

RE: P19-03013 - SAMMY MCNEILL

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Project Customer:

Project Name:

Lot/Block:

Subdivision:

Model:

Address: City:

State:

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

Design Code: IRC2018/TPI2014

Wind Code: N/A

Wind Speed: 130 mph

Design Program: MiTek 20/20 8.2 Design Method: User defined

Roof Load: 40.0 psf

Floor Load: N/A psf

Mean Roof Height (feet): 12

Exposure Category: B

No. 1234567891112314567189021	Seal# E12842493 E12842494 E12842496 E12842498 E12842498 E12842500 E12842500 E12842504 E12842504 E12842506 E12842506 E12842507 E12842510 E12842510 E12842510 E12842511 E12842511	T01GE T02 T02GE T03 T04 T05 T06 T07 T08 T09	3/26/19
20	E12842512	V08	3/26/19
21	E12842513	V09	3/26/19
22	E12842514	V10	3/26/19
23	E12842515	V11	3/26/19

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters

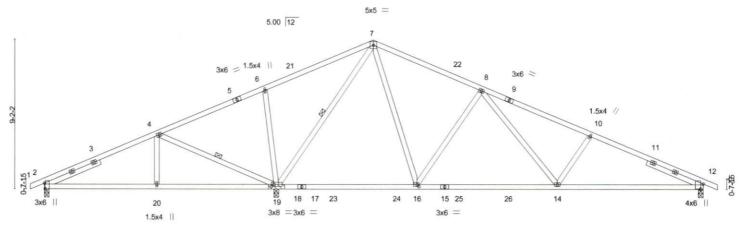
My license renewal date for the state of North Carolina is December 31, 2019.

IMPORTANT NOTE: The seal on these truss component designs is a cartinate that the engineer named is licensed in the trust component designs. 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.

March 26,2019

Job		Truss	Truss Type		Qty	Ply		SAMMY MCNEILL		
P19-03013		T01	Common		14		1			E1284249
								Job Reference (optional)		
Longleaf Truss (Company,	West End, NC - 27376,				8.240 s	Dec	6 2018 MiTek Industries, Inc. Mc	on Mar 25 15:29:34 201	19 Page 1
				ID:aOT2I	DsuQeA	7g4EYk	xuH	tfWzXPFsn84164J2eL8ksGhtfF0	GJyU70qP8Up?MscHn	198zXLvF
-0-10-8	7-0-1	13-8-11	20-5-4	1	27-1-1	3		33-10-7	40-10-8	41-9-0
0-10-8	7-0-1	6-8-9	6-8-9		6-8-9			6-8-9	7-0-1	0-10-8

Scale = 1:68.5



7-0-1		14-5-4		23-1-13		31-1				40-10-8	
7-0-1	7-5-3			8-8-9	1.	8-8	-9			9-0-1	- 3
Plate Offsets (X,Y) [2:0	-4-2,Edge], [12:0-3-10,0-1-13]	, [16:0-1-8,0-1-	8], [19:0-2-0	,0-1-8]							
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.49 0.68 0.91	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (I -0.17 16- -0.30 12- 0.04	-19	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 BCDL 10.0	Code IRC2018/TF	PI2014	Matrix	r-S						Weight: 223 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1

WEBS 2x4 SP No.3

SLIDER

Left 2x4 SP No.3 3-8-13, Right 2x4 SP No.3 3-8-14

BRACING-TOP CHORD

BOT CHORD WEBS

Sheathed or 4-7-0 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

4-19, 7-19

REACTIONS.

(lb/size) 2=313/0-3-8, 19=1569/(0-3-8 + bearing block) (req. 0-3-9), 12=773/0-3-8

Max Horz 2=-158(LC 10)

Max Uplift 2=-34(LC 12), 12=-28(LC 12)

Max Grav 2=477(LC 30), 19=2272(LC 24), 12=1137(LC 25)

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

TOP CHORD 2-4=-506/71, 4-6=0/634, 6-7=0/656, 7-8=-771/110, 8-10=-1721/69, 10-12=-1904/55

BOT CHORD 2-20=-64/400, 19-20=-64/400, 16-19=0/326, 14-16=0/1028, 12-14=0/1670

WEBS 4-20=0/300, 4-19=-867/34, 6-19=-419/109, 7-19=-1567/0, 7-16=0/1091, 8-16=-796/92,

8-14=0/772, 10-14=-331/103

NOTES-

- 1) 2x4 SP No.1 bearing block 12" long at jt. 19 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. User Defined Bearing crushing capacity= 425psi.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=41ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- All plates are 3x4 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 2 and 28 lb uplift at joint 12.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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



Job Truss Truss Type Qty SAMMY MCNEILL F12842494 P19-03013 T01GF Common Supported Gable Job Reference (optional) 8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Mar 25 15:29:37 2019 Page 1 West End, NC - 27376. Longleaf Truss Company, ID:aOT2DsuQeA7g4EYkxuHtfWzXPFs-OLqDg86CLZjjbJ?FYnpzxa6lC1b2hL4oYaVQmSzXLvC 0-10-8 40-10-8 41-9-0 20-5-4

Scale = 1:69.6

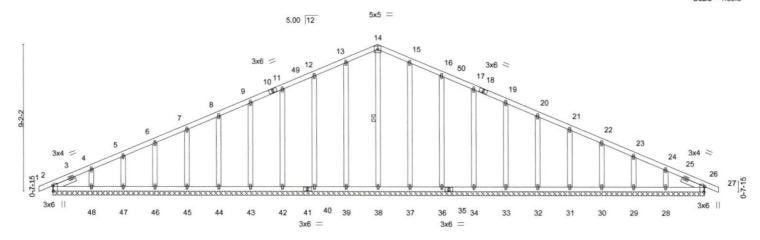


Plate Offsets (X,Y) [2:0-4-2	2,Edge], [26:0-4-2,Edge]	40-10-0	,						
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.05 BC 0.03 WB 0.18	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 0.00 0.00	(loc) 26 26 26	I/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S						Weight: 266 lb	FT = 20%

40-10-8

LUMBER-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1

OTHERS 2x4 SP No.3

SLIDER Left 2x4 SP No.3 1-6-6, Right 2x4 SP No.3 1-6-6 BRACING-

TOP CHORD

Sheathed or 6-0-0 oc purlins.

BOT CHORD WERS

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

1 Row at midpt

14-38

REACTIONS. All bearings 40-10-8.

(lb) - Max Horz 2=-158(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 39, 40, 42, 43, 44, 45, 46, 47, 48, 37, 36, 34, 33, 32, 31,

30, 29, 28

Max Grav All reactions 250 lb or less at joint(s) 2, 38, 39, 40, 42, 43, 44, 45, 46, 47, 48, 37, 36, 34, 33, 32, 31, 30, 29, 28, 26

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=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=41ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

5) Unbalanced snow loads have been considered for this design.

- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 1.5x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.

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

- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * 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.

12) All bearings are assumed to be User Defined crushing capacity of 425 psi.

- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 39, 40, 42, 43, 44, 45, 46, 47, 48, 37, 36, 34, 33, 32, 31, 30, 29, 28.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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eters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MTTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss eveb and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss eveb 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 trussee and truss systems, see

Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty SAMMY MCNEILL E12842495 P19-03013 T02 Roof Special Supported Gable Job Reference (optional) Longleaf Truss Company, West End, NC - 27376, 8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Mar 25 15:29:38 2019 Page 1 ID:aOT2DsuQeA7g4EYkxuHtfWzXPFs-sYObtT7q5traCTZS6UKCUofuGRx2QqMynEF_lvzXLvB 11-1-0 0-10-8 Scale = 1:26.7 2 5.00 12 3 5 6 3x4 < 13 12 11 10 9 3x4 ||

Plate Offsets	(X,Y) [7:0-2-2,0	-0-9]										
LOADING (p. TCLL (roof) Snow (Pf/Pg) TCDL BCLL	20.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.15 0.05 0.05	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 7 8 7	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code IRC2018/TI	212014	Matri	x-S						Weight: 61 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Sheathed or 6-0-0 oc purlins, except end verticals

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

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 WEBS 2x4 SP No.3

OTHERS 2x4 SP No.3 SLIDER Right 2x4 SP No.3 1-7-5

REACTIONS. All bearings 11-1-0.

(lb) - Max Horz 13=-148(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 13, 12, 11, 10, 9

Max Grav All reactions 250 lb or less at joint(s) 13, 7, 12, 11, 10, 9

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 12, 11, 10, 9.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 26,2019



SAMMY MCNEILL Job Truss Type Qty Ply Truss E12842496 P19-03013 T02GE Common Supported Gable 1 Job Reference (optional) West End NC - 27376 8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Mar 25 15:29:39 2019 Page 1 Longleaf Truss Company ID:aOT2DsuQeA7g4EYkxuHtfWzXPFs-Kkxz5p8SsBzRqd8egCrR0?B5grGe9H150u_XqLzXLvA 6-10-8 -0-10-8 0-10-8 0-10-8 4×4 = 7.00 12 5x5 / 5 5x5 > 3 12 7 0-9-15 10 2.5x6 || 1.5x4 || 1.5x4 || 2.5x6 || 1.5x4 || 6-0-0 Plate Offsets (X,Y)-- [2:0-1-8,0-0-3], [3:0-2-0,0-2-4], [5:0-2-0,0-2-4], [6:0-1-8,0-4-3]

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.05 BC 0.02 WB 0.02	Vert(CT)	in -0.00 -0.00 0.00	(loc) 6 6 6	I/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 33 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Sheathed or 6-0-0 oc purlins.

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

LUMBER-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 6-0-0

(lb) - Max Horz 2=-39(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8 Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

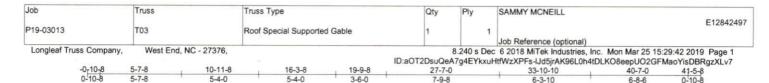


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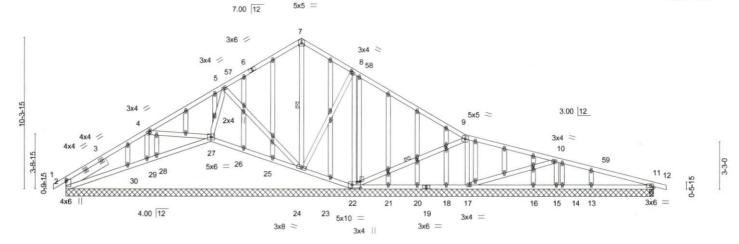
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

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





Scale = 1:76.3



	5-7-8	4-5-0	6-3-0	3-6-0	7-9-8		6-3-10	6-8-6	
Plate Offsets (X,Y)	[2:0-1-14,0-0 ,0-0-12]	0-1], [4:0-1-12,0-1-8],	[8:0-1-12,0-1-8], [22	2:0-7-0,0-2-8], [22:0-	0-8,0-2-4], [45:0-1-	13,0-0-12], [47	:0-1-13,0-0-12	2], [49:0-1-13,0-0-12], [54:0-1-	10
Snow (Pf/Pg) 11.6/15 TCDL 1	0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC 0.53 BC 0.16 WB 0.28	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.01 11-13 -0.02 11-13 0.01 11	l/defl L/ >999 24 >999 18 n/a n/	0 MT20	GRIP 244/190
	0.0	Code IRC2018/TI	A CONTRACTOR OF THE PARTY OF TH	Matrix-S	11012(01)	0.01		Weight: 314 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

27-7-0

33-10-10

Sheathed or 6-0-0 oc purlins.

1 Row at midpt

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

7-24, 9-22

40-7-0

19-9-8

LUMBER-

TOP CHORD 2x4 SP No.1 2x4 SP No.1

BOT CHORD WEBS 2x4 SP No.3

OTHERS 2x4 SP No.3

SLIDER Left 2x6 SP No.1 3-3-12

REACTIONS. All bearings 40-7-0 except (jt=length) 11=0-3-8, 11=0-3-8.

(lb) - Max Horz 2=-182(LC 10)

5-7-8

Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 29, 24, 17, 15, 14, 11

10-0-8

Max Grav All reactions 250 lb or less at joint(s) 29, 25, 26, 28, 30, 23, 21, 20

18, 16, 14, 13, 11 except 2=316(LC 38), 27=432(LC 24), 22=267(LC 25),

16-3-8

24=486(LC 2), 17=489(LC 2), 15=450(LC 2), 11=254(LC 2)

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

TOP CHORD 2-4=-358/115

BOT CHORD 2-30=-70/330, 29-30=-72/303, 28-29=-47/333, 27-28=-70/323

WEBS 9-17=-410/64, 10-15=-424/71

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=41ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.

5) Unbalanced snow loads have been considered for this design.

- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 1.5x4 MT20 unless otherwise indicated

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

- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

11) All bearings are assumed to be User Defined crushing capacity of 425 psi.

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 29, 24, 17, 15, 14, 11,
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

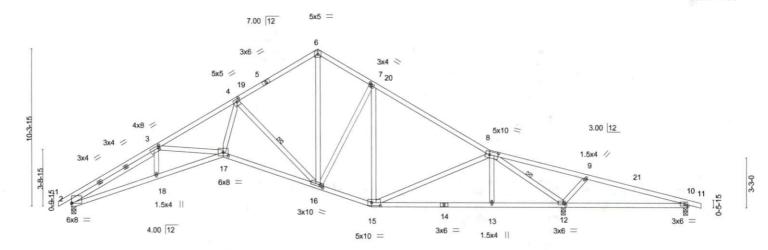
ANSI/TPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	SAMMY MCNEILL
P19-03013	T04	Roof Special	8	1	E12842498
		R			Job Reference (optional)
Longleaf Truss Company	West End NC - 27376		8	240 s Dec	6 2018 MiTek Industries Inc. Mon Mar 25 15:29:44 2019 Page 1

10-11-8 -0-10-8 16-3-8 19-9-8 ID:aOT2DsuQeA7g4EYkxuHtfWzXPFs-hils8XCbhjbkwO1cTlRcj3unDssJqNxq9AilVYzXLv5 33-10-10 40-7-0

Scale = 1:73.0



	0-1-0	10-0-0	10-3-0	1 12	-3-0	21-1-0		1	32-5-4	- 1	40-7-0	1
	5-7-8	4-5-0	6-3-0	3	6-0	7-9-8		1/2	4-10-4		8-1-12	1
Plate Offsets (X,Y)	[2:0-0-0,0-0-4], [3:0-1-0,0-1-12], [4:0-2-4,0-2-0],	[7:0-1-12,0-1	8], [8:0-6	-12,0-2-8], [12:0-1-12	,0-1-8]	[15:0-7	-0,0-2-8]	[16:0-2-6,0-	1-8], [17:0-4-0,0-2-12]	
Snow (Pf/Pg) 11.6/1 TCDL 1 BCLL	20.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 YES	CSI. TC BC	0.70 0.57 0.75	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.18 -0.38 0.24	(loc) 17	I/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 231 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

Sheathed or 3-4-2 oc purlins.

