

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0221-0904

Lot 8 Spartan Ridge

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: E15437643 thru E15437654

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



February 23,2021

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	Lot 8 Spartan Ridge
					E15437643
J0221-0904	ET1	Floor Supported Gable	1	1	
					Inh Reference (ontional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Feb 23 11:23:42 2021 Page 1 ID:Y_aRO?Cxglt9gUrlHW7gHdzqoOe-duYh9LOE?H1mxXOM1MVAynXcsLxlapMB13AmkOziGjV

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

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

except end verticals.

0118

0<u>-1-</u>8

Scale = 1:18.0

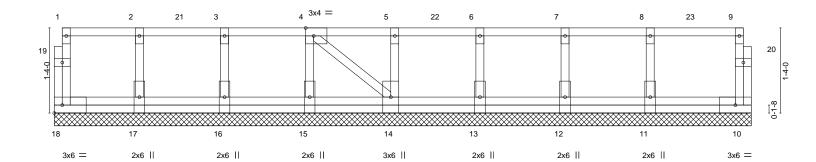


Plate Offsets (X,Y)	Plate Offsets (X,Y) [4:0-1-8,Edge]							
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.18 BC 0.00 WB 0.05 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc n/a - n/a - 0.00 10	n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 66 lb	GRIP 244/190 FT = 20%F. 11%E

BRACING-TOP CHORD

BOT CHORD

10-11-0

2x4 SP No.3(flat) WFBS **OTHERS** 2x4 SP No.3(flat)

2x4 SP No 1(flat)

2x4 SP No.1(flat)

REACTIONS. All bearings 10-11-0. (lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

NOTES-

LUMBER-

TOP CHORD

BOT CHORD

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 10-18=-10, 1-9=-100

Concentrated Loads (lb)

Vert: 4=-92 7=-92 21=-92 22=-92 23=-95



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Job	Truss	Truss Type	Qty	Ply	Lot 8 Spartan Ridge
	FTO				E15437644
J0221-0904	ET2	Floor Supported Gable	1	1	l
					Inh Reference (ontional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Feb 23 11:23:44 2021 Page 1 ID:Y_aRO?Cxglt9gUrlHW7gHdzqoOe-ZHgRa1QUXvHUArXl9nXe1CczG9dA2jAUUNfspHziGjT

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

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

except end verticals.

0-1-8

Scale = 1:66.9

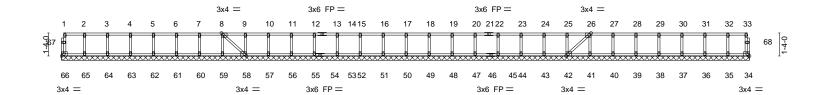


Plate Offsets (X,Y)	[8:0-1-8,Edge], [26:0-1-8,Edge], [42:0-1	-8,Edge], [58:0-1-8,Edge]	33-11-0	
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.06 BC 0.01 WB 0.03	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 244/190 Vert(CT) n/a 999 MT20 244/190 Horz(CT) -0.00 42 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	Weight: 176 lb FT = 20%F	F, 11%E

BRACING-

TOP CHORD

BOT CHORD

39-11-0

2x4 SP No.3(flat)

2x4 SP No 1(flat)

BOT CHORD 2x4 SP No.1(flat) WFBS

OTHERS 2x4 SP No.3(flat)

> All bearings 39-11-0. (lb) - Max Grav All reactions 250 lb or less at joint(s) 66, 34, 65, 64, 63, 62, 61, 60, 59, 58, 57, 56, 55, 53, 52, 51, 50, 49, 48, 47, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35

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

LUMBER-

TOP CHORD

REACTIONS.

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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

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

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

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

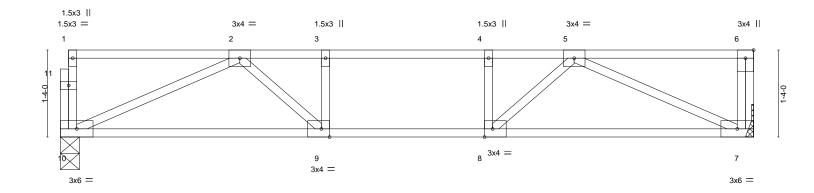


Job	Truss	Truss Type	Qty	Ply	Lot 8 Spartan Ridge
					E15437645
J0221-0904	F1	Floor	4	1	
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Feb 23 11:23:44 2021 Page 1 ID:Y_aRO?Cxglt9gUrlHW7gHdzqoOe-ZHgRa1QUXvHUArXl9nXe1CcuF9YA2f5UUNfspHziGjT

