

Trenco

818 Soundside Rd Edenton, NC 27932

Re: J0323-1275

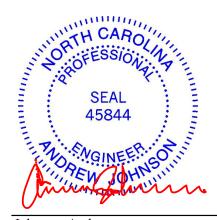
Precision/27 Liberty Meadows/Harnett

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: I57341282 thru I57341317

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



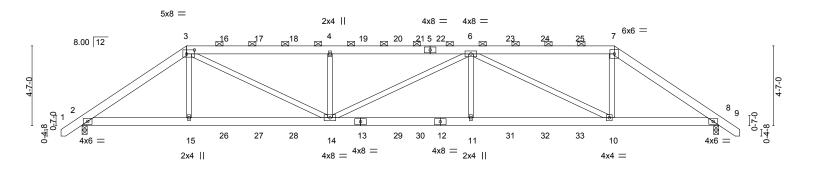
March 23,2023

Johnson, Andrew

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 Precision/27 Liberty Meadows/Harnett 157341282 J0323-1275 Α1 HIP GIRDER Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:31 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-PIXUjYWCPtNV46h1BJunquhGTmuZ1iGRQwWIMczY6dQ 37-9-8 1-2-8 1-2-8 1-2-8 6-0-0 8-2-15 8-1-3 8-2-15 6-0-0

Scale = 1:66.2



	6-0-0		14-2-15 8-2-15		22-4-1 8-1-3			30-7	-	36-7-0	
Plate Offs	ets (X,Y)	[3:0-5-8,0-2-12]	0-2-15			0-1-3		8-2-	15	6-0-0	
LOADING TCLL TCDL	(psf) 20.0 10.0	SPACING- Plate Grip DO Lumber DOL	2-0-0 L 1.15 1.15	_	0.36 0.50	DEFL. Vert(LL) Vert(CT)	in (loc) -0.15 11-14 -0.31 11-14	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0 * 10.0	Rep Stress In Code IRC201		WB Matrix-	0.90 -S	Horz(CT) Wind(LL)	0.08 8 0.17 11-14	n/a >999	n/a 240	Weight: 489 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SP No.1 TOP CHORD

BOT CHORD 2x6 SP No.1 **WEBS** 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=-114(LC 25)

Max Uplift 2=-653(LC 8), 8=-653(LC 9) Max Grav 2=2833(LC 1), 8=2833(LC 1)

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

TOP CHORD 2-3=-4582/1150, 3-4=-6352/1681, 4-6=-6351/1681, 6-7=-3751/991, 7-8=-4580/1148

BOT CHORD 2-15=-975/3684, 14-15=-974/3704, 11-14=-1652/6353, 10-11=-1652/6353,

8-10=-874/3682

WEBS 3-15=0/728, 3-14=-865/3006, 4-14=-993/579, 6-11=0/674, 6-10=-2969/860,

7-10=-359/1914

NOTES-

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 653 lb uplift at joint 2 and 653 lb uplift at ioint 8.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

2-0-0 oc purlins (6-0-0 max.): 3-7.

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

Continued on page 2

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

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

ANSI/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 Precision/27 Liberty Meadows/Harnett 157341282 J0323-1275 Α1 HIP GIRDER Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:32 2023 Page 2

Comtech, Inc, Fayetteville, NC - 28314,

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-uV5swuWgABVMiGGDI0P0N6ERDAEom9VafaFIv2zY6dP