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

1 Row at midpt

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

4-16, 8-12

10.0.0

LUMBER-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 WEBS 2x4 SP No.3

SLIDER

5-7-8

Left 2x4 SP No.3 6-5-13

REACTIONS. (lb/size) 2=995/0-3-8, 12=1611/0-3-8, 10=25/0-3-8

Max Horz 2=-182(LC 10)

Max Uplift 2=-24(LC 12), 10=-71(LC 38)

Max Grav 2=1267(LC 2), 12=2042(LC 2), 10=117(LC 39)

10-0-8

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

TOP CHORD 2-3=-3420/0, 3-4=-3076/0, 4-6=-1290/93, 6-7=-1285/109, 7-8=-1357/76, 8-9=0/1243,

BOT CHORD

2-18=0/2913, 17-18=0/2914, 16-17=0/2282, 15-16=0/1145, 13-15=0/918, 12-13=0/922, 10-12=-831/0

4-17=0/1808, 4-16=-1638/12, 6-16=-57/1020, 7-15=-321/15, 8-12=-2561/7,

9-12=-521/93

9-10=0/928

NOTES-

WEBS

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=41ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.

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) All bearings are assumed to be User Defined crushing capacity of 425 psi.

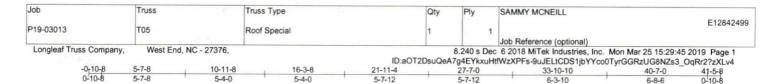
- 9) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 26,2019

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

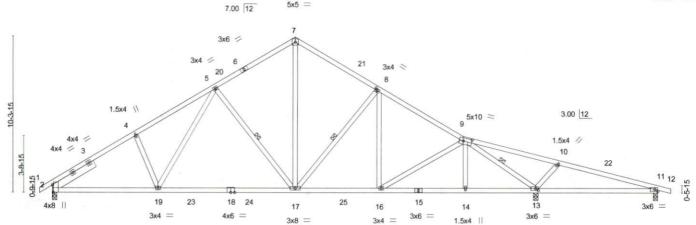






6-8-6

40-7-0



	7-1-6		9-2-2	1	5-7-12	5-7	7-12		4-10-4	- 1	8-1-12	
Plate Offsets (X,Y)	[2:0-5-14,Ed	dge], [8:0-1-12,0-1-8],	9:0-6-12,0-2-8	3], [13:0-2-0,	0-1-8]							
Snow (Pf/Pg) 11.6/ TCDL BCLL	20.0 15.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES	CSI. TC BC WB Matri	0.60 0.70 0.63 k-S	DEFL. Vert(LL) Vert(CT) Horz(CT)		(loc) 17-19 17-19 13	l/defl >999 >864 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 230 lb	GRIP 244/190 FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

21-11-4

27-7-0

32-5-4

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

5-17, 8-17, 9-13

Sheathed or 3-5-2 oc purlins.

6-0-0 oc bracing: 11-13.

1 Row at midpt

LUMBER-

WEBS

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 2x4 SP No.3

SLIDER Left 2x6 SP No.1 3-3-6

REACTIONS. (lb/size) 2=1019/0-3-8, 13=1486/0-3-8, 11=128/0-3-8

7-1-6

Max Horz 2=-182(LC 10)

Max Uplift 2=-21(LC 12), 11=-25(LC 12)

Max Grav 2=1472(LC 24), 13=2098(LC 25), 11=202(LC 39)

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

TOP CHORD 2-4=-2175/28, 4-5=-2026/75, 5-7=-1374/108, 7-8=-1389/107, 8-9=-1661/65, 9-10=-6/812, 10-11=0/550

BOT CHORD 2-19=0/1862, 17-19=0/1550, 16-17=0/1398, 14-16=0/1283, 13-14=0/1289, 11-13=-471/0

WEBS 5-19=0/535, 5-17=-607/91, 7-17=-35/1064, 8-17=-481/75, 9-13=-2516/19,

10-13=-513/98

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=41ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.

16-3-8

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.

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, with BCDL = 10.0psf.

8) All bearings are assumed to be User Defined crushing capacity of 425 psi.

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 26,2019

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with 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 property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

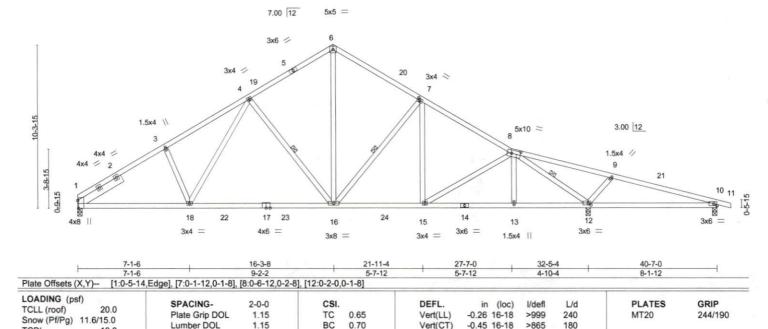


Ply Qty SAMMY MCNEILL Job Truss Truss Type F12842500 Roof Special 1 P19-03013 T06 Job Reference (optional) 8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Mar 25 15:29:47 2019 Page 1 Longleaf Truss Company, West End, NC - 27376 ID:aOT2DsuQeA7g4EYkxuHtfWzXPFs-5HQ_mYET_e_InslA8t_JLhWIH3qr1mZHr8wy6tzXLv2 33-10-10 27-7-0 10-11-8 16-3-8

5-7-12

0-10-8 Scale = 1:70.4

6-3-10



LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1

2x4 SP No.3 WEBS

SLIDER Left 2x6 SP No.1 3-3-6

10.0

0.0

10.0

REACTIONS. (lb/size) 1=981/0-3-8, 12=1486/0-3-8, 10=128/0-3-8

Max Horz 1=-182(LC 10) Max Uplift 10=-25(LC 12)

Max Grav 1=1423(LC 24), 12=2098(LC 25), 10=202(LC 39)

Rep Stress Incr

Code IRC2018/TPI2014

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

TOP CHORD 1-3=-2179/30, 3-4=-2031/77, 4-6=-1375/108, 6-7=-1390/108, 7-8=-1662/66, 8-9=-6/812,

BOT CHORD 1-18=0/1867, 16-18=0/1552, 15-16=0/1400, 13-15=0/1284, 12-13=0/1289, 10-12=-471/0 **WEBS** 4-18=0/540, 4-16=-608/91, 6-16=-35/1065, 7-16=-481/75, 8-12=-2517/20, 9-12=-513/98

NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=41ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.

YES

WB

Matrix-S

0.63

0.07

12

Sheathed or 3-3-7 oc purlins.

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

1 Row at midpt

n/a

n/a

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

4-16, 7-16, 8-12

Horz(CT)

BRACING-

WEBS

TOP CHORD

BOT CHORD

4) Unbalanced snow loads have been considered for this design.

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs
- 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, with BCDL = 10.0psf.

8) All bearings are assumed to be User Defined crushing capacity of 425 psi.