0-1-8 2-6-0 1-3-0 2-4-8 1-3-0 H

Scale = 1:17.7



I	10-7-8	1
	10-7-8	
Plate Offsets (X,Y) [8:0-1-8,Edge], [9:0-1-8,Edge]		

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.38	Vert(LL) -0.07 9-10 >999 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.33	Vert(CT) -0.10 9-10 >999 360	
BCLL	0.0	Rep Stress Incr YES	WB 0.29	Horz(CT) 0.02 7 n/a n/a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 54 lb FT = 20%F, 11%E

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat)

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 10=0-3-8, 7=Mechanical

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

2-3=-1188/0, 3-4=-1188/0, 4-5=-1188/0 TOP CHORD **BOT CHORD** 9-10=0/958, 8-9=0/1188, 7-8=0/961

WEBS 2-10=-1048/0, 5-7=-1057/0, 5-8=0/454, 2-9=0/455

Max Grav 10=564(LC 1), 7=571(LC 1)

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.



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

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

except end verticals.

Job	Truss	Truss Type	Qty	Ply	Lot 8 Spartan Ridge
					E15437646
J0221-0904	F2	Floor	2	1	
					Job Reference (optional)

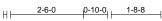
8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Feb 23 11:23:46 2021 Page 1 ID:Y_aRO?Cxglt9gUrlHW7gHdzqoOe-VgoB_jSk2WXCQ9h8GBZ66dhBky7vWVYnyh8ztAziĞjR

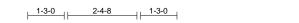
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

0-1-8 Scale = 1:39.6

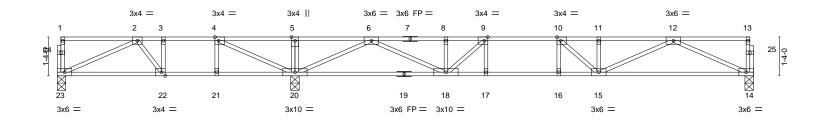
0-1-8





23-11-0

except end verticals.



"	8-2-0	'	15-9-0	'
Plate Offsets (X,Y)	[4:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-	8,Edge], [22:0-1-8,Edge]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.57	Vert(LL) -0.17 15-16 >999 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.76	Vert(CT) -0.22 15-16 >838 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.55	Horz(CT) 0.04 14 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 121 lb FT = 20%F, 11%E

BRACING-TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No 1(flat) BOT CHORD 2x4 SP No.1(flat)

WFBS 2x4 SP No.3(flat)

8-2-0

REACTIONS. (size) 23=0-3-8, 20=0-3-8, 14=0-3-8 Max Grav 23=399(LC 3), 20=1476(LC 1), 14=807(LC 7)

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

TOP CHORD 2-3=-576/210, 3-4=-576/210, 4-5=0/819, 5-6=0/819, 6-8=-2093/0, 8-9=-2093/0,

9-10=-2436/0, 10-11=-2309/0, 11-12=-2309/0

22-23=-67/604, 21-22=-210/576, 20-21=-210/576, 18-20=0/1100, 17-18=0/2436, BOT CHORD 16-17=0/2436, 15-16=0/2436, 14-15=0/1491

> $5-20 = -251/0, \ 2-23 = -659/75, \ 4-20 = -1113/0, \ 2-22 = -273/0, \ 6-20 = -1846/0, \ 6-18 = 0/1156,$ $12\text{-}14\text{=-}1636/0,\ 12\text{-}15\text{=-}0/904,\ 11\text{-}15\text{=-}251/25,\ 10\text{-}15\text{=-}400/107,\ 9\text{-}18\text{=-}679/0}$

NOTES-

WFBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.



