3-8,Edge], [6:0-3-8,Edge] DEFL. L/d **PLATES** GRIP LOADING (psf) SPACING-2-0-0 CSI. in I/defl (loc) 20.0 Plate Grip DOL 1.25 TC Vert(LL) -0.06 >999 244/190 TCLL 0.28 7-9 240 MT20 1.25 BC 0.45 Vert(CT) -0.13 >999 180 TCDL 7.0 Lumber DOL 7-9 0.0 WB 0.16 BCLL Rep Stress Inci YES Horz(CT) 0.03 6 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 97 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

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

REACTIONS.

(size) 2=0-8-0, 6=0-8-0

Max Horz 2=92(LC 12)

Max Uplift 2=-179(LC 12), 6=-158(LC 13) Max Grav 2=820(LC 1), 6=763(LC 1)

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

2-3=-1238/343, 3-4=-1106/347, 4-5=-1110/354, 5-6=-1242/349 **BOT CHORD** 2-9=-260/1057, 7-9=-122/725, 6-7=-256/1063

WEBS 4-7=-122/414, 5-7=-257/168, 4-9=-120/407, 3-9=-253/167

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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-4-0, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 20-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=179, 6=158,



Structural wood sheathing directly applied or 5-1-13 oc purlins.

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

August 27,2021

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Job Truss Truss Type STEVE SMITH - NEWTON Qtv Plv T25172994 2918720 T08G Common Supported Gable Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:18 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-2EYB47Q4KJrlel?NG9dLFgHTij5nm?sQuDJyN9yjwE? Builders FirstSource (Lake City,FL), Lake City, FL - 32055, -1-0-0 10-4-0 1-0-0 10-4-0 10-4-0 Scale = 1:38.0

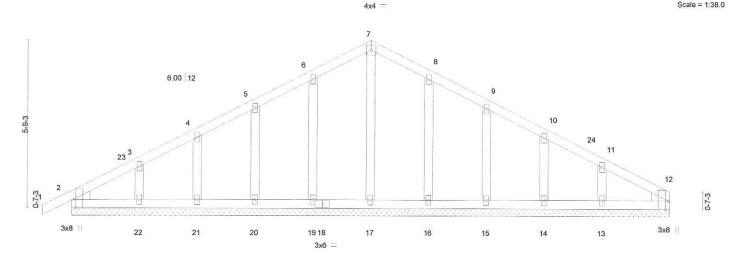


Plate Offs	ets (X,Y)	[2:0-3-8,Edge], [8:0-0-0,0	-0-0], [9:0-0-0,	0-0-0], [10:0-	0-0,0-0-0], [1	20-8-0 11:0-0-0,0-0-0], [12	2:0-3-8,E	dge]				
LOADING		SPACING-	2-0-0	CSI.	0.05	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL TCDL	20.0 7.0	Plate Grip DOL Lumber DOL	1.25 1.25	TC BC	0.05 0.04	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Vert(CT) Horz(CT)	0.00	12	n/r n/a	120 n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	<-S						Weight: 109 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

20-8-0

LUMBER-

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

2x4 SP No.3 OTHERS WEDGE

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

REACTIONS. All bearings 20-8-0.

(lb) - Max Horz 2=87(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 16, 15, 14, 13

Max Grav All reactions 250 lb or less at joint(s) 2, 17, 19, 20, 21, 22, 16, 15, 14, 13, 12

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

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

- 2) Wind: ASCE 7-16; 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 Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 10-4-0, Corner(3R) 10-4-0 to 13-4-0, Exterior(2N) 13-4-0 to 20-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 21, 22, 16, 15, 14, 13.



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

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

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August 27,2021

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Job Truss Truss Type Qty Ply STEVE SMITH - NEWTON T25172995 2918720 T09 Common Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:20 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-?dgxUpRKrw5Slb8mOagpK5MgZXgzEk3jLXo3R1yjwDz -1-0-0 10-4-0 15-3-13 20-8-0 1-0-0 4-11-12 4-11-12 5-4-3 Scale = 1:37.1 4x6 6.00 12 3x6 3x6 3 0-7-3 17 18 9 8 3x10 || 10x12 3x10 || 6x8 = 6x8 10-4-0 15-3-13 20-8-0 5-4-4 Plate Offsets (X,Y)--[2:Edge,0-4-1], [6:Edge,0-4-1], [8:0-6-0,0-6-0] LOADING (psf) SPACING-CSI. DEFL. I/defl L/d **PLATES** (loc) GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.61 Vert(LL) -0.14 8-9 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.51 Vert(CT) -0.27 >933 180 8-9 Rep Stress Incr BCLL 0.0 NO WB 0.71 Horz(CT) 0.04 n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 260 lb FT = 20% LUMBER-BRACING-TOP CHORD TOP CHORD 2x4 SP No.2 Structural wood sheathing directly applied or 3-5-6 oc purlins. **BOT CHORD** BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

2x8 SP 2400F 2.0E

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

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

Max Horz 2=92(LC 8)

Max Uplift 6=-1440(LC 9), 2=-1199(LC 8) Max Grav 6=6159(LC 1), 2=4549(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-9161/2430, 3-4=-7442/1891, 4-5=-7455/1891, 5-6=-10284/2435 TOP CHORD BOT CHORD 2-9=-2188/8128, 8-9=-2188/8128, 7-8=-2120/9148, 6-7=-2120/9148

WEBS 4-8=-1582/6323, 5-8=-2928/675, 5-7=-449/2451, 3-8=-1755/666, 3-9=-456/1412

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.
 - Bottom chords connected as follows: 2x8 2 rows staggered at 0-5-0 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; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=1440, 2=1199.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2442 lb down and 851 lb up at 7-0-12, 1114 lb down and 264 lb up at 9-0-12, 1210 lb down and 262 lb up at 11-0-12, 1114 lb down and 259 lb up at 13-0-12, 1114 lb down and 255 lb up at 15-0-12, and 1114 lb down and 255 lb up at 17-0-12, and 1114 lb down and 255 lb up at 19-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



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August 27,2021

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WARRING - 9 with design parameters and KAD NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-747 RW. 579/200 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON	
2918720	T09	Common Girder	1	2	Job Reference (optional)	T25172995
Builders FirstSource	e (Lake City,FL), Lake	City, FL - 32055,			g 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41 l8fL1zZ5Cf-?dgxUpRKrw5Stb8mOagpK5MgZXgzE	

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-6=-54, 10-13=-20

Concentrated Loads (lb)

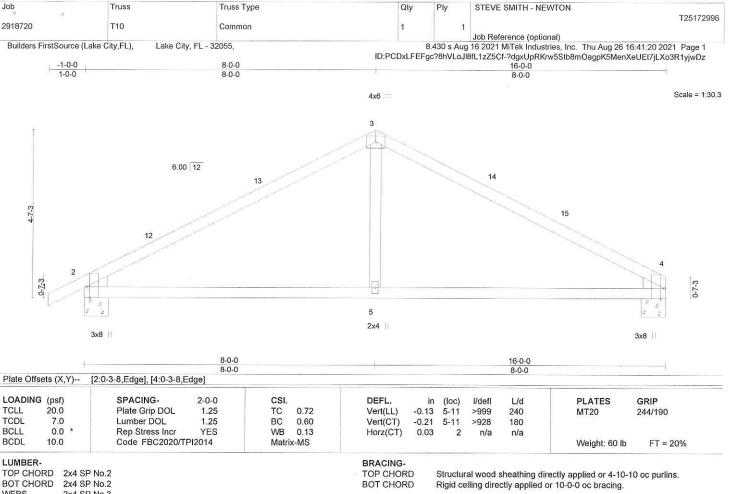
Vert: 7=-1114(B) 16=-2442(B) 17=-1114(B) 18=-1114(B) 19=-1114(B) 20=-1114(B) 21=-1114(B)

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2x4 SP No.3 WEBS

WEDGE

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

REACTIONS.