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 137 lb down and 121 lb up at 6-0-0, 142 lb down and 118 lb up at 8-0-12, 142 lb down and 118 lb up at 10-0-12, 142 lb down and 118 lb up at 12-0-12, 142 lb down and 118 lb up at 14-0-12, 142 lb down and 118 lb up at 16-0-12, 142 lb down and 18 lb up at 16-0-12, 142 lb down and 18 lb up at 16-0-12, 142 lb down and 18 lb up at 16-0-12, 142 lb down and 18 lb up at 16-0-12, 142 lb down and 18 lb up at 16-0-12, 142 lb down and 18 lb up at 16-0-12, 142 lb down and 18 lb up at 16-0-12, 142 lb down and 18 lb up at 16-0-12, 142 lb down and 18 lb up at 16-0-12, 142 lb down and 18 lb up at 16-0-12, 142 lb down and 18 lb up at 16-0-12, 142 lb down and 18 lb up at 16-0-12, 142 lb down and 18 lb up at 16-0-12, 142 lb down and 18 lb up at 16-0-12, 142 lb down and 18 lb up at 16-0-12, 142 lb down and 18 lb up at 16-0-12, 142 lb down and 18 lb up at 16-0-12 lb up at 18 lb up at lb down and 118 lb up at 18-0-12, 142 lb down and 118 lb up at 18-6-4, 142 lb down and 118 lb up at 20-6-4, 142 lb down and 118 lb up at 22-6-4, 142 lb down and 118 lb up at 24-6-4, 142 lb down and 118 lb up at 26-6-4, and 142 lb down and 118 lb up at 28-6-4, and 137 lb down and 121 lb up at 30-7-0 on top chord, and 351 lb down and 123 lb up at 6-0-0, 76 lb down at 8-0-12, 76 lb down at 10-0-12, 76 lb down at 12-0-12, 76 lb down at 16-0-12, 76 lb down at 18-0-12, 76 lb down at 18-0 down at 18-6-4, 76 lb down at 20-6-4, 76 lb down at 22-6-4, 76 lb down at 22-6-4, 76 lb down at 24-6-4, 76 lb down at 26-6-4, and 351 lb down and 123 lb up at 30-6-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-60, 3-7=-60, 7-9=-60, 2-8=-20

Concentrated Loads (lb)

Vert: 3=-104(B) 7=-104(B) 13=-38(B) 15=-351(B) 14=-38(B) 4=-104(B) 11=-38(B) 10=-351(B) 6=-104(B) 12=-38(B) 16=-104(B) 17=-104(B) 18=-104(B) 19=-104(B) 20=-104(B) 21=-104(B) 22=-104(B) 23=-104(B) 24=-104(B) 25=-104(B) 26=-38(B) 27=-38(B) 27=-38(B) 29=-38(B) 30=-38(B) 31=-38(B) 32=-38(B) 32=-38(B)



Job Truss Truss Type Qty Ply Precision/27 Liberty Meadows/Harnett 157341283 J0323-1275 A2 HIP Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:33 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-MhfE8EXSxVdDJQrQlkwFwJmZmac9ViNktE?rRUzY6dO 8-0-0 8-0-0 28-7-0 36-7-0 37-9-8 1-2-8

10-3-8

10-3-8

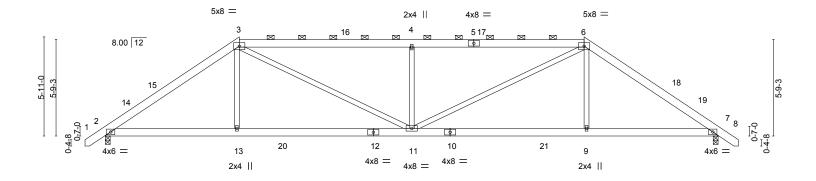
Scale = 1:68.8

8-0-0

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

2-0-0 oc purlins (4-2-15 max.): 3-6.