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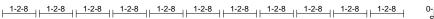
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information
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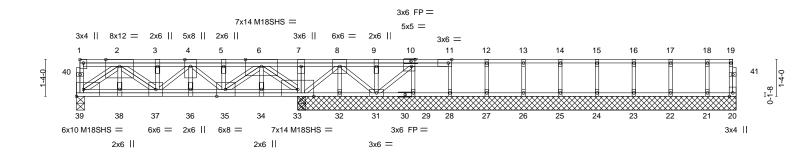
Job	Truss	Truss Type	Qty	Ply	Lot 8 Spartan Ridge	
	F2Δ	_				E15437647
J0221-0904	F2A	Floor	1	1	Job Reference (optional)	

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Feb 23 11:23:48 2021 Page 1 ID:Y_aRO?Cxglt9gUrlHW7gHdzqoOe-S2vyPOT?a7nwfSrWOccaB2nZtmv7_Li4P?d4y2ziGjP

0-1-8



0-1-8 Scale = 1:41.8



	8-0-4		15-10-12	<u>'</u>
Plate Offsets (X,Y)	[1:Edge,0-1-8], [10:0-1-8,Edge], [11:0-1	-8,Edge], [35:0-3-12,Edge	e]	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.40	Vert(LL) -0.03 36 >999 480 MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.32	Vert(CT) -0.06 36 >999 360 M18SHS	244/190
BCLL 0.0	Rep Stress Incr NO	WB 0.83	Horz(CT) 0.01 33 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	Weight:	163 lb FT = 20%F, 11%E

LUMBER-TOP CHORD 2x4 SP 2400F 2 0F(flat)

BOT CHORD 2x4 SP 2400F 2.0E(flat)

WFBS 2x4 SP No.3(flat)

BRACING-TOP CHORD BOT CHORD

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

except end verticals.

23-11-0

Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 32-33,31-32.

REACTIONS. All bearings 15-10-12 except (jt=length) 39=0-3-8.

8-0-4

(lb) - Max Grav All reactions 250 lb or less at joint(s) except 39=3198(LC 1), 20=266(LC 1), 33=6051(LC 1), 33= 1), 32=470(LC 1), 31=1404(LC 1), 29=648(LC 1), 28=1270(LC 1), 27=1238(LC 1), 26=1241(LC 1), 25=1239(LC 1), 24=1242(LC 1), 23=1232(LC 1), 22=1270(LC 1), 21=1125(LC 1)

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

TOP CHORD 1-39=-520/0, 19-20=-264/0, 2-3=-5006/0, 3-4=-5068/0, 4-5=-4015/0, 5-6=-3949/0,

6-7=0/2814. 7-8=0/2639. 8-9=0/628. 9-10=0/628

BOT CHORD 38-39=0/3531, 37-38=0/3531, 36-37=0/5150, 35-36=0/5150, 34-35=0/1265, 33-34=0/1265,

32-33=-1102/0, 31-32=-1102/0

WEBS 7-33=-1527/0, 2-39=-4385/0, 2-37=0/1912, 3-37=-1098/0, 6-33=-5289/0, 6-35=0/3479, $5-35 = -1167/0,\ 8-33 = -1887/0,\ 8-32 = -462/0,\ 8-31 = 0/625,\ 9-31 = -1151/0,\ 10-31 = -934/0,$

10-29=-640/0, 11-28=-1255/0, 12-27=-1225/0, 13-26=-1227/0, 14-25=-1226/0, 15-24=-1229/0, 16-23=-1219/0, 17-22=-1257/0, 18-21=-1112/0, 4-35=-1498/0

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) The Fabrication Tolerance at joint 28 = 3%, joint 27 = 3%, joint 12 = 3%, joint 26 = 3%, joint 13 = 3%, joint 25 = 3%, joint 14 = 3%, joint 24 = 3%, joint 15 = 3%, joint 23 = 7%, joint 16 = 7%, joint 22 = 3%, joint 17 = 3%
- 5) Plates checked for a plus or minus 1 degree rotation about its center.
- 6) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this
- 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 8) CAUTION. Do not erect truss backwards.