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

Max Horz 2=74(LC 16) Max Uplift 2=-144(LC 12), 4=-122(LC 13)

Max Grav 2=648(LC 1), 4=590(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-799/275, 3-4=-798/279 TOP CHORD

2-5=-154/636, 4-5=-154/636 BOT CHORD

WEBS 3-5=-5/350

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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 16-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=144, 4=122.



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

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



Job Truss Truss Type STEVE SMITH - NEWTON Qtv Ply T25172997 2918720 T10G Common Supported Gable Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:21 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-TpEKi9SycEDJVljyyHB2tlv_yx6czMpsaBXczUyjwDy Builders FirstSource (Lake City,FL), Lake City, FL - 32055, -1-0-0 8-0-0 8-0-0 1-0-0 Scale = 1:28.8 4x4 = 5 6.00 12 8 18 9 10 0-7-3 17 16 15 14 13 12 11 3x8 || 3x8 16-0-0 16-0-0 Plate Offsets (X,Y)--[2:0-3-8,Edge], [10:0-3-8,Edge] LOADING (psf) SPACING-DEFL. CSI L/d **PLATES** GRIP in I/defl TCLL 20.0 Plate Grip DOL 1.25 TC 0.05 Vert(LL) -0.00 120 MT20 244/190 n/r TCDL 7.0 Lumber DOL 1.25 BC 0.03 Vert(CT) -0.00 n/r 120 BCLL 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 10 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-S Weight: 78 lb FT = 20% BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD 2x4 SP No.3 OTHERS

WEDGE

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

REACTIONS. All bearings 16-0-0.

(lb) - Max Horz 2=70(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 15, 16, 17, 13, 12, 11

Max Grav All reactions 250 lb or less at joint(s) 2, 14, 15, 16, 17, 13, 12, 11, 10

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 Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 8-0-0, Corner(3R) 8-0-0 to 11-0-0, Exterior(2N) 11-0-0 to 16-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15, 16, 17, 13, 12, 11.



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

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

6904 Parke East Blvd. Tampa FL 33610

August 27,2021

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

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



Job Truss Truss Type STEVE SMITH - NEWTON Qty Ply T25172998 2918720 T11 Common Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:23 2021 Page 1 8.430 s Aug 16 2021 WITEK III.031165, III. 110 7.09 20 10. 1120 7.09 10 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-PCL47qUC8rT1k3tL3iDWyj_GgkkJR2n91V0j2MyjwDw 11-9-12 16-0-0 -1-0-0 8-0-0 1-0-0 3-9-12 3-9-12 4-2-4 Scale = 1:30.3 4x6 6.00 12 4x4 4x4 5 16 17 18 19 9 8 3x8 8x10 = 3x8 4x8 8-0-0 11-9-12 16-0-0 3-9-12 Plate Offsets (X,Y)--[2:Edge,0-2-1], [6:Edge,0-2-1], [8:0-5-0,0-5-12] LOADING (psf) SPACING-CSI. DEFL in I/defl L/d **PLATES** GRIP (loc) TCLL 20.0 Plate Grip DOL 1.25 TC 0.29 -0.07 Vert(LL) 7-8 >999 240 MT20 244/190 TCDI 7.0 Lumber DOL 1.25 BC 0.27 Vert(CT) -0.14 7-8 >999 180 BCLL 0.0 Rep Stress Incr NO WB 0.91 Horz(CT) 0.02 n/a n/a BCDI 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 201 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 **WEBS**

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

Max Horz 2=74(LC 8)

Max Uplift 6=-1235(LC 9), 2=-852(LC 8) Max Grav 6=5047(LC 1), 2=3089(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-5843/1619, 3-4=-5629/1556, 4-5=-5629/1555, 5-6=-7517/1901 **BOT CHORD** 2-9=-1457/5175, 8-9=-1457/5175, 7-8=-1653/6681, 6-7=-1653/6681

4-8=-1304/4764, 5-8=-1958/445, 5-7=-292/1657

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.
 - Bottom chords connected as follows: 2x8 2 rows staggered at 0-5-0 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; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads,
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=1235, 2=852
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2442 lb down and 851 lb up at 7-0-12, 1114 lb down and 264 lb up at 9-0-12, 1210 lb down and 262 lb up at 11-0-12, and 1114 lb down and 259 lb up at 13-0-12, and 1114 lb down and 254 lb up at 15-0-12 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



Structural wood sheathing directly applied or 4-5-0 oc purlins.

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

6904 Parke East Blvd. Tampa FL 33610

August 27,2021

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ANSITYP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



STEVE SMITH - NEWTON Truss Type Qty Truss Job T25172998 2918720 T11 Common Girder

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-4=-54, 4-6=-54, 10-13=-20

Concentrated Loads (lb)

Vert: 12=-1114(F) 16=-2442(F) 17=-1114(F) 18=-1114(F) 19=-1114(F)

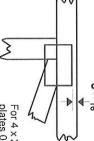
Symbols

PLATE LOCATION AND ORIENTATION



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

and fully embed teeth.



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

 ∞

0

G

G

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



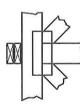
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

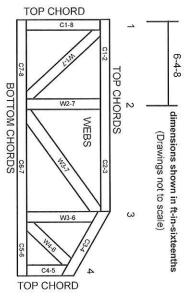
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Building Component Safety Information, Guide to Good Practice for Handling, Design Standard for Bracing. Installing & Bracing of Metal Plate Plate Connected Wood Truss Construction

Connected Wood Trusses

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

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

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

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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 bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

- Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, property owner and
- Cut members to bear tightly against each other.
- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- 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
- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- or less, if no ceiling is installed, unless otherwise noted Bottom chords require lateral bracing at 10 ft. spacing,
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.



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

RE: 2918720 - STEVE SMITH - NEWTON

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: Steve Smith Const. Project Name: Newton Res. Model: Custom

Lot/Block: N/A

Subdivision: N/A

Address: TBD, TBD City: Levy 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 Roof Load: 37.0 psf

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

This package includes 18 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. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Seal# T25172981 T25172982 T25172984 T25172985 T25172986 T25172987 T25172989 T25172990 T25172991 T25172991 T25172993 T25172994 T25172994	Truss Name CJ01 CJ03 CJ05 EJ01 HJ10 T01 T02 T03 T04 T05 T06 T07 T08 T08G T09	Date 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21 8/27/21

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

Truss Design Engineer's Name: ORegan, Philip

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

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



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

August 27,2021

Job Truss Truss Type Qty STEVE SMITH - NEWTON Ply T25172981 2918720 CJ01 Jack-Open 4 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:06 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-PxqfY0GY8dKSCS44ZeQWm8nQfu?Vyalf7MPJyryjwEB -1-0-0 1-0-0 1-0-0 1-0-0 Scale = 1:8.3 6.00 12 0-7-3 4 4x4 = 1-0-0 1-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.06 Vert(LL) -0.00 >999 5 240 244/190 MT20 7.0 TCDL Lumber DOL 1.25 BC 0.01 Vert(CT) -0.00 5 >999 180 BCII 00 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 2 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

WEDGE

Left: 2x4 SP No.3

REACTIONS.