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



	8-0-0	18-3-8	28-7-0	36-7-0
	8-0-0	10-3-8	10-3-8	8-0-0
LOADING (psf) TCLL 20.0 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 IRC2015/TPI2014	TC 0.50 BC 0.36 WB 0.54	DEFL. in (loc) l/defl L/d /ert(LL) -0.10 11 >999 360 /ert(CT) -0.22 9-11 >999 240 /orz(CT) 0.06 7 n/a n/a Vind(LL) 0.08 11 >999 240	PLATES GRIP MT20 244/190 Weight: 241 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1

WEBS 2x4 SP No.2

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

Max Horz 2=-144(LC 10) Max Uplift 2=-55(LC 9), 7=-55(LC 8) Max Grav 2=1525(LC 1), 7=1525(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2234/504, 3-4=-2621/698, 4-6=-2620/697, 6-7=-2235/504 TOP CHORD **BOT CHORD** 2-13=-247/1741, 11-13=-250/1735, 9-11=-256/1737, 7-9=-253/1743 WEBS 3-13=0/400, 3-11=-226/1090, 4-11=-729/346, 6-11=-226/1088, 6-9=0/400

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 8-0-0, Exterior(2) 8-0-0 to 14-2-11, Interior(1) 14-2-11 to 28-7-0, Exterior(2) 28-7-0 to 34-9-11, Interior(1) 34-9-11 to 37-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 2 and 55 lb uplift at
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord



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

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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 Precision/27 Liberty Meadows/Harnett 157341284 J0323-1275 A3 HIP Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:35 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-l4n?ZwZiT6uxZk?oQ9yj?kstYNFazem0LYUyWNzY6dM

8-3-8

26-7-0

8-3-8

Scale = 1:68.8

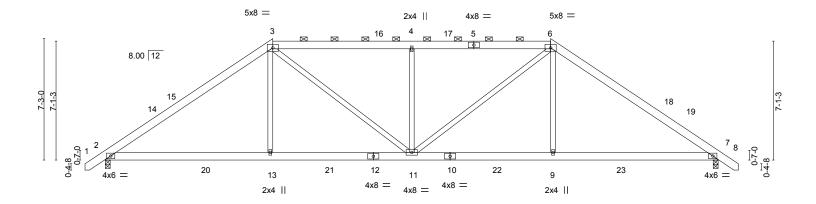
37-9-8 1-2-8

10-0-0

Structural wood sheathing directly applied or 4-1-5 oc purlins, except

2-0-0 oc purlins (5-0-0 max.): 3-6.

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



	10-0-0 10-0-0	18-3-8 8-3-8	26-7-0 8-3-8	36-7-0 10-0-0	
LOADING (psf) TCLL 20.0 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 IRC2015/TPI2014	TC 0.61 BC 0.49 WB 0.42	DEFL. in (loc) l/defl Vert(LL) -0.10 2-13 >999 Vert(CT) -0.19 2-13 >999 Horz(CT) 0.06 7 n/a Wind(LL) 0.06 2-13 >999	L/d PLATES GRIP 360 MT20 244/190 240 n/a 240 Weight: 246 lb FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x6 SP No.1 2x6 SP No.1

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

REACTIONS.

2=0-3-8, 7=0-3-8 (size) Max Horz 2=-176(LC 10)

Max Uplift 2=-50(LC 12), 7=-50(LC 13) Max Grav 2=1664(LC 2), 7=1664(LC 2)

10-0-0

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2419/486, 3-4=-2262/594, 4-6=-2261/593, 6-7=-2420/487 TOP CHORD **BOT CHORD** 2-13=-206/1891, 11-13=-208/1879, 9-11=-216/1880, 7-9=-214/1892 WEBS 3-13=0/613, 3-11=-176/655, 4-11=-564/255, 6-11=-176/653, 6-9=0/613

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 10-0-0, Exterior(2) 10-0-0 to 16-2-11, Interior(1) 16-2-11 to 26-7-0, Exterior(2) 26-7-0 to 32-9-11, Interior(1) 32-9-11 to 37-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 2 and 50 lb uplift at
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord



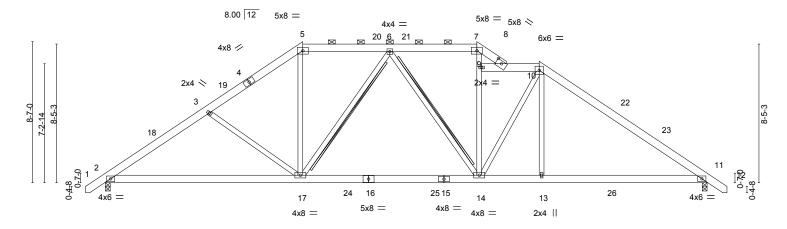


Job Truss Truss Type Qty Ply Precision/27 Liberty Meadows/Harnett 157341285 J0323-1275 A4 **ROOF SPECIAL** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:36 2023 Page 1

5-3-8

ID:3YJEg u8zX16RsP?VvW V6zd0wB-mGKNmFaLEQ0oBta? sTyXyO0Vnafi6FAZCDW2pzY6dL 24-4-8 26-4-8 1-9-8 2-0-0 36-7-0 22-7-0 5-3-8 10-2-8 1-2-8

Scale = 1:70.0



		12-0		+	10-7-0		3-9-8 0-2-0	36-7-0 10-0-8	
Plate Offs	sets (X,Y)	[8:0-4-0,0-2-0]		1					
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	-0.22 14-17	>999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.34 14-17	>999 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.06 11	n/a n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matrix-S	Wind(LL)	0.06 11-13	>999 240	Weight: 274 lb	FT = 20%

BRACING-LUMBER-

5-8-2

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1

2x4 SP No.2 **WEBS**

TOP CHORD

Structural wood sheathing directly applied or 4-3-12 oc purlins,

2-0-0 oc purlins (4-5-0 max.): 5-7, 9-10

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS** 2x4 SPF No.2 - 6-17, 6-14

Fasten (2X) T and I braces to narrow edge of web with 10d

(0.131"x3") nails, 6in o.c., with 3in minimum end distance.

Brace must cover 90% of web length.

REACTIONS. 2=0-3-8, 11=0-3-8 (size)

Max Horz 2=210(LC 11)

Max Uplift 2=-64(LC 12), 11=-79(LC 13) Max Grav 2=1525(LC 1), 11=1591(LC 2)

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

2-3=-2201/526, 3-5=-1970/485, 5-6=-1560/463, 6-7=-1722/497, 7-8=-1999/548, TOP CHORD

8-10=-1713/447, 10-11=-2269/479

2-17=-305/1849, 14-17=-191/1732, 13-14=-213/1765, 11-13=-212/1772 **BOT CHORD** 3-17=-408/238, 5-17=-105/777, 6-17=-389/173, 9-14=-71/371, 7-9=-162/732, **WEBS**

10-13=0/334

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 12-0-0, Exterior(2) 12-0-0 to 16-4-13, Interior(1) 16-4-13 to 22-7-0, Exterior(2) 22-7-0 to 24-4-8, Interior(1) 24-4-8 to 26-4-8, Exterior(2) 26-4-8 to 30-9-5, Interior(1) 30-9-5 to 37-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 2 and 79 lb uplift at ioint 11.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.





Job Truss Truss Type Qty Precision/27 Liberty Meadows/Harnett Ply 157341286 J0323-1275 A5 **ROOF SPECIAL** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:38 2023 Page 1

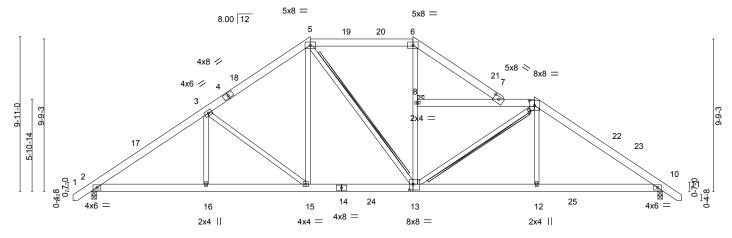
14-0-0 6-8-2

Comtech, Inc, Fayetteville, NC - 28314,

1-2-8

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Scale = 1:73.9



					28-4-8		
	7-3-13	14-0-0	20-7-0	26-4-8	26 ₁ 6-8 28 ₁ 6-8	36-7-0	1
	7-3-13	6-8-2	6-7-0	5-9-8	0-2-0 0-2-0	8-0-8	
					1-10-0		
[7.0	4 0 0 2 01 10:0 4 0 0 2 451	[40.0 0 40 0 4 0]					