LOAD CASE(S) Standard Except:

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-920

2) Dead: Lumber Increase=1.00, Plate Increase=1.00



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Design Valid to its 80 mly with win New Commercials. This design is based only upon parameters shown, and is for an individual orusining 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

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Job	Truss	Truss Type	Qty	Ply	Lot 8 Spartan Ridge	
J0221-0904	F2A	Floor	1	1		E15437647
30221-0304	120	1 1001	'	· '	Job Reference (optional)	

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 20-39=-10. 1-19=-570

3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

5) 3rd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

6) 4th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

7) 5th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10. 1-19=-570

8) 6th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

9) 7th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

10) 8th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10. 1-19=-570

11) 9th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

12) 10th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

13) 11th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

14) 12th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

15) 13th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

16) 14th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

17) 15th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

18) 16th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

19) 17th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

20) 18th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

21) 19th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10. 1-19=-570

22) 20th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

23) 21st chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

24) 22nd chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10. 1-19=-570

25) 23rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

26) 24th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

27) 25th chase Dead: Lumber Increase=1.00, Plate Increase=1.00



Job	Truss	Truss Type	Qty	Ply	Lot 8 Spartan Ridge
					E15437647
J0221-0904	F2A	Floor	1	1	
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Feb 23 11:23:48 2021 Page 3 ID:Y_aRO?Cxglt9gUrlHW7gHdzqoOe-S2vyPOT?a7nwfSrWOccaB2nZtmv7_Li4P?d4y2ziGjP

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

28) 26th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

29) 27th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

30) 28th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

31) 29th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

32) 30th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 20-39=-10, 1-19=-570

33) 31st chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

34) 32nd chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

35) 33rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570 36) 34th chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570 37) 35th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

38) 36th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 20-39=-10, 1-19=-570

Job	Truss	Truss Type	Qty	Ply	Lot 8 Spartan Ridge
					E15437648
J0221-0904	F3	Floor Girder	1	1	
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Feb 23 11:23:50 2021 Page 1 ID:Y_aRO?Cxglt9gUrlHW7gHdzqoOe-OR1iq4VF6l1eum?vV1e2GTsrhaTISCXNtJ6B0xziGjN

24-3-12

0-1-8 2-6-0 2-0-0 1-9-8 1-3-0 1-2-8 HH

1-2-8 0-1-8 Scale = 1:40.4

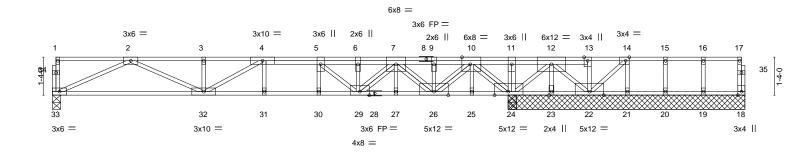


Plate Offsets (X,Y)	1 [10:0-3-8,Edge], [14:0-1-8,Edge], [24:0-1-8,Edge]	6-3-8 -5-12,Edge]					8-0-4	
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.70 BC 0.86 WB 1.00 Matrix-S	Vert(CT) -0	in (loc) 0.15 30 0.21 30 0.03 24	I/defl >999 >903 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 155 lb	GRIP 244/190 FT = 20%F. 11%E

LUMBER-**BRACING-**TOP CHORD 2x4 SP No 1(flat)

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.1(flat) except end verticals.

WFBS 2x4 SP No.3(flat) BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 25-26,24-25,23-24,22-23.

REACTIONS. All bearings 8-3-12 except (jt=length) 33=0-3-8.

(lb) -Max Uplift All uplift 100 lb or less at joint(s) except 23=-897(LC 1), 22=-547(LC 1), 21=-476(LC 1)

16-3-8

Max Grav All reactions 250 lb or less at joint(s) 18, 20, 19 except 33=925(LC 1), 24=4523(LC 1), 24=4523(LC 1)

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

TOP CHORD 2-3=-2807/0, 3-4=-2807/0, 4-5=-3273/0, 5-6=-3213/0, 6-7=-3151/0, 7-9=0/616,

9-10=0/616 10-11=0/5015 11-12=0/5015 12-13=0/699 13-14=0/694

BOT CHORD 32-33=0/1744, 31-32=0/3272, 30-31=0/3272, 29-30=0/3272, 27-29=0/1413, 26-27=0/1413,

25-26=-2700/0, 24-25=-2700/0, 23-24=-2286/0, 22-23=-2286/0

WEBS $11-24=-321/0,\ 10-24=-2995/0,\ 10-26=0/2825,\ 7-26=-2598/0,\ 7-29=0/2330,\ 6-29=-1612/0,\ 10-26=0/2825,\ 10-2$

5-29=-145/431, 12-24=-3530/0, 2-33=-1914/0, 2-32=0/1175, 12-23=0/877,

12-22=0/2099, 14-22=-940/0, 14-21=0/487, 4-32=-786/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 897 lb uplift at joint 23, 547 lb uplift at joint 22 and 476 lb uplift at joint 21.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1330 lb down at 10-9-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 18-33=-10, 1-17=-100 Concentrated Loads (lb) Vert: 6=-1250(F)