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

Max Horz 2=32(LC 12)

Max Uplift 3=-8(LC 12), 2=-32(LC 12), 4=-1(LC 12) Max Grav 3=8(LC 1), 2=118(LC 1), 4=12(LC 3)

Code FBC2020/TPI2014

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

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp 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

Matrix-MP

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



Weight: 6 lb

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

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

FT = 20%

August 27,2021

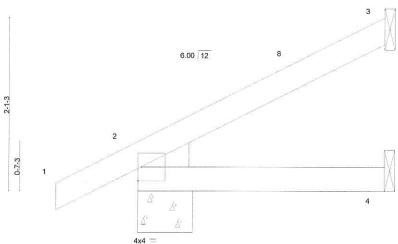
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Job Truss Truss Type Qty STEVE SMITH - NEWTON Plv T25172982 2918720 CJ03 Jack-Open 4 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:06 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-PxqfY0GY8dKSCS44ZeQWm8nPlu_Lyalf7MPJyryjwEB -1-0-0 3-0-0 3-0-0 1-0-0 Scale = 1:13.4



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/def L/d **PLATES** GRIP (loc) TCLL 20.0 Plate Grip DOL 1.25 TC 0.08 Vert(LL) 0.01 240 4-7 >999 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.08 Vert(CT) -0.01 180 >999 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MP Weight: 12 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

3-0-0

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

REACTIONS.

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

Max Horz 2=65(LC 12)

Max Uplift 3=-40(LC 12), 2=-36(LC 12), 4=-4(LC 12) Max Grav 3=64(LC 1), 2=172(LC 1), 4=51(LC 3)

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

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



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

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

August 27,2021

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Job Truss Truss Type Qty Ply STEVE SMITH - NEWTON T25172983 2918720 CJ05 Jack-Open 4 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:07 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-t7N1mMHAvxSJpbfG7LxlJLKXnHHmh1 oM08tUIviwEA -1-0-0 5-0-0 1-0-0 Scale = 1:19.2

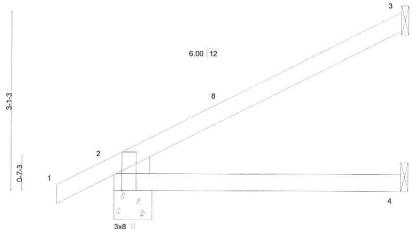


Plate Offsets (X,Y)-- [2:0-3-8,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.29 Vert(LL) 0.04 4-7 >999 244/190 240 MT20 TCDI 70 Lumber DOL 1.25 BC 0.26 Vert(CT) -0.06 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MP Weight: 18 lb FT = 20%

5-0-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

REACTIONS.

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

Max Horz 2=100(LC 12)

Max Uplift 3=-70(LC 12), 2=-46(LC 12), 4=-4(LC 12)

Max Grav 3=115(LC 1), 2=242(LC 1), 4=89(LC 3)

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

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



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

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

Date:

August 27,2021

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

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



Job Truss Truss Type Qty Ply STEVE SMITH - NEWTON T25172984 2918720 EJ01 Jack-Partial 24 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:07 2021 Page 1 Builders FirstSource (Lake City,FL) Lake City, FL - 32055, ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-t7N1mMHAvxSJpbfG7LxlJLKSNHDqh1 oM08tUlyiwEA -1-0-0 7-0-0 1-0-0 Scale = 1:23.4 10 6.00 12 0-7-3 5x6 [2:Edge,0-2-6] Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 CSI DEFL L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.64 Vert(LL) 0.13 4-7 >660 240 244/190 MT20 TCDL 7.0 Lumber DOL ВС 1.25 0.51 Vert(CT) -0.23 >369 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.03 BCDL Code FBC2020/TPI2014 10.0 Matrix-MS Weight: 25 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

REACTIONS.

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

Max Horz 2=129(LC 12)

Max Uplift 3=-88(LC 12), 2=-59(LC 12), 4=-3(LC 12)

Max Grav 3=165(LC 1), 2=315(LC 1), 4=126(LC 3)

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

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



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

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

August 27,2021

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

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



6904 Parke East Blvd. Tampa, FL 36610

Job Truss Truss Type Qty Ply STEVE SMITH - NEWTON T25172985 2918720 HJ10 Diagonal Hip Girder 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:08 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-LJxPzilogEa9RIESh3S_rZsbOhUoQNmyaguQ1kyjwE9 9-10-1 5-10-1 Scale = 1:24.3 13 4.24 12 3x4 12 3 0-7-3 15 17 6 3x4 2x4 3x6 9-10-1 9-3-1 9-9-5 0-6-4 0-0-12 Plate Offsets (X,Y)-- [2:0-2-0,0-5-3] LOADING (psf) SPACING-2-0-0 CSI. DEFL I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL TC BC 1.25 0.75 Vert(LL) 0.09 6-7 >999 240 MT20 244/190 TCDL 7.0 Lumber DOI 1 25 0.79 Vert(CT) -0.19 6-7 >613 180 0.0 BCLL Rep Stress Incr NO WB 0.48 Horz(CT) 0.01 n/a n/a BCDL Code FBC2020/TPI2014 10.0 Matrix-MS Weight: 44 lb FT = 20% LUMBER-BRACING-TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD

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

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

WEDGE

Left: 2x4 SP No.3

REACTIONS.

(size) 4=Mechanical, 2=0-10-15, 5=Mechanical

Max Horz 2=137(LC 4)

Max Uplift 4=-90(LC 4), 2=-175(LC 4), 5=-96(LC 8) Max Grav 4=170(LC 1), 2=488(LC 1), 5=299(LC 1)

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

TOP CHORD 2-3=-803/255

BOT CHORD 2-7=-331/738, 6-7=-331/738 **WEBS** 3-7=-6/285, 3-6=-776/348

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; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (it=lb) 2=175.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 9 lb up at 1-6-1, 53 lb down and 9 lb up at 1-6-1, 23 lb down and 43 lb up at 4-4-0, 23 lb down and 43 lb up at 4-4-0, and 44 lb down and 81 lb up at 7-1-15, and 44 lb down and 81 lb up at 7-1-15 on top chord, and 5 lb down and 3 lb up at 1-6-1, 5 lb down and 3 lb up at 1-6-1, 20 lb down and 13 lb up at 4-4-0, 20 lb down and 13 lb up at 4-4-0, and 39 lb down and 20 lb up at 7-1-15, and 39 lb down and 20 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



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

August 27,2021

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

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



6904 Parke East Blvd. Tampa, FL 36610

Job Truss Truss Type Qty Ply STEVE SMITH - NEWTON T25172985 Diagonal Hip Girder 2918720 HJ10 2 Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:08 2021 Page 2
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-LJxPzilogEa9RIESh3S_rZsbOhUoQNmyaguQ1kyjwE9 Lake City, FL - 32055,