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

ORTH CARO A. GILBER

Weight: 229 lb

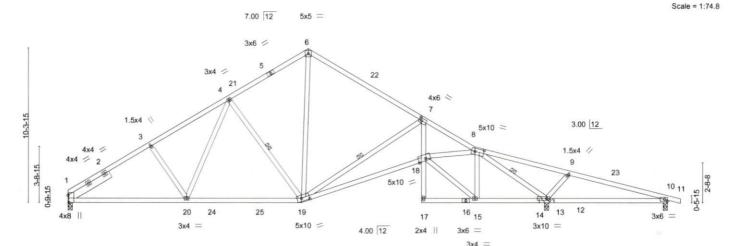
FT = 20%

March 26,2019

neters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss		Truss Type		Qty	Ply	SAMMY MCNEILL		201100-0000-0000
P19-03013	T07		Roof Special		1	1			E1284250
							Job Reference (optional)		
Longleaf Truss Company,	West End, N	C - 27376,				8.240 s De	c 6 2018 MiTek Industries, Inc.	Mon Mar 25 15:29	:48 2019 Page 1
				ID:aOT2Ds	suQeA	7g4EYkxuH	tfWzXPFs-aT_NzuF5ly69P?KNii	VYuv3RcTAFmAV	/Q4ogWfKzXLv1
	5-7-8	10-11-8	16-3-8	23-11-8		27-7-0	33-10-10	40-7-0	41-5-8
	5-7-8	5-4-0	5-4-0	7-8-0		3-7-8	6-3-10	6-8-6	0-10-8



8-0	1-12	15-10-0	23-11-8	4	27-7-0	1	32-5-4	1	40-7-0	1
8-0)-12	7-9-4	8-1-8		3-7-8	1	4-10-4	1	8-1-12	1
Plate Offsets (X,Y) [1:0-5-14,	Edge], [7:0-1-12,0-2-0],	[8:0-7-4,0-2-8], [13:	0-2-8,0-1-8], [18:0-6-0	,0-1-12], [19:0-6	-8,0-2-8	1				
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/Ti	2-0-0 1.15 1.15 YES	CSI. TC 0.80 BC 0.76 WB 0.78 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.25 -0.53 0.19	J. C. CO	l/defl >999 >740 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 232 lb	GRIP 244/190 FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

Sheathed or 3-9-13 oc purlins.

4-4-6 oc bracing: 10-13.

1 Row at midpt

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

4-19, 7-19, 8-13

LUMBER-

TOP CHORD 2x4 SP No.1

BOT CHORD 2x4 SP No.1 *Except* 7-17: 2x4 SP No.2

2x4 SP No.3 WEBS

SLIDER Left 2x6 SP No.1 3-3-6

REACTIONS. (lb/size) 1=917/0-3-8, 13=1809/(0-3-8 + bearing block) (req. 0-3-15), 10=-131/0-3-8

Max Horz 1=-182(LC 10)

Max Uplift 1=-2(LC 12), 10=-223(LC 30)

Max Grav 1=1317(LC 24), 13=2514(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-3=-1956/47, 3-4=-1794/73, 4-6=-1194/117, 6-7=-1212/107, 7-8=-2497/3, 8-9=0/2098,

9-10=0/1793

BOT CHORD 1-20=0/1687, 19-20=0/1396, 18-19=0/2417, 7-18=0/1218, 13-15=0/527, 10-13=-1670/0

4-20=0/512, 4-19=-623/80, 6-19=-21/820, 7-19=-1619/23, 15-18=0/679, 8-18=0/1624,

8-15=-363/14, 8-13=-3112/2, 9-13=-575/100

NOTES-

WEBS

- 1) 2x4 SP No.1 bearing block 12" long at jt. 13 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. User Defined Bearing crushing capacity= 425psi.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=41ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 10=223.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 26,2019

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability of the prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability of the prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing in a property to the property of the p



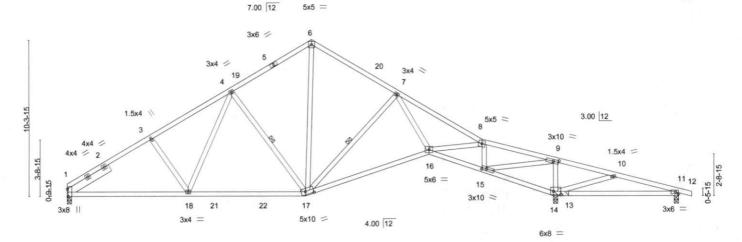


 Impany, bright
 West End, NC - 27376,
 8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Mar 25 15:29:50 2019 Page 1

 ID:aOT2DsuQeA7g4EYkxuHtfWzXPFs-Ws67OaGLHZMteJUlpgVpX8k7XHuEEGZY69cjCzXLv?
 5-7-8
 10-11-8
 16-3-8
 21-11-4
 27-7-0
 32-3-8
 36-2-14
 40-7-0
 41-5-8

 5-7-8
 5-4-0
 5-4-0
 5-7-12
 5-7-12
 4-8-8
 3-11-6
 4-4-2
 0-10-8

Scale = 1:73.6



	8-0-12	15-10-0	24-0-12		21-1-0	-	32-3-8	32-5-4	40-7-0	4
	8-0-12	7-9-4	8-2-12		3-6-4	3.1	4-8-8	0-1-12	8-1-12	10
Plate Offsets (X,Y) [1:	0-5-14,Edge], [9:0-4-4,0-1-8],	[14:0-5-12,0-2-12], [15:0-3-12,0-1-8], [17:0	-6-8,0-2-8]	M. W.	21				- E
LOADING (psf) 20.0 TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/1	2-0-0 1.15 1.15 YES FPI2014	CSI. TC 0.52 BC 0.63 WB 0.70 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.22 -0.46 0.12	5170	l/defl >999 >843 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 226 lb	GRIP 244/190 FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

Sheathed or 3-11-0 oc purlins.

1 Row at midpt

Rigid ceiling directly applied or 4-0-13 oc bracing.

4-17, 7-17

LUMBER-

TOP CHORD 2x4 SP No.1

BOT CHORD 2x4 SP No.1

WEBS 2x4 SP No.3 *Except*

9-15: 2x4 SP No.2

SLIDER Left 2x6 SP No.1 3-3-6

REACTIONS. (lb/size) 1=912/0-3-8, 14=1803/(0-3-8 + bearing block) (req. 0-3-15), 11=-120/0-3-8

Max Horz 1=-182(LC 10) Max Uplift 11=-204(LC 30)

Max Grav 1=1310(LC 24), 14=2502(LC 25)

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

TOP CHORD 1-3=-1943/45, 3-4=-1781/71, 4-6=-1182/115, 6-7=-1160/113, 7-8=-2232/0, 8-9=-846/19,

9-10=0/2072, 10-11=0/1482

BOT CHORD 1-18=0/1676, 17-18=0/1386, 16-17=0/1591, 15-16=0/959, 14-15=-2227/26,

11-14=-1371/0

WEBS 4-18=0/512, 4-17=-633/84, 6-17=-42/855, 7-17=-836/48, 7-16=0/916, 8-16=0/1046,

8-15=-1330/18, 9-15=0/2893, 9-14=-1375/50, 10-14=-663/65

NOTES-

- 1) 2x4 SP No.1 bearing block 12" long at jt. 14 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. User Defined Bearing crushing capacity= 425psi.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=41ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) All bearings are assumed to be User Defined crushing capacity of 425 psi
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=204.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 26,2019

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent 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 or property damage. For general guidance regarding the fabrication, storage, delivery, serection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