February 23,2021

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

Design Valid to its 80 mly with win New Commercials. This design is based only upon parameters shown, and is for an individual orusining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job	Truss	Truss Type	Qty	Ply	Lot 8 Spartan Ridge
					E15437649
J0221-0904	F4	Floor	2	1	
					Job Reference (optional)

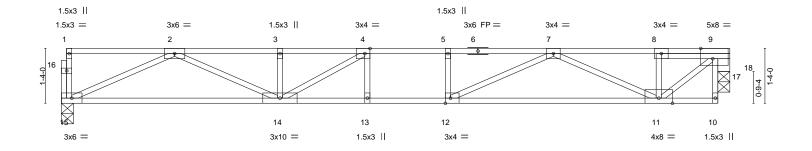
8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Feb 23 11:23:51 2021 Page 1 ID:Y_aRO?Cxglt9gUrlHW7gHdzqoOe-sdb42QVtt29UWwa53l9HpgP41zptBlpW5zrkZNziGjM





1-3-0

Scale = 1:28.0



						16-3-0					
Plate Offset	Plate Offsets (X,Y) [4:0-1-8,Edge], [9:0-3-8,Edge], [12:0-1-8,Edge]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.20 13-14	>970	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.25 11-12	>757	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.03 18	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	x-S					Weight: 84 lb	FT = 20%F, 11%E

16-3-0

LUMBER-TOP CHORD

2x4 SP No.1(flat) 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.3(flat) WFBS

OTHERS 4x4 SP No.2(flat) **BRACING-**

BOT CHORD

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

except end verticals.

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

REACTIONS. (size) 15=0-3-8, 18=0-3-8

Max Grav 15=868(LC 1), 18=861(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2577/0, 3-4=-2577/0, 4-5=-2848/0, 5-7=-2848/0, 7-8=-1040/0, 8-9=-1040/0 TOP CHORD

14-15=0/1620, 13-14=0/2848, 12-13=0/2848, 11-12=0/2214 **BOT CHORD**

WEBS $9\text{-}11\text{=}0/1289,\ 2\text{-}15\text{=}-1777/0,\ 2\text{-}14\text{=}0/1058,\ 3\text{-}14\text{=}-282/10,\ 7\text{-}11\text{=}-1298/0,\ 7\text{-}12\text{=}0/848,}$

4-14=-606/55. 9-18=-875/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.





Job	Truss	Truss Type	Qty	Ply	Lot 8 Spartan Ridge
					E15437650
J0221-0904	F5	Floor	1	1	
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Feb 23 11:23:52 2021 Page 1 ID:Y_aRO?Cxglt9gUrlHW7gHdzqoOe-Kq9SFmWVeMHL848HdSgWLuxB_N8FwCXgKdbH5pziGjL

16-3-8

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

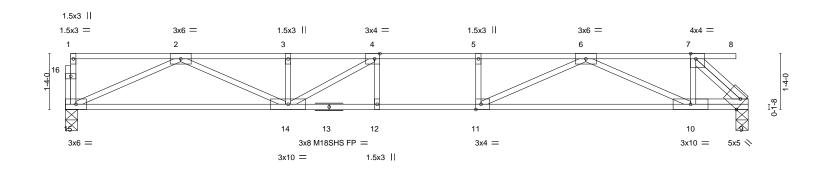
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0-1-8 2-6-0 $H \vdash$

2-0-0 2-3-8

Scale = 1:27.5



	7-6-0	<u>'</u>	1-1-12 1-1-12	6	6-6-0	<u> </u>
Plate Offsets (X,Y)	[4:0-1-8,Edge], [7:0-1-8,Edge], [9:Edge,	,0-3-0], [11:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.65	Vert(LL) -0.25 12-14	>761 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.89	Vert(CT) -0.32 12-14	>609 360	M18SHS	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.52	Horz(CT) 0.05 9	n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 83 lb	FT = 20%F, 11%E