Builders FirstSource (Lake City,FL),

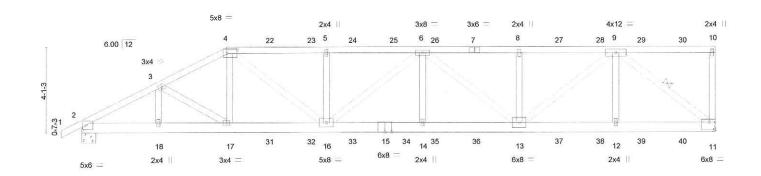
LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 12=-2(F=-1, B=-1) 13=-77(F=-39, B=-39) 15=6(F=3, B=3) 16=-17(F=-8, B=-8) 17=-68(F=-34, B=-34)

STEVE SMITH - NEWTON Job Truss Truss Type Qty T25172986 2 2918720 T01 Half Hip Girder Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:10 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-Hi39OOK2Csqth3OroTUTw_yx8V7FuAfF2zNX5cyjwE7 30-8-0 1-0-0 3-8-4 7-0-0 11-9-14 16-5-15 21-2-1 25-10-2 4-9-14 3-8-4 3-3-12 4-9-14

Scale = 1:53.3



	3-8-	4 7-0-0	11-9-1	14	16-5-15	Y	21-2-1		25-10-2	30-8-)
	3-8-	4 3-3-12	4-9-1	4	4-8-2	J.	4-8-2		4-8-2	4-9-1	4
Plate Offse	ets (X,Y)	[2:0-2-0,0-2-8], [4:0-6-0	,0-2-8], [11:Edge	,0-4-4]							
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	0.73	Vert(LL)	-0.23 14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.44 14-16	>841	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.10 11	n/a	n/a		
BCDL	10.0	Code FBC2020/	TPI2014	Matri	x-MS					Weight: 199 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

4-7: 2x4 SP M 31

2x6 SP M 26 *Except* BOT CHORD

11-15: 2x6 SP No.2

WEBS 2x4 SP No 3

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

Max Horz 2=136(LC 8)

Max Uplift 11=-831(LC 5), 2=-733(LC 8) Max Grav 11=2462(LC 1), 2=2267(LC 1)

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

2-3=-4010/1305, 3-4=-4182/1405, 4-5=-4939/1670, 5-6=-4939/1670, 6-8=-4411/1489, TOP CHORD

8-9=-4411/1489

BOT CHORD 2-18=-1242/3532, 17-18=-1242/3532, 16-17=-1286/3737, 14-16=-1743/5171,

13-14=-1743/5171, 12-13=-928/2743, 11-12=-928/2743

3-18=-322/154, 3-17=-235/344, 4-17=-129/585, 4-16=-550/1570, 5-16=-547/287, WEBS

6-16=-338/125, 6-14=-5/398, 6-13=-971/369, 8-13=-492/256, 9-13=-717/2133,

9-12=0/422, 9-11=-3464/1169

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.
- 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=831, 2=733.



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

9-11

Rigid ceiling directly applied or 5-7-12 oc bracing.

except end verticals.

1 Row at midpt

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

August 27,2021

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

AMAINING - Venty design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Truss Type	Qty	Ply	STEVE SMITH - NEWTON	
Half Hip Girder	2	1		T25172986
			Job Reference (optional)	
		Half Hip Girder 2	Half Hip Girder 2 1	Half Hip Girder 2 1 Job Reference (optional)

Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:10 2021 Page ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-Hi39OOK2Csqth3OroTUTw_yx8V7FuAfF2zNX5cyjwE7

NOTES-

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 130 lb down and 92 lb up at 7-0-0, 111 lb down and 92 lb up at 9-0-12, 111 lb down and 92 lb up at 11-0-12, 111 lb down and 92 lb up at 13-0-12, 111 lb down and 92 lb up at 15-0-12, 111 lb down and 92 lb up at 17-0-12, 111 lb down and 87 lb up at 19-0-12, 111 lb down and 92 lb up at 21-0-12, 111 lb down and 92 lb up at 21-0-12, 111 lb down and 92 lb up at 25-0-12, and 111 lb down and 92 lb up at 27-0-12, and 111 lb down and 92 lb up at 29-0-12 on top chord, and 339 lb down and 148 lb up at 7-0-0, 86 lb down and 23 lb up at 9-0-12, 86 lb down and 23 lb up at 11-0-12, 86 lb down and 23 lb up at 13-0-12, 86 lb down and 23 lb up at 15-0-12, 86 lb down and 23 lb up at 17-0-12, 86 lb down and 23 lb up at 19-0-12, 86 lb down and 23 lb up at 21-0-12, 86 lb down and 23 lb up at 23-0-12, 86 lb down and 23 lb up at 25-0-12, and 86 lb down and 23 lb up at 27-0-12, and 86 lb down and 23 lb up at 29-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-10=-54, 11-19=-20

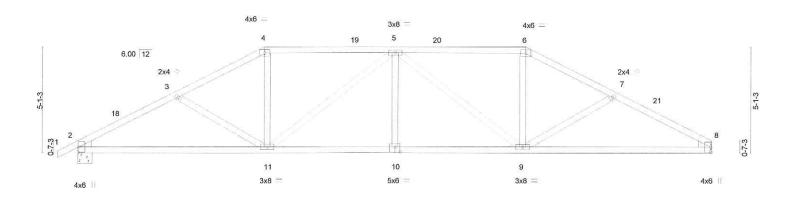
Concentrated Loads (lb)

30=-111(B) 31=-68(B) 32=-68(B) 33=-68(B) 34=-68(B) 35=-68(B) 35=-68(B) 37=-68(B) 38=-68(B) 38=-68(B) 39=-68(B) 39=-68(B) 30=-68(B) 30=-6



Job Truss Type Qty STEVE SMITH - NEWTON Truss T25172987 2918720 T02 Hip 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:11 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-ludYckKhz9ykIDy1MB?iTBUALvXJdh OGd64d3yjwE6 25-10-4 -1-0-0 1-0-0 4-9-12 9-0-0 4-2-4 15-4-0 21-8-0 30-8-0 6-4-0 4-9-12 6-4-0 4-2-4 4-9-12

Scale = 1:53.2



-		9-0-0	1919	15-4-0 21-8-0			10	30-8-0				
1		9-0-0		6	4-0		6-4-0					
Plate Offse	ets (X,Y)	[10:0-3-0,0-3-0]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.13	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.25	9-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix	c-MS						Weight: 155 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

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

WEDGE

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

REACTIONS.

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

Max Horz 2=82(LC 16)

Max Uplift 2=-266(LC 12), 8=-244(LC 13)

Max Grav 2=1190(LC 1), 8=1134(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1955/439, 3-4=-1753/379, 4-5=-1538/371, 5-6=-1541/372, 6-7=-1756/382,

7-8=-1962/442

BOT CHORD 2-11=-403/1689, 10-11=-343/1862, 9-10=-343/1862, 8-9=-339/1697

4-11=-71/501, 5-11=-499/164, 5-9=-497/163, 6-9=-71/502 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) -1-0-0 to 2-0-13, Interior(1) 2-0-13 to 9-0-0, Exterior(2R) 9-0-0 to 13-4-1, Interior(1) 13-4-1 to 21-8-0, Exterior(2R) 21-8-0 to 26-0-1, Interior(1) 26-0-1 to 30-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=266, 8=244.



Structural wood sheathing directly applied or 3-10-9 oc purlins.

Rigid ceiling directly applied or 9-3-0 oc bracing.