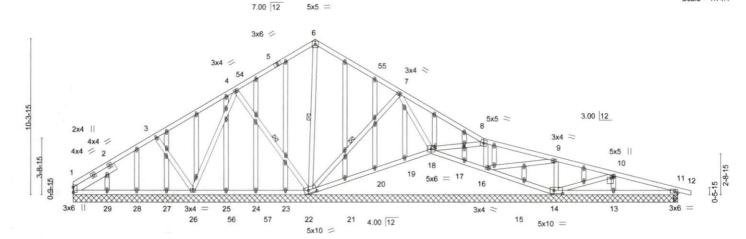


Job Truss Truss Type Qty SAMMY MCNEILL E12842503 P19-03013 T09 Roof Special Supported Gable Job Reference (optional) 8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Mar 25 15:29:53 2019 Page 1

Longleaf Truss Company, West End, NC - 27376

ID:aOT2DsuQeA7g4EYkxuHtfWzXPFs-wQoG1cJEZUkSVnDKU85jbymPQU0vQau9E4NHJXzXLuy 36-2-14 16-3-8 32-3-8 5-7-12

Scale = 1:74.1



	8-0-12	15-10-0	24-0-12	1 2	27-7-0	1	32-3-8		40-7-0	1
	8-0-12	7-9-4	8-2-12		3-6-4	1	4-8-8		8-3-8	1
Plate Offsets (X,Y)	[1:0-4-2,0-0-3], [10:0-0-	-12,0-1-12], [14:0-7-0,0-2-	8], [18:0-2-0,0-0-4], [22:0-6-	-8,0-2-8], [49:0-	1-9,0-0-	12]				
Snow (Pf/Pg) 11.6/15 TCDL 10 BCLL 0	0.0 Lumber Rep Str	rip DOL 1.15	CSI. TC 0.35 BC 0.15 WB 0.19 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.01 0.01	(loc) 26 11-13 11	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 314 lb	GRIP 244/190 FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1

2x4 SP No.3 WERS 2x4 SP No 3 OTHERS SLIDER

Left 2x6 SP No.1 3-3-6

BRACING-

WEBS

TOP CHORD **BOT CHORD**

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

1 Row at midnt

4-22 6-22 7-22

REACTIONS. All bearings 40-7-0 except (jt=length) 11=0-3-8, 11=0-3-8.

(lb) - Max Horz 1=-182(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 14, 16, 28, 11 except 22=-147(LC

12)

Max Grav All reactions 250 lb or less at joint(s) 23, 24, 25, 27, 28, 29, 21, 20.

19, 17, 15, 13, 11 except 1=400(LC 2), 22=844(LC 2), 18=315(LC 39), 14=551(LC

39), 16=274(LC 25), 11=279(LC 39)

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

1-3=-540/90, 3-4=-339/116, 10-11=-297/59 TOP CHORD BOT CHORD

1-29=-27/448, 28-29=-27/448, 27-28=-27/448, 26-27=-27/448, 13-14=-34/252,

11-13=-34/252

3-26=-272/98 4-22=-428/128 6-22=-363/0 7-18=-300/51 8-16=-286/55 9-14=-338/62

10-14=-421/90

NOTES-

WEBS

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=41ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.

5) Unbalanced snow loads have been considered for this design.

- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads
- 7) All plates are 1.5x4 MT20 unless otherwise indicated

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

- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

11) All bearings are assumed to be User Defined crushing capacity of 425 psi.

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 14, 16, 28, 11 Contexcept fits b) 22=147

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

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





Job	Truss	Truss Type	Qty	Ply	SAMMY MCNEILL
P19-03013	T09	Roof Special Supported Gable	1	1	E12842503
1.0000.0		Troot opens capperted capit			Job Reference (optional)

Longleaf Truss Company,

West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Mar 25 15:29:53 2019 Page 2 ID:aOT2DsuQeA7g4EYkxuHtfWzXPFs-wQoG1cJEZUkSVnDKU85jbymPQU0vQau9E4NHJXzXLuy

NOTES-

13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 26,2019

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

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

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



Job Truss Truss Type Qty SAMMY MCNEILL E12842504 P19-03013 T10 Common Job Reference (optional) Longleaf Truss Company West End. NC - 27376 8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Mar 25 15:29:54 2019 Page 1 ID:aOT2DsuQeA7g4EYkxuHtfWzXPFs-OdLeEyJsKosJ7woX2rcy7AJeWuNl93FJSk7qrzzXLux -0-10-8 3-0-0 6-10-8 0-10-8 6-0-0 4x4 = Scale = 1:17.6 7.00 12 3x4 / 5 3x4 \ 6 0-9-15 0-9-15 8 1.5x4 2.5x6 2.5x6 Plate Offsets (X,Y)-- [2:0-4-2,0-0-3], [6:0-4-2,0-0-3] LOADING (psf) SPACING-2-0-0 CSI. DEFL. PLATES in (loc) I/defl L/d GRIP 20.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.07 Vert(LL) -0.00 244/190 >999 240 2-8 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 BC 0.08 Vert(CT) -0.01 2-8 >999 180 TCDL 10.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00

BRACING-

TOP CHORD

BOT CHORD

Matrix-P

6

Sheathed or 6-0-0 oc purlins.

n/a

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

n/a

LUMBER-

BCLL

BCDL

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1

WEBS 2x4 SP No.3 SLIDER

Left 2x6 SP No.1 1-9-0, Right 2x6 SP No.1 1-9-0

0.0

10.0

REACTIONS. (lb/size) 2=227/0-3-8, 6=227/0-3-8 Max Horz 2=-39(LC 10)

Max Uplift 2=-21(LC 12), 6=-21(LC 12)

Max Grav 2=292(LC 2), 6=292(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-264/3, 4-6=-264/0

Code IRC2018/TPI2014

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads
- 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) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Weight: 34 lb

FT = 20%

March 26,2019

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



Job Truss Type Qty SAMMY MCNEILL Truss E12842505 P19-03013 Valley V01 Job Reference (optional) 8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Mar 25 15:29:55 2019 Page 1 Longleaf Truss Company, West End, NC - 27376, ID:aOT2DsuQeA7g4EYkxuHtfWzXPFs-spv0SHKU55_Al4NjcZ7BgNsp7lkwuV2ShNsNNQzXLuw 23-3-2 Scale = 1:43.0 4x4 = 7.00 12 3 10 11 -6-3x4 < 3x4 / 12 21 16 15 14 13 20 19 18 17 3x4 = LOADING (psf) **PLATES** GRIP SPACING-2-0-0 CSI DEFL. I/defl L/d in (loc) TCLL (roof) 20.0 244/190 Plate Grip DOL TC 0.08 999 MT20 1.15 Vert(LL) n/a n/a Snow (Pf/Pg) 11.6/15.0 BC 0.05 999 Lumber DOL 1.15 Vert(CT) n/a n/a TCDL 10.0 WB Rep Stress Incr YES 0.08 Horz(CT) 0.00 11 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 121 lb FT = 20%BCDL 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.1 TOP CHORD Sheathed or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.1 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. OTHERS 2x4 SP No.3

REACTIONS. All bearings 23-2-5

Max Horz 1=-112(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 17, 18, 20, 21, 15, 14, 13, 12

Max Grav All reactions 250 lb or less at joint(s) 1, 11, 16, 17, 18, 20, 15, 14, 13 except 21=253(LC 2), 12=253(LC 2)

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=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 18, 20, 21,
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 26,2019