BRACING-TOP CHORD

BOT CHORD

8-7-12

9-9-8

LUMBER-TOP CHORD

2x4 SP No.1(flat) **BOT CHORD** 2x4 SP No.1(flat)

2x4 SP No.3(flat) WFBS

REACTIONS. (size) 15=0-3-8, 9=0-3-8

Max Grav 15=880(LC 1), 9=862(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2631/0, 3-4=-2631/0, 4-5=-2908/0, 5-6=-2908/0, 6-7=-908/0 TOP CHORD **BOT CHORD** 14-15=0/1646, 12-14=0/2908, 11-12=0/2908, 10-11=0/2165, 9-10=0/909

7-6-0

WEBS 7-10=0/589, 7-9=-1225/0, 2-15=-1807/0, 2-14=0/1088, 3-14=-289/18, 6-10=-1389/0,

6-11=0/960, 5-11=-285/0, 4-14=-642/44

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.



February 23,2021



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

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

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



Job	Truss	Truss Type	Qty	Ply	Lot 8 Spartan Ridge
					E15437651
J0221-0904	F6	Floor	3	1	
					Job Reference (optional)
Comtech. Inc. Favette	ville. NC - 28314.			3.330 s Oc	t 7 2020 MiTek Industries, Inc. Tue Feb 23 11:23:53 2021 Page 1

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

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

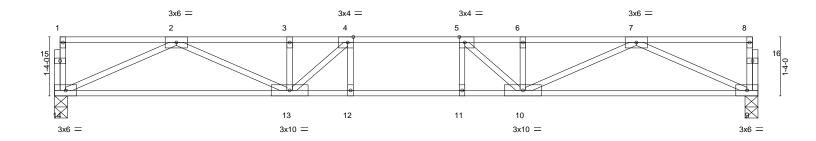
except end verticals.

0-1-8

 $H \vdash$

1-3-0 1-3-0

0-1-8 Scale = 1:26.0



				15-10-12	<u> </u>
Plate Offs	sets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,Edge]			
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.48	Vert(LL) -0.17 12-13 >999 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.71	Vert(CT) -0.22 12-13 >849 360	
BCLL	0.0	Rep Stress Incr YES	WB 0.48	Horz(CT) 0.04 9 n/a n/a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 80 lb FT = 20%F, 11%E

BRACING-TOP CHORD

BOT CHORD

15-10-12

LUMBER-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS.

(size) 14=0-3-8, 9=0-3-8 Max Grav 14=854(LC 1), 9=854(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2503/0, 3-4=-2503/0, 4-5=-2738/0, 5-6=-2503/0, 6-7=-2503/0 TOP CHORD

BOT CHORD WEBS 2-14=-1748/0, 2-13=0/1006, 7-9=-1748/0, 7-10=0/1006, 5-10=-599/29, 4-13=-599/29

13-14=0/1593, 12-13=0/2738, 11-12=0/2738, 10-11=0/2738, 9-10=0/1593

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



February 23,2021



Job	Truss	Truss Type	Qty	Ply	Lot 8 Spartan Ridge
					E15437652
J0221-0904	F7	Floor	8	1	
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Feb 23 11:23:54 2021 Page 1 ID:Y_aRO?Cxglt9gUrlHW7gHdzqoOe-GCHDgSYmAzX3NNlgktj_RJ0VGBs3O1wyox4O9iziGjJ

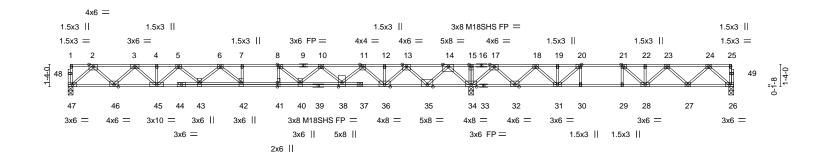
0-1-8

HI-3-0

2-0-8

2-4-8

0-1-8 Scale = 1:69.1



	24-2-0					15	5-9-0	
Plate Offsets (X,Y)	Plate Offsets (X,Y) [8:0-1-8,Edge], [20:0-1-8,Edge], [21:0-1-8,Edge], [41:0-3-0,0-0-0]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc) I/de	efl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.79	Vert(LL)	-0.38	42 >75	2 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.74	Vert(CT)	-0.52	42 >55	9 360	M18SHS	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.85	Horz(CT)	0.06	34 n	/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 222 lb	FT = 20%F, 11%E
	T. Control of the Con	1					1	

LUMBER-TOP CHORD

2x4 SP 2400F 2 0F(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat)

WFBS 2x4 SP No.3(flat)

BRACING-TOP CHORD

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

39-11-0

except end verticals.