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

August 27,2021

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

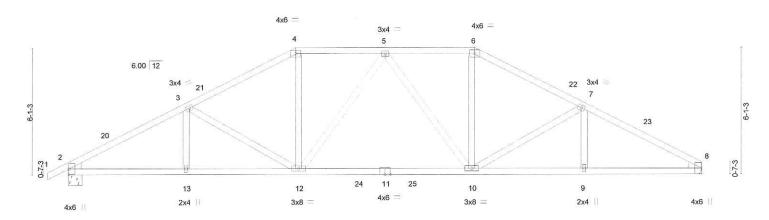
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6904 Parke East Blvd

Job Truss Truss Type Qty STEVE SMITH - NEWTON T25172988 2 2918720 T03 Hip Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:12 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-E4Bwp4LJkT4bwNXDwuXx0P1LhlsPMD1XVHseAVyjwE5 1-0-0 11-0-0 15-4-0 19-8-0 24-11-9 30-8-0 5-8-7 5-3-9 4-4-0

Scale = 1:53.2



(-	5-8-7 5-8-7	11-0-0 5-3-9		19-8-0 8-8-0			-11-9 -3-9	30-8-0 5-8-7	-
LOADING TCLL TCDL	(psf) 20.0 7.0	SPACING- Plate Grip Do Lumber DOL	1.25	CSI. TC 0.41 BC 0.81	DEFL. Vert(LL) Vert(CT)	in (loc) -0.23 10-12 -0.40 10-12	l/defl >999 >914	L/d 240 180	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0 * 10.0	Rep Stress II Code FBC20		WB 0.27 Matrix-MS	Horz(CT)	0.09 8	n/a	n/a	Weight: 162 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

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

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

Max Horz 2=97(LC 16)

Max Uplift 2=-263(LC 12), 8=-242(LC 13) Max Grav 2=1275(LC 2), 8=1230(LC 2)

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

2-3=-2113/416, 3-4=-1781/371, 4-5=-1558/364, 5-6=-1559/362, 6-7=-1782/372, TOP CHORD

7-8=-2119/420

BOT CHORD 2-13=-393/1836, 12-13=-393/1836, 10-12=-238/1628, 9-10=-315/1842, 8-9=-315/1842

WEBS 3-12=-354/177, 4-12=-78/567, 5-12=-257/114, 5-10=-256/113, 6-10=-77/568,

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) -1-0-0 to 2-0-13, Interior(1) 2-0-13 to 11-0-0, Exterior(2R) 11-0-0 to 15-4-0, Interior(1) 15-4-0 to 19-8-0, Exterior(2R) 19-8-0 to 24-0-1, Interior(1) 24-0-1 to 30-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=263, 8=242.



Structural wood sheathing directly applied or 3-8-12 oc purlins.

Rigid ceiling directly applied or 9-4-12 oc bracing.

6904 Parke East Blvd. Tampa FL 33610

August 27,2021

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

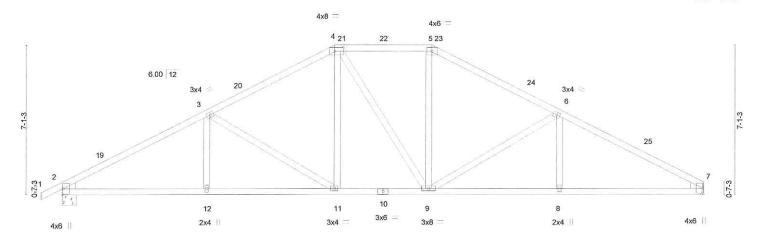
A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-747 Rev. 519/2020 BEFORE USE.

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



Job Truss Type Qty STEVE SMITH - NEWTON Truss Ply T25172989 2918720 T04 Hip 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:13 2021 Page 1 Builders FirstSource (Lake City, FL), Lake City, FL - 32055, ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-iHII0PMxVnDSYW6QUc2AYcaWtiF05ddhkxbBixyjwE4 1-0-0 6-10-10 13-0-0 17-8-0 23-9-6 30-8-0 4-8-0 6-10-10 6-1-6 6-1-6 6-10-10

Scale = 1:52.6



		2.000		13-0-0		17-8-0	23-9-6				30-8-0	
		6-10-10	6-1-6			4-8-0			6-1-6		6-10-10	
Plate Offse	ets (X,Y)	[4:0-5-4,0-2-0]				1					,	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.10 1	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.21 1	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.08	7	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix	k-MS						Weight: 161 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS WEDGE

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

REACTIONS.

(size) 2=0-8-0, 7=Mechanical

Max Horz 2=112(LC 16) Max Uplift 2=-260(LC 12), 7=-239(LC 13) Max Grav 2=1190(LC 1), 7=1134(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1946/402, 3-4=-1489/362, 4-5=-1267/358, 5-6=-1491/363, 6-7=-1952/404

2-12=-384/1670, 11-12=-384/1670, 9-11=-200/1267, 8-9=-300/1676, 7-8=-300/1676 BOT CHORD

3-11=-493/217, 4-11=-78/388, 5-9=-69/389, 6-9=-499/220 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 and C-C Exterior(2E) -1-0-0 to 2-0-13, Interior(1) 2-0-13 to 13-0-0, Exterior(2R) 13-0-0 to 17-4-1, Interior(1) 17-4-1 to 17-8-0, Exterior(2R) 17-8-0 to 22-0-1, Interior(1) 22-0-1 to 30-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=260, 7=239.



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

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

August 27,2021

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



Job Truss Type Qty Ply STEVE SMITH - NEWTON Truss T25172990 2918720 T05 Hip 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:14 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:PCDxLFEFgc?8hVLoJI8fL1zZ5Cf-ATIgEINZG4LJ9ghc1JZP5q6f46b1q8vqzbLkEOyjwE3 30-8-0 1-0-0 14-11-15 7-3-4 15-8-1 22-11-5 0-8-1 7-3-4 Scale = 1:56.2 4x6 = 4x6 -6.00 12 5 20 5x6 5x6 6 22 10 9 8 4x6 2x4 5x8 -2x4 4x6 3x4 30-8-0 14-11-15 7-8-11 15-8-1 [3:0-3-0,0-3-4], [6:0-3-0,0-3-4], [10:0-4-0,0-3-0] Plate Offsets (X,Y)--SPACING-CSI. DEFL /defl L/d **PLATES** GRIP LOADING (psf) (loc) 20.0 Plate Grip DOL 1.25 TC 0.54 Vert(LL) -0.10 10-11 >999 240 MT20 244/190 TCLL TCDL Lumber DOL 1.25 BC 0.61 Vert(CT) -0.22 10-11 >999 180 7.0 0.0 Rep Stress Incr YES WB 0.24 Horz(CT) 0.07 n/a BCLL n/a Weight: 158 lb FT = 20%Code FBC2020/TPI2014 Matrix-MS BCDL 10.0 BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins.

BOT CHORD

WFBS

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

WEBS WEDGE

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

2x4 SP No.3

REACTIONS.

(size) 2=0-8-0, 7=Mechanical

Max Horz 2=126(LC 12) Max Uplift 2=-257(LC 12), 7=-235(LC 13) Max Grav 2=1190(LC 1), 7=1134(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown 2-3=-1927/390, 3-4=-1362/327, 4-5=-1140/329, 5-6=-1364/330, 6-7=-1932/393 TOP CHORD

2-11=-381/1648, 10-11=-382/1647, 9-10=-150/1140, 8-9=-272/1652, 7-8=-272/1653 BOT CHORD 3-11=0/289, 3-10=-621/266, 4-10=-127/433, 5-9=-127/433, 6-9=-626/268, 6-8=0/289 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 and C-C Exterior(2E) -1-0-0 to 2-0-13, Interior(1) 2-0-13 to 14-11-15, Exterior(2E) 14-11-15 to 15-8-1, Exterior(2R) 15-8-1 to 20-0-1, Interior(1) 20-0-1 to 30-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=257, 7=235.