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



Job	Truss	Truss Type		Qty	Ply	SAMMY	MCNEILL			
219-03013	V02	Veller			1					E12842506
19-03013	V02	Valley		1	1	Job Ref	erence (option	al)		
Longleaf Truss Compan	y, West End, NC - 273	376,		8	.240 s De				Mar 25 15:29:56 2	019 Page 1
		40.05	II	D:aOT2DsuQe	A7g4EYkx	uHtfWzXF	Fs-L?TOfdL6	P61MExvA	GfQDbOzii3?dyfbw	1cxwszXLuv
-		10-9-5 10-9-5				-	21-6-9 10-9-5			
			4x4 =							Scale = 1:39.8
			4							
4"	7.00	12								
		/				5				
		3								
7						19				
6-3-7										
								6		
	2							1/2		
								Tel		
1 4									7	
4		•	18					191	0	-6-
₹ 50000		***************************************		***********	*******	******	***********	***********	***************************************	3
3x4 //	13	12 11 14	10			915		8	3x4 📎	
		3x4 =								
0-0-7			21-6-9							
0-0-7 0-0-7			21-6-2							
OADING (psf)	SPACING	- 2-0-0	CEL	DEFL.	14	(1)	1/4-0	a.	DIATES	GRIP
TCLL (roof) 20	.0 Plate Crip		CSI. TC 0.16	Vert(LL)	in n/a		I/defi L/ n/a 99		PLATES MT20	244/190
Snow (Pf/Pg) 11.6/15	U Lumber Do		BC 0.13	Vert(CT			n/a 99		WITZU	244/130
FCDL 10 BCLL 0	Rep Stress	s Incr YES	WB 0.12	Horz(C1			n/a n/			
BCDL 10		2018/TPI2014	Matrix-S						Weight: 89 lb	FT = 20%
UMBER-			RD	ACING-						
TOP CHORD 2x4 SP	No.1			CHORD	Sheath	ed or 6-0	-0 oc purlins.			
BOT CHORD 2x4 SP	No.1			CHORD			ctly applied o	r 10-0-0 oc	bracing.	
OTHERS 2x4 SP	No.3				-		5 1.0			

All bearings 21-5-11. (lb) - Max Horz 1=-104(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 11, 13, 9, 8

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=369(LC 23), 11=429(LC 23), 13=320(LC 23), 9=428(LC 24), 8=320(LC 24)

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

WEBS 3-11=-267/87, 5-9=-267/87

NOTES-

REACTIONS.

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 9) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 13, 9, 8.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 26,2019

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent 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/TEH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty SAMMY MCNEILL E12842507 P19-03013 V03 Valley Job Reference (optional) 8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Mar 25 15:29:58 2019 Page 1 Longleaf Truss Company West End. NC - 27376. ID:aOT2DsuQeA7g4EYkxuHtfWzXPFs-HOb94JNNO0MlcY5IHhhuI0UHMVjY5sjuNL51_kzXLut 9-11-0 19-10-0 Scale = 1:37.2 4x4 = 3 7.00 12 1.5x4 1.5x4 || • 3x4 / 3x4 > 6 11 3x4 = 1.5x4 || 1.5x4 || 1.5x4 || 19-10-0 19-9-9 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl **PLATES** GRIP in L/d (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.27 Vert(LL) MT20 244/190 n/a n/a 999 Snow (Pf/Pg) 11.6/15.0 Lumber DOL BC 0.18 999 1.15 Vert(CT) n/a n/a TCDL 10.0 Rep Stress Incr YES WB 0.09 5 Horz(CT) 0.00 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Weight: 78 lb FT = 20% Matrix-S BCDL 10.0

LUMBER-

TOP CHORD 2x4 SP No.1 2x4 SP No.1 **BOT CHORD**

2x4 SP No.3 **OTHERS**

BRACING-

TOP CHORD

Sheathed or 6-0-0 oc purlins. **BOT CHORD**

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

REACTIONS. All bearings 19-9-2.

Max Horz 1=95(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 9, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=293(LC 23), 9=559(LC 23), 6=559(LC 24)

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

2-9=-343/109, 4-6=-343/109 **WEBS**

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.

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, with BCDL = 10.0psf.
- 8) All bearings are assumed to be User Defined crushing capacity of 425 psi.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6.

10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 26,2019

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ANSI/TPH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandra, VA 22314.



Job Truss Truss Type Qty Ply SAMMY MCNEILL E12842508 V04 Valley P19-03013 Job Reference (optional) 8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Mar 25 15:29:59 2019 Page 1 Longleaf Truss Company, West End, NC - 27376 ID:aOT2DsuQeA7g4EYkxuHtfWzXPFs-la9XHfN?9KUbEigUrPC7qD0Tkv4BqJB2c?qbWBzXLus 16-10-0 Scale = 1:34.7 3 7.00 12 1.5x4 || 1.5x4 3x4 / 3x4 > 6 1.5x4 3x4 = 1 5x4 1.5x4 || 16-9-9 16-10-0

					16-9	-9					0-0-7	
LOADING (psf TCLL (roof) Snow (Pf/Pg) 1 TCDL BCLL	20.0 11.6/15.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.17 0.09 0.07	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-S						Weight: 64 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

OTHERS 2x4 SP No.3 BRACING-

TOP CHORD

Sheathed or 6-0-0 oc purlins. **BOT CHORD**

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

REACTIONS. All bearings 16-9-2.

(lb) - Max Horz 1=80(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 9, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=375(LC 29), 6=375(LC 30)

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

WEBS 2-9=-280/90, 4-6=-280/90

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.

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) All bearings are assumed to be User Defined crushing capacity of 425 psi.

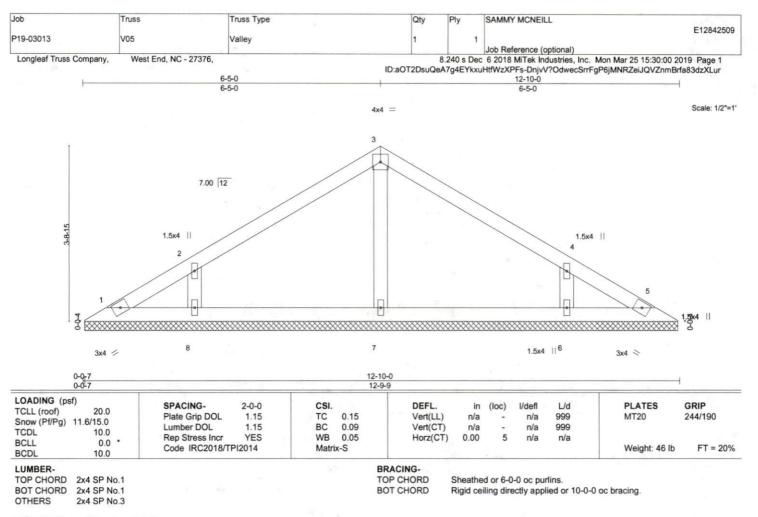
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1



March 26,2019

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





REACTIONS. All bearings 12-9-2.