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

REACTIONS.

BOT CHORD

(size) 47=0-3-8, 34=0-3-8, 26=0-3-8

Max Uplift 26=-9(LC 3)

Max Grav 47=1159(LC 3), 34=2662(LC 1), 26=725(LC 4)

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

TOP CHORD 2-3=-2191/0, 3-4=-3744/0, 4-5=-3744/0, 5-6=-4866/0, 6-7=-5296/0, 7-8=-5296/0, 8-10=-4832/0, 10-11=-3721/0, 11-12=-1983/85, 12-13=-1983/85, 13-14=0/997,

14-15=0/3786, 15-17=0/3786, 17-18=-149/2166, 18-19=-1325/1462, 19-20=-1325/1462,

24-2-0

20-21=-1908/812, 21-22=-1936/310, 22-23=-1936/310, 23-24=-1242/108

 $46 - 47 = 0/1269,\ 45 - 46 = 0/3068,\ 43 - 45 = 0/4424,\ 42 - 43 = 0/5202,\ 41 - 42 = 0/5296,\ 40 - 41 = 0$

38-40=0/4414, 36-38=0/2967, 35-36=-417/959, 34-35=-2150/0, 32-34=-2683/0,

31-32=-1777/852, 30-31=-812/1908, 29-30=-812/1908, 28-29=-812/1908,

27-28=-203/1689, 26-27=-30/774

WEBS 2-47=-1687/0, 2-46=0/1283, 3-46=-1219/0, 3-45=0/920, 5-45=-924/0, 5-43=0/599,

6-43=-474/0, 6-42=-345/475, 14-34=-2178/0, 14-35=0/1776, 13-35=-1735/0,

13-36=0/1444, 11-36=-1379/0, 11-38=0/1061, 10-38=-981/0, 10-40=0/691, 8-40=-1067/0,

8-41=-157/483. 17-34=-1626/0. 17-32=0/1262. 18-32=-1205/0. 18-31=0/835. 19-31=0/278, 20-31=-1430/0, 20-30=0/387, 24-26=-1028/40, 24-27=-109/652, 23-27=-621/131, 23-28=-145/336, 22-28=-324/0, 21-28=0/770, 21-29=-349/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 26.
- 6) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.



February 23,2021



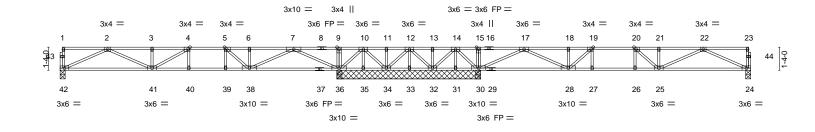
Job	Truss	Truss Type	Qty	Ply	Lot 8 Spartan Ridge
					E15437653
J0221-0904	F7A	Floor	1	1	
					Job Reference (optional)

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0-1-8

39-11-0

0-1,-8 Scale = 1:66.6



16-0-0					8-3-12						
Plate Offs	ets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,E	dge], [19:0-1-	-8,Edge], [20:	0-1-8,Edge]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.19 40-41	>996	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.26 40-41	>737	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.05 24	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matrix	k-S					Weight: 209 lb	FT = 20%F, 11%E

24-3-12

LUMBER-TOP CHORD

2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat) WFBS 2x4 SP No.3(flat) **BRACING-**

BOT CHORD

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

except end verticals.

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

REACTIONS. All bearings 8-3-12 except (jt=length) 42=0-3-8, 24=0-3-8.