Rigid ceiling directly applied or 9-4-14 oc bracing.

1 Row at midpt

3-10, 6-9

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

Design valid for use only with MiTek® connectors. This AND INCLUDED MITER KEFERCHICE PAGE MIL-1473 FeV. 519/20/0 BEFORE USE.

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



STEVE SMITH - NEWTON Job Qty Ply Truss Truss Type T25172991 2 2918720 T06 Common Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:15 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8tL1zZ5Cf-efs2R5NB1OTAnqGob14ed1foFWvMZaa_BF4ImqyjwE2 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 22-11-15 7-7-15 30-8-0 1-0-0 7-7-15 7-8-1 Scale = 1:53.7 4x6 = 6.00 12 20 3x6 3x6 6 4x4 3 9 10 11 4x6 2x4 5x8 2x4 4x6 22-11-15 30-8-0 7-7-15 7-8-1 Plate Offsets (X,Y)--[3:0-0-0,0-0-0], [10:0-4-0,0-3-0] SPACING-CSI. DEFL. (loc) L/d **PLATES** LOADING (psf) 2-0-0 in I/defl -0.10 10-11 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.64 Vert(LL) >999 240 MT20 ВС TCDL Lumber DOL 1.25 0.66 Vert(CT) -0.23 10-11 >999 180 7.0 WB Rep Stress Incr YES 0.28 Horz(CT) 0.08 n/a BCLL 0.0 n/a Weight: 148 lb FT = 20% BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.3 **WEBS** WEDGE

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

REACTIONS.

(size) 2=0-8-0, 8=Mechanical Max Horz 2=129(LC 12)

Max Uplift 2=-256(LC 12), 8=-235(LC 13) Max Grav 2=1190(LC 1), 8=1134(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-1932/391, 3-5=-1356/335, 5-7=-1357/337, 7-8=-1937/395 2-11=-386/1654, 10-11=-386/1654, 9-10=-281/1660, 8-9=-281/1660 **BOT CHORD** 5-10=-126/739, 7-10=-639/274, 7-9=0/289, 3-10=-633/272, 3-11=0/288 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 and C-C Exterior(2E) -1-0-0 to 2-0-13, Interior(1) 2-0-13 to 15-4-0, Exterior(2R) 15-4-0 to 18-4-13, Interior(1) 18-4-13 to 30-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=256, 8=235,



Structural wood sheathing directly applied or 3-9-1 oc purlins.

7-10, 3-10

Rigid ceiling directly applied or 9-4-10 oc bracing.

1 Row at midpt

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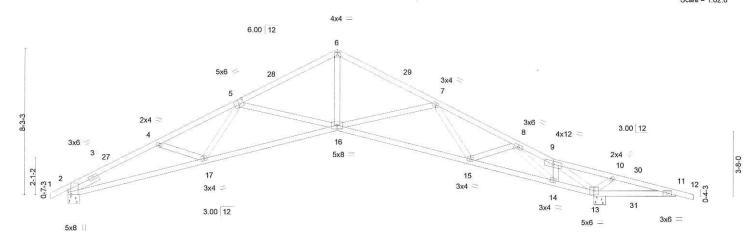
August 27,2021

neters 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 knot included with the connectors are seen to be considered and the connectors of the design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/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 STEVE SMITH - NEWTON Truss Truss Type Qty T25172992 2918720 T07 Roof Special 10 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:16 2021 Page 1 -1-0-0 1-0-0 20-11-3 5-7-3 4-6-12 5-7-3 4-6-11 2-2-3 3-3-15 3-8-0 1-0-0

Scale = 1:62.8



12		7-8-13		15-4-0		22-11-2			27-8-1		30-0-0 30-8-0	34-8-0
7-8-13		7-7-3		7-7-2			4-8-15		2-3-15 0-8-0	4-0-0		
Plate Offse	ets (X,Y)	[2:0-3-4,Edge], [5:0-3-0,0)-3-0]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in ((loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.28 16	3-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.58 16	3-17	>619	180	2202233640	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.33	13	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS						Weight: 170) lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

1-5: 2x4 SP M 31

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

SLIDER Left 2x4 SP No.3 1-11-8

REACTIONS.

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

Max Horz 2=123(LC 16)

Max Uplift 2=-252(LC 12), 13=-350(LC 13) Max Grav 2=1141(LC 1), 13=1532(LC 1)

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

2-4=-2676/624, 4-5=-2662/588, 5-6=-2087/434, 6-7=-2082/423, 7-8=-2431/391, TOP CHORD 8-9=-1248/235, 9-10=-838/882, 10-11=-710/648

2-17=-607/2339, 16-17=-529/2443, 15-16=-307/2245, 14-15=-276/1923, 13-14=-174/1242,

BOT CHORD 11-13=-597/703

5-16=-615/292, 6-16=-252/1524, 7-16=-431/249, 8-15=-145/306, 8-14=-1192/619,

9-14=-302/684, 9-13=-2447/602, 10-13=-320/219

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) -1-0-0 to 2-5-10, Interior(1) 2-5-10 to 15-4-0, Exterior(2R) 15-4-0 to 18-9-10, Interior(1) 18-9-10 to 35-8-0 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (ji=lb) 2=252, 13=350.



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

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

Philip J. O'Regan PE No.58126 6904 Parke East Blvd. Tampa FL 33610

August 27,2021

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 designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracking indidicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job STEVE SMITH - NEWTON Truss Truss Type Qty Ply T25172993 2918720 T08 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:17 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-a2_psnPRZ?ju08QBjS66jSkELJfC1W0HfZZOriyjwE0 -1-0-0 1-0-0 10-4-0 5-2-4 5-1-12 5-1-12 Scale = 1:37.1 4x4 -18 6.00 12 2x4 2x4 5 3 19 0-7-3 8 3x4 = 3x6 3x4 3x8 3x8 6-10-13 6-10-13 6-10-13 [2:0-3-8,Edge], [6:0-3-8,Edge] Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP in (loc) TCLL 20.0 Plate Grip DOL -0.06 7-9 244/190 1.25 TC 0.28 Vert(LL) >999 240 MT20 TCDL 1.25 ВС 0.45 7.0 Lumber DOL Vert(CT) -0.13 7-9 >999 180 BCLL 0.0 WB 0.16 Rep Stress Incr YES Horz(CT) 0.03 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 FT = 20% Matrix-MS Weight: 97 lb BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3 WEDGE

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

REACTIONS.

(size) 2=0-8-0, 6=0-8-0

Max Horz 2=92(LC 12)

Max Uplift 2=-179(LC 12), 6=-158(LC 13)

Max Grav 2=820(LC 1), 6=763(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1238/343, 3-4=-1106/347, 4-5=-1110/354, 5-6=-1242/349 BOT CHORD 2-9=-260/1057, 7-9=-122/725, 6-7=-256/1063

4-7=-122/414, 5-7=-257/168, 4-9=-120/407, 3-9=-253/167 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 and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-4-0, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 20-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=179, 6=158.