(lb) - Max Horz 1=59(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=273(LC 2), 8=307(LC 16), 6=307(LC 17)

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=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate or ip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 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) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 26,2019

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

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

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



Job Truss Truss Type Qty SAMMY MCNEILL F12842510 P19-03013 V06 Valley Job Reference (optional) Longleaf Truss Company, West End, NC - 27376 8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Mar 25 15:30:00 2019 Page 1 ID:aOT2DsuQeA7g4EYkxuHtfWzXPFs-DnjvV?OdwecSrrFgP6jMNRZgJJRXZn6Brfa83dzXLur 4-5-0 8-10-0 Scale = 1:18.4 4x4 = 3 7.00 12 1.5x4 || 4 1.5x4 || 10 400 00. 1.5x4 || 2x4 / 2x4 > 8-10-0 8-9-9 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d PLATES GRIP in (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) 244/190 n/a n/a 999 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 BC 0.02 Vert(CT) 999 n/a n/a TCDL 10.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 5 n/a n/a 0.0 * BCLL Code IRC2018/TPI2014 Matrix-P Weight: 32 lb FT = 20% BCDL 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.1 TOP CHORD Sheathed or 6-0-0 oc purlins. **BOT CHORD** 2x4 SP No.1 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing **OTHERS** 2x4 SP No.3

REACTIONS. All bearings 8-9-2.

(lb) - Max Horz 1=-39(LC 10)

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

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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

NOTES-

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) Gable requires continuous bottom chord bearing.

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) All bearings are assumed to be User Defined crushing capacity of 425 psi.

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



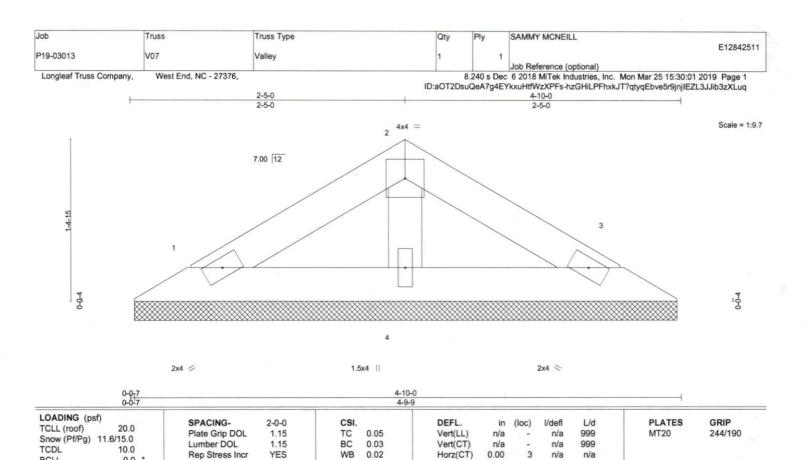
March 26,2019

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

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

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





Matrix-P

BRACING-

TOP CHORD

BOT CHORD

Sheathed or 4-10-0 oc purlins.

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

LUMBER-

BCLL

BCDL

TOP CHORD 2x4 SP No.1 2x4 SP No.1 **BOT CHORD**

2x4 SP No.3 **OTHERS**

REACTIONS. (lb/size) 1=61/4-9-2, 3=61/4-9-2, 4=115/4-9-2

Max Horz 1=-19(LC 10)

0.0 *

10.0

Max Uplift 1=-7(LC 12), 3=-7(LC 12)

Max Grav 1=79(LC 2), 3=79(LC 2), 4=141(LC 2)

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

Code IRC2018/TPI2014

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 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) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Weight: 15 lb

FT = 20%

March 26,2019

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

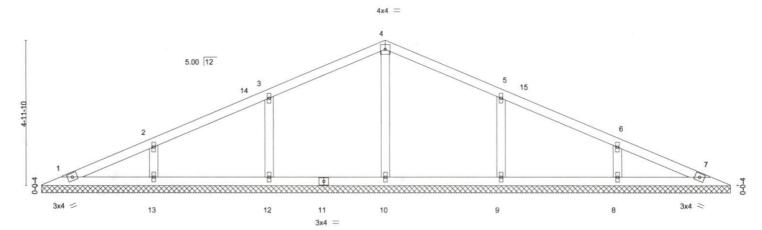


Qty Ply SAMMY MCNEILL Job Truss Truss Type E12842512 P19-03013 V08 Valley Job Reference (optional) Longleaf Truss Company, West End. NC - 27376

8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Mar 25 15:30:02 2019 Page 1 ID:aOT2DsuQeA7g4EYkxuHtfWzXPFs-99qfwhQtSFsA59P3WXlqSse_B6671gjUlz3F7WzXLup

23-10-5

Scale = 1:38.1



0-0 ₁ 10 0-0-10		23-10- 23-9-1							
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.16 BC 0.08 WB 0.09 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 7	I/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 89 lb	GRIP 244/190 FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1

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

TOP CHORD **BOT CHORD** Sheathed or 6-0-0 oc purlins.

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

REACTIONS. All bearings 23-9-2.

(lb) - Max Horz 1=-71(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 12, 13, 9, 8

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=280(LC 2), 12=342(LC 29), 13=315(LC 2),

9=342(LC 30), 8=315(LC 2)

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

WEBS 3-12=-262/69, 5-9=-262/69

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

 9) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 13, 9, 8.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



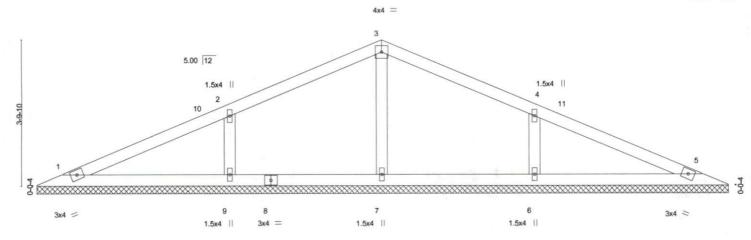
March 26,2019

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



Job Truss Truss Type Qty Ply SAMMY MCNEILL F12842513 P19-03013 V09 Valley Job Reference (optional) Longleaf Truss Company, West End, NC - 27376. 8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Mar 25 15:30:04 2019 Page 1 ID:aOT2DsuQeA7g4EYkxuHtfWzXPFs-6YyQKMR8_s7uKTZSeyoIXHjJ_wn4VbdnmHYMCOzXLun 18-3-2

Scale = 1:29.1



0-0 ₁ 10 0-0-10		18-3-2 18-2-							
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.20 BC 0.11	DEFL. Vert(LL) Vert(CT)	in n/a n/a	(loc)	I/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.06 Matrix-S	Horz(CT)	0.00	5	n/a	n/a	Weight: 63 lb	FT = 20%

LUMBER-

2x4 SP No.1 TOP CHORD **BOT CHORD** 2x4 SP No.1 2x4 SP No.3 OTHERS

BRACING-

TOP CHORD **BOT CHORD**

Sheathed or 6-0-0 oc purlins.

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

REACTIONS. All bearings 18-1-14.

(lb) - Max Horz 1=-53(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 9, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=404(LC 29), 6=404(LC 30)

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

WERS 2-9=-300/77, 4-6=-300/77

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 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) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 26,2019

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

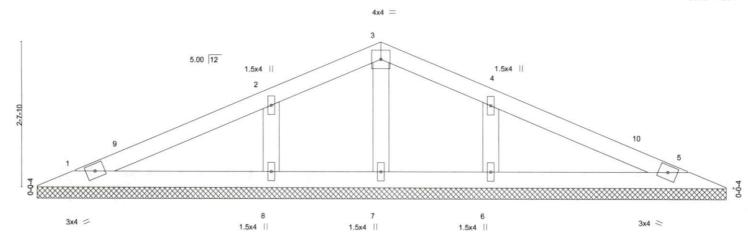
ANS/TPH Quality Criteria, DSB-89 and BCSI Building Con Safety Information

available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Truss Qty Ply SAMMY MCNEILL Job Truss Type E12842514 P19-03013 V10 Valley Job Reference (optional) West End, NC - 27376, 8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Mar 25 15:30:05 2019 Page 1 Longleaf Truss Company, ID:aOT2DsuQeA7g4EYkxuHtfWzXPFs-akWoYiSmlAFlyd8eBfJX4UGWyK7_E26w_xHvkrzXLum 12-7-14

Scale = 1:20.1



0-0 ₁ 10 0-0-10		12-7-1 12-7-							
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.12 BC 0.07 WB 0.05 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 5	I/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 43 lb	GRIP 244/190 FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1

BOT CHORD 2x4 SP No.1 2x4 SP No.3 OTHERS

BRACING-

TOP CHORD **BOT CHORD** Sheathed or 6-0-0 oc purlins.