16-0-0

(lb) -Max Uplift All uplift 100 lb or less at joint(s) 34, 33 except 35=-211(LC 9), 32=-188(LC 4), 31=-285(LC 4) Max Grav All reactions 250 lb or less at joint(s) 34, 33, 32, 31 except 42=762(LC 3), 36=1745(LC 3), 36=1734(LC 1), 30=1703(LC 7), 30=1694(LC 1), 24=743(LC 4)

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

TOP CHORD 2-3=-2141/0, 3-4=-2141/0, 4-5=-2108/0, 5-6=-1561/0, 6-7=-1561/0, 7-9=0/1388, $9 - 10 = 0/1382,\ 10 - 11 = 0/321,\ 11 - 12 = 0/321,\ 12 - 13 = 0/328,\ 13 - 14 = 0/328,\ 14 - 15 = 0/1405,$

15-17=0/1411, 17-18=-1530/0, 18-19=-1530/0, 19-20=-2020/0, 20-21=-2042/0,

21-22=-2042/0

BOT CHORD 41-42=0/1391, 40-41=0/2108, 39-40=0/2108, 38-39=0/2108, 36-38=0/398, 35-36=-674/0,

25-26=0/2020, 24-25=0/1351

WEBS 2-42=-1525/0, 2-41=0/830, 3-41=-294/0, 7-36=-1967/0, 7-38=0/1287, 5-38=-808/0,

10-36=-946/0, 10-34=0/504, 14-32=0/524, 14-31=-18/261, 14-30=-945/0, 17-30=-1915/0,

17-28=0/1234, 22-24=-1482/0, 22-25=0/763, 21-25=-261/0, 19-28=-735/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 34, 33 except (jt=lb) 35=211, 32=188, 31=285.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.



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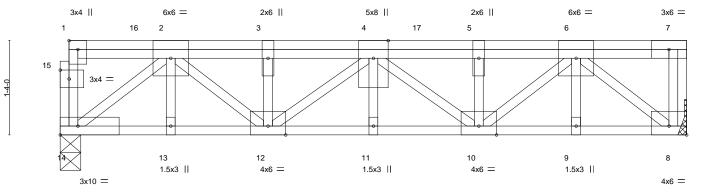


Job	Truss	Truss Type	Qty	Ply	Lot 8 Spartan Ridge
					E15437654
J0221-0904	FG1	Floor Girder	1	1	
					Joh Reference (ontional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Feb 23 11:23:58 2021 Page 1 ID:Y_aRO?Cxglt9gUrlHW7gHdzqoOe-9zWkWpbGEC2Vs?cRzjnwb9BIMoGiKwoYiY2clTziGjF



Scale = 1:16.3



8-10-4 [1:Edge.0-1-8], [8:Edge.0-1-8], [15:0-1-8.0-1-8]

_ Flate OII	Flate Offsets (A, 1) [1.Luge, 0-1-0], [0.Luge, 0-1-0], [10.0-1-0, 0-1-0]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.04	11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.06	11	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code IRC2015/TP	PI2014	Matri	x-P						Weight: 66 lb	FT = 20%F, 11%E

LUMBER-TOP CHORD

2x4 SP No 1(flat) 2x4 SP No.1(flat)

BOT CHORD WFBS

2x4 SP No.3(flat)

BRACING-

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

except end verticals.

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

REACTIONS. (size) 14=0-3-8, 8=Mechanical Max Grav 14=1475(LC 1), 8=1350(LC 1)

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

2-3=-2485/0, 3-4=-2485/0, 4-5=-2414/0, 5-6=-2414/0 TOP CHORD

BOT CHORD 13-14=0/1625, 12-13=0/1625, 11-12=0/2734, 10-11=0/2734, 9-10=0/1566, 8-9=0/1566 **WEBS** 2-14=-2067/0, 2-12=0/1119, 3-12=-500/0, 6-8=-2003/0, 6-10=0/1104, 5-10=-436/0,

4-10=-404/0. 4-12=-315/0

NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 473 lb down at 1-1-12, 471 lb down at 3-1-12, and 471 lb down at 5-1-12, and 471 lb down at 7-1-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 8-14=-10, 1-7=-100

Concentrated Loads (lb)

Vert: 3=-471(B) 6=-471(B) 16=-473(B) 17=-471(B)



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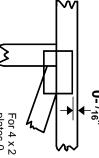


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

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

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

PLATE SIZE

4 × 4

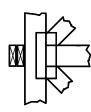
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



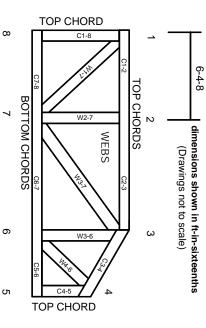
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

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

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

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- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

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- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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