Structural wood sheathing directly applied or 5-1-13 oc purlins.

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

August 27,2021

rameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent ucliapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI 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 STEVE SMITH - NEWTON Job Truss Qty T25172994 2918720 T08G Common Supported Gable Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:18 2021 Page 1 Lake City, FL - 32055, Builders FirstSource (Lake City,FL), ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-2EYB47Q4KJrlel?NG9dLFgHTij5nm?sQuDJyN9yjwE? 20-8-0 1-0-0 10-4-0 10-4-0

Scale = 1:38.0 4x4 = 6 6.00 12 9 10 24 23 3 12 3x8 3x8 22 21 20 19 18 17 16 15 14 13

20-8-0 20-8-0 [2:0-3-8,Edge], [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [11:0-0-0,0-0-0], [12:0-3-8,Edge] Plate Offsets (X,Y)--SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI DEFL (loc) I/defl L/d TCLL 20.0 Plate Grip DOL TC 0.05 Vert(LL) -0.00 120 MT20 244/190 1.25 n/r TCDL 1.25 BC 0.04 0.00 120 7.0 Lumber DOL Vert(CT) n/r 0.0 WB 0.06 Horz(CT) 0.00 BCLL Rep Stress Incr YES 12 n/a BCDL Code FBC2020/TPI2014 Matrix-S Weight: 109 lb FT = 20% 10.0

BRACING-

TOP CHORD

BOT CHORD

3x6 =

LUMBER-

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

BOT CHORD OTHERS 2x4 SP No.3

WEDGE

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

REACTIONS.

All bearings 20-8-0.

(lb) - Max Horz 2=87(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 16, 15, 14, 13

Max Grav All reactions 250 lb or less at joint(s) 2, 17, 19, 20, 21, 22, 16, 15, 14, 13, 12

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

NOTES-

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

- 2) Wind: ASCE 7-16; 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 Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 10-4-0, Corner(3R) 10-4-0 to 13-4-0, Exterior(2N) 13-4-0 to 20-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 21, 22, 16, 15, 14, 13.



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

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

August 27,2021

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

MiTek 6904 Parke East Blvd. Tampa, FL 36610

Job Truss Truss Type STEVE SMITH - NEWTON Qty Ply T25172995 2918720 T09 Common Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055 8.430 s Aug 16 2021 MITek Industries, inc. Tria rog 20 16.11 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-?dgxUpRKrw5Stb8mOagpK5MgZXgzEk3jLXo3R1yjwDz 15.3-13 20-8-0 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:20 2021 Page 1 -1-0-0 1-0-0 10-4-0 4-11-12 4-11-12 5-4-3 Scale = 1:37.1 4x6 || 6.00 12 3x6 3x6 5 3 0-7-3 16 17 18 19 20 21 9 8 7 3x10 10x12 = 6x8 3x10 || 6x8 5-4-4 10-4-0 20-8-0 4-11-12 [2:Edge,0-4-1], [6:Edge,0-4-1], [8:0-6-0,0-6-0] Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** in (loc) I/defl GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.61 Vert(LL) -0.14 8-9 >999 240 244/190 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.51 Vert(CT) -0.27>933 180 8-9 BCLL 0.0 Rep Stress Incr WB 0.71 Horz(CT) 0.04 6 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 260 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

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

Max Horz 2=92(LC 8)

Max Uplift 6=-1440(LC 9), 2=-1199(LC 8) Max Grav 6=6159(LC 1), 2=4549(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-9161/2430, 3-4=-7442/1891, 4-5=-7455/1891, 5-6=-10284/2435 BOT CHORD 2-9=-2188/8128, 8-9=-2188/8128, 7-8=-2120/9148, 6-7=-2120/9148

WEBS 4-8=-1582/6323, 5-8=-2928/675, 5-7=-449/2451, 3-8=-1755/666, 3-9=-456/1412

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.
 - Bottom chords connected as follows: 2x8 2 rows staggered at 0-5-0 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; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=1440, 2=1199.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2442 lb down and 851 lb up at 7-0-12, 1114 lb down and 264 lb up at 9-0-12, 1210 lb down and 262 lb up at 11-0-12, 1114 lb down and 259 lb up at 13-0-12, 1114 lb down and 255 lb up at 15-0-12, and 1114 lb down and 255 lb up at 17-0-12, and 1114 lb down and 255 lb up at 19-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



Structural wood sheathing directly applied or 3-5-6 oc purlins.

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

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

August 27,2021

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



Job Truss		Truss Type	Qty	Ply	STEVE SMITH - NEWTON	Description of the Control of the Co
2918720	T09	Common Girder	1			T25172995
			1022	4	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:20 2021 Page 2 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-?dgxUpRKrw5Stb8mOagpK5MgZXgzEk3jLXo3R1yjwDz

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-6=-54, 10-13=-20

Concentrated Loads (lb)

Vert: 7=-1114(B) 16=-2442(B) 17=-1114(B) 18=-1114(B) 19=-1114(B) 20=-1114(B) 21=-1114(B)

STEVE SMITH - NEWTON Qtv Job Truss Truss Type Ply T25172996 2918720 T10 Common Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:20 2021 Page 1 Lake City, FL - 32055, Builders FirstSource (Lake City,FL), ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-?dgxUpRKrw5Stb8mOagpK5MenXeUEt7jLXo3R1yjwDz 16-0-0 1-0-0 8-0-0 8-0-0 Scale = 1:30.3 4x6 3 6.00 12 14 15 12 0-7-3 5 2x4 | 3x8 3x8 16-0-0 8-0-0 8-0-0 Plate Offsets (X,Y)--[2:0-3-8,Edge], [4:0-3-8,Edge] **PLATES** GRIP LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defl L/d 2-0-0 -0.13 5-11 >999 240 MT20 244/190 20.0 Plate Grip DOL 1.25 TC 0.72 Vert(LL) TCLL ВС 180 Lumber DOL 1.25 0.60 Vert(CT) -0.21 5-11 >928 TCDL 7.0 WB 0.13 0.0 Rep Stress Incr YES Horz(CT) 0.03 n/a n/a BCLL Matrix-MS Weight: 60 lb FT = 20% BCDL 10.0 Code FBC2020/TPI2014 BRACING-TOP CHORD Structural wood sheathing directly applied or 4-10-10 oc purlins.

BOT CHORD

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

LUMBER-

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

WEBS WEDGE

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

2x4 SP No.3

REACTIONS.

(size) 2=0-8-0, 4=0-8-0 Max Horz 2=74(LC 16)

Max Uplift 2=-144(LC 12), 4=-122(LC 13)

Max Grav 2=648(LC 1), 4=590(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-799/275, 3-4=-798/279

BOT CHORD 2-5=-154/636, 4-5=-154/636 WEBS 3-5=-5/350

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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 16-0-0 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.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=144, 4=122,



August 27,2021

A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valled for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracking indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracking is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracking of trusses and truss systems, see ANSI/P11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type Qty STEVE SMITH - NEWTON Job Truss Ply T25172997 2918720 T10G Common Supported Gable Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:21 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-TpEKi9SycEDJVljyyHB2tlv_yx6czMpsaBXczUyjwDy -1-0-0 1-0-0 16-0-0 8-0-0 Scale = 1:28 8 4x4 = 6 5 6.00 12 18 9 10 0-7-3 17 16 15 14 13 12 11 3x8 3x8 16-0-0 [2:0-3-8,Edge], [10:0-3-8,Edge] Plate Offsets (X,Y)--SPACING-DEFL. L/d **PLATES** GRIP LOADING (psf) CSI. in I/def TCLL 20.0 Plate Grip DOL 1.25 TC 0.05 Vert(LL) -0.00 120 MT20 244/190 n/r TCDL Lumber DOL 1.25 вс 0.03 Vert(CT) -0.00 120 7.0 n/r BCLL 0.0 Rep Stress Incr WB 0.04 Horz(CT) 0.00 10 YES n/a BCDL Code FBC2020/TPI2014 Matrix-S Weight: 78 lb FT = 20% 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.3

WEDGE

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

REACTIONS.