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

REACTIONS. All bearings 12-6-11.

(lb) - Max Horz 1=-35(LC 10)

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

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=317(LC 16), 6=317(LC 17)

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=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 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) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 26,2019

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

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



Job Truss Truss Type Qty SAMMY MCNEILL E12842515 P19-03013 V11 Valley Job Reference (optional) Longleaf Truss Company, West End, NC - 27376. 8.240 s Dec 6 2018 MiTek Industries, Inc. Mon Mar 25 15:30:05 2019 Page 1 ID:aOT2DsuQeA7g4EYkxuHtfWzXPFs-akWoYiSmlAFlyd8eBfJX4UGWCK8BE2Mw_xHvkrzXLum 7-0-11 Scale = 1:12.9 4x4 = 2 5.00 12 0-0-4 2x4 = 1.5x4 || 2x4 > LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl PLATES GRIP in (loc) L/d TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.11 Vert(LL) 244/190 n/a n/a 999 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 BC 0.06 Vert(CT) 999 n/a n/a TCDL 10.0 WB Rep Stress Incr YES 0.03 Horz(CT) 3 0.00 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 21 lb FT = 20% BCDL 10.0 LUMBER-**BRACING-**TOP CHORD 2x4 SP No.1 TOP CHORD Sheathed or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.1 Rigid ceiling directly applied or 10-0-0 oc bracing. **BOT CHORD OTHERS** 2x4 SP No.3

REACTIONS.

(lb/size) 1=85/6-11-8, 3=85/6-11-8, 4=180/6-11-8

Max Horz 1=18(LC 11)

Max Uplift 1=-8(LC 12), 3=-8(LC 12)

Max Grav 1=110(LC 2), 3=110(LC 2), 4=223(LC 2)

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=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 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) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 26,2019

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MT eks connectors. This design is based only upon parameters and nown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and 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 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 in the overall building composition and the property damage. For general guidance regarding the Assistance and the property damage. For general guidance regarding the Assistance and the property damage. For general guidance are described and the property damage. For general guidance and the property damage and the property damage. For general guidance and the property damage and the property damage. For general guidance and the property damage and the property damage. For general guidance and

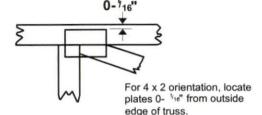


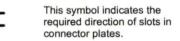
Symbols

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.





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

PLATE SIZE

 4×4

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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

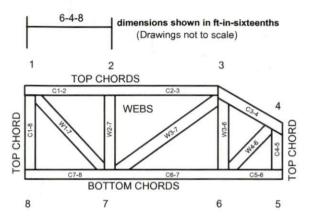
ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.

Connected Wood Trusses.

DSB-89: Design Standard for Bracing.

Building Component Safety Information. BCSI: Guide to Good Practice for Handling, Installing & Bracing of Metal Plate

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- 2. 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.
- 4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other.
- 6. 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.
- 7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- 8. 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 responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- 16. Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- 19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.





Double 1-3/4" x 20" VERSA-LAM® 2.0 3100 SP

PASSED

RB01 (Roof Beam)

BC CALC® Member Report

Dry | 1 span | No cant.

March 25, 2019 16:06:22

Build 7133

Job name:

SAMMY MCNEILL

File name:

P19-03013

Address:

Description:

City, State, Zip:

Specifier:

BEAM RB01

Builder:

SERVICE BUILDING SUPPLY

Designer:

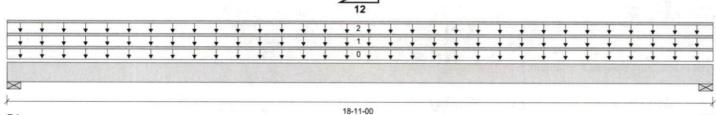
Mark Lovelace

Code reports:

ESR-1040

Company:

LongLeaf



B1

B₂

Total Horizontal Product Length = 18-11-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live	
B1, 4"		5205 / 0	4067 / 0	The Reserve		
B2, 4"		5205 / 0	4067 / 0			

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	18-11-00	Тор		20				00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	18-11-00	Top		430	430			n\a
2		Unf. Lin. (lb/ft)	L	00-00-00	18-11-00	Top		100				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	41372 ft-lbs	63.2%	115%	4	09-05-08
End Shear	7311 lbs	47.8%	115%	4	02-00-00
Total Load Deflection	L/409 (0.539")	44.0%	n\a	4	09-05-08
Live Load Deflection	L/933 (0.236")	25.7%	n\a	5	09-05-08
Max Defl.	0.539"	53.9%	n\a	4	09-05-08
Span / Depth	11.0				

Bear	ing Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material	
B1	Wall/Plate	4" x 3-1/2"	9272 lbs	n\a	88.3%	Unspecified	
B2	Wall/Plate	4" x 3-1/2"	9272 lbs	n\a	88.3%	Unspecified	

Cautions

For roof members with slope (1/4)/12 or less final design must ensure that ponding instability will not

For roof members with slope (1/2)/12 or less final design must account for Rain-on-Snow surcharge load.

Notes

Design meets Code minimum (L/180) Total load deflection criteria.

Design meets Code minimum (L/240) Live load deflection criteria.

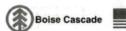
Design meets arbitrary (1") Maximum Total load deflection criteria.

Calculations assume member is fully braced.

BC CALC® analysis is based on IBC 2018.

Design based on Dry Service Condition.

Member has no side loads.



Double 1-3/4" x 20" VERSA-LAM® 2.0 3100 SP

PASSED

RB01 (Roof Beam)

BC CALC® Member Report

Dry | 1 span | No cant.

March 25, 2019 16:06:22

Build 7133

Job name:

Builder:

SAMMY MCNEILL

File name:

P19-03013

Address: City, State, Zip: Description: Specifier: BEAM RB01

SERVICE BUILDING SUPPLY

Designer:

Mark Lovelace

Code reports:

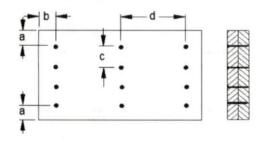
ESR-1040

Company: LongLeaf

User Notes

This design is provided as a courtesy to the builder and does NOT guarantee a complete structural review of this project. Neither lateral nor seismic analysis has been considered. All bearing conditions, connections, spans, o.c. spacing, loading and product usages shall be verified by the builder and engineer of record. This design shall be reviewed, verified and approved by the builder, project engineer and local building department prior to ordering materials.

Connection Diagram: Full Length of Member



a minimum = 2"

c = 5-3/8"

b minimum = 3"

d = 24"

Member has no side loads. Connectors are: 3-1/4 in. Pneumatic Gun Nails

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,