All bearings 16-0-0.

(lb) - Max Horz 2=70(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 15, 16, 17, 13, 12, 11

Max Grav All reactions 250 lb or less at joint(s) 2, 14, 15, 16, 17, 13, 12, 11, 10

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 Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 8-0-0, Corner(3R) 8-0-0 to 11-0-0, Exterior(2N) 11-0-0 to 16-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15, 16, 17, 13, 12, 11.



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

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

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

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



August 27,2021

Truss Type Qty Plv STEVE SMITH - NEWTON .lob Truss T25172998 Common Girder 2918720 T11 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:23 2021 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-PCL47qUC8rT1k3tL3iDWyj_GgkkJR2n91V0j2MyjwDw -1-0-0 1-0-0 8-0-0 11-9-12 16-0-0 3-9-12 Scale = 1:30.3 4x6 6.00 12 4x4 5 0-7-3 16 17 18 19 7 8 9 3x8 || 8x10 = 3x8 || 4x8 = 4x8 = 16-0-0 8-0-0 11-9-12 Plate Offsets (X.Y)--[2:Edge,0-2-1], [6:Edge,0-2-1], [8:0-5-0,0-5-12] DEFL. I/defI L/d **PLATES** GRIP SPACING-CSI. (loc) LOADING (psf) 2-0-0 244/190 TC 0.29 Vert(LL) -0.07 7-8 >999 240 MT20 TCLL 20.0 Plate Grip DOL 1.25 вс 0.27 Vert(CT) -0.14 >999 180 TCDL Lumber DOL 1.25 7-8 7.0 WB 0.91 Horz(CT) 0.02 6 BCLL 0.0 Rep Stress Incr n/a n/a FT = 20%Code FBC2020/TPI2014 Matrix-MS Weight: 201 lb BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3

REACTIONS.

(size) 6=0-8-0, 2=0-8-0

Max Horz 2=74(LC 8) Max Uplift 6=-1235(LC 9), 2=-852(LC 8) Max Grav 6=5047(LC 1), 2=3089(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-5843/1619, 3-4=-5629/1556, 4-5=-5629/1555, 5-6=-7517/1901 2-9=-1457/5175, 8-9=-1457/5175, 7-8=-1653/6681, 6-7=-1653/6681 TOP CHORD

BOT CHORD WERS

4-8=-1304/4764, 5-8=-1958/445, 5-7=-292/1657

NOTES-

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

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

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 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.

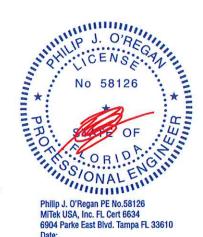
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2442 lb down and 851 lb up at 7-0-12, 1114 lb down and 264 lb up at 9-0-12, 1210 lb down and 262 lb up at 11-0-12, and 1114 lb down and 259 lb up at 13-0-12, and 1114 lb down and 254 lb up at 15-0-12 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



Structural wood sheathing directly applied or 4-5-0 oc purlins.

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

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

August 27,2021

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



Truss Truss Type Qty Ply STEVE SMITH - NEWTON Job T25172998 Common Girder 2918720 T11 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:23 2021 Page 2

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

ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-PCL47qUC8rT1k3tL3iDWyj_GgkkJR2n91V0j2MyjwDw

LOAD CASE(S) Standard Uniform Loads (plf)

Vert: 1-4=-54, 4-6=-54, 10-13=-20

Concentrated Loads (lb)

Vert: 12=-1114(F) 16=-2442(F) 17=-1114(F) 18=-1114(F) 19=-1114(F)

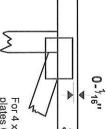


Symbols

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 4×2 orientation, locate plates $0^{-\frac{1}{160}}$ from outside edge of truss.

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G

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

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

PLATE SIZE



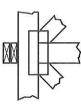
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.

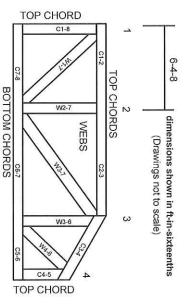
DSB-89: Design Standard for Bracing.

BCSI: Building Component Safety Information,

BCSI: Guide to Good Bractice for Leading

DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Informati
Guide to Good Practice for Handling,
Installing & Bracing of Metal Plate
Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

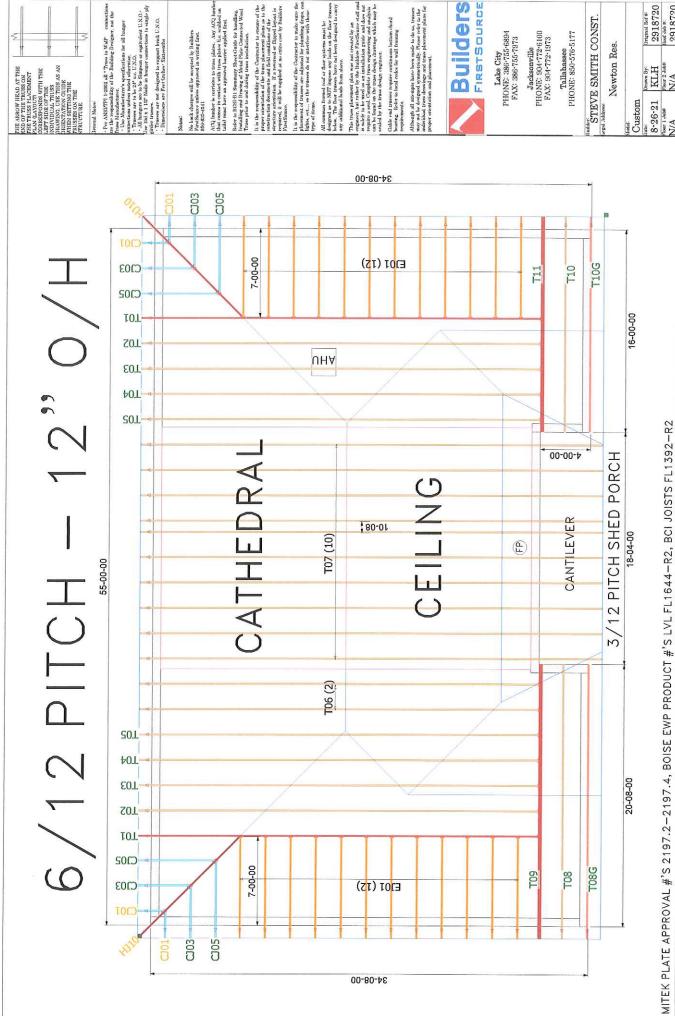
Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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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.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21.The design does not take into account any dynamic or other loads other than those expressly stated.



2918720 2918720 Itour Job #: 2918720 KLH KLH Floor 2 John N/A 8-26-21 Floor 1 John