Plate Offs	sets (X,Y)	[<i>1</i> :0-4-0,0-2-0], [9:0-4-0,0-3-15], [1	3:0-2-12,0-4-8]		
LOADING	\	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.99	Vert(LL) -0.14 13-15 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.25 13-15 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.70	Horz(CT) 0.06 10 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09 13 >999 240	Weight: 287 lb FT = 20%

LUMBER-

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 2x4 SP No.2 **WEBS**

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-2 oc purlins, except

2-0-0 oc purlins (2-2-0 max.): 5-6, 8-9. Rigid ceiling directly applied or 10-0-0 oc bracing.

BOT CHORD WEBS

2x4 SPF No.2 - 9-13, 5-13 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

Brace must cover 90% of web length.

JOINTS 1 Brace at Jt(s): 8

REACTIONS.

2=0-3-8, 10=0-3-8 (size) Max Horz 2=241(LC 11)

Max Uplift 2=-76(LC 12), 10=-90(LC 13) Max Grav 2=1525(LC 1), 10=1525(LC 1)

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

TOP CHORD 2-3=-2229/479, 3-5=-1740/503, 5-6=-1410/499, 6-7=-1721/497, 7-9=-1390/334,

BOT CHORD 2-16=-246/1844, 15-16=-246/1844, 13-15=-73/1411, 12-13=-265/1764, 10-12=-263/1769 **WEBS** 3-16=0/295, 3-15=-619/215, 5-15=-59/606, 8-13=0/398, 6-8=-49/557, 9-13=-520/208,

9-12=0/349, 5-13=-113/250

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 14-0-0, Exterior(2) 14-0-0 to 18-4-13, Interior(1) 18-4-13 to 20-7-0, Exterior(2) 20-7-0 to 24-11-13, Interior(1) 24-11-13 to 28-4-8, Exterior(2) 28-4-8 to 32-9-5, Interior(1) 32-9-5 to 37-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 2 and 90 lb uplift at joint 10.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



Job Truss Truss Type Qty Ply Precision/27 Liberty Meadows/Harnett 157341287 J0323-1275 A6 **ROOF SPECIAL** Job Reference (optional)

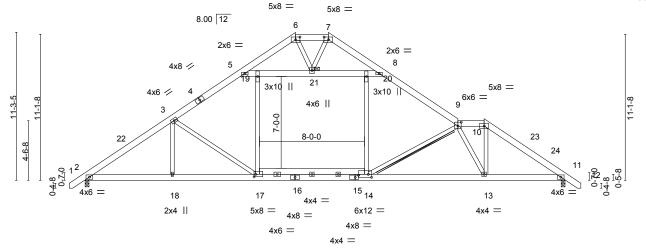
Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:40 2023 Page 1

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-f1aucddrleWDfVtmDiYuioZniOwbes?mUqBjBazY6dH

37-9-8 1-2-8 21-3-8 28-5-0 30-5-0 36-7-0 6-7-12 2-9-0 2-6-0 2-9-0 7-1-8 2-0-0 6-2-0

Scale = 1:87.8



	6-7-12	13-3-8	21-3-8	30-5-0	30-7-0	36-7-0	
Plate Offsets (X.Y)	[6:0-4-0,0-2-6], [7:0-4-0,0-2-6], [9:0-3-0	6-7-12 0-3-81 [14:0-3-0 0-2-12]	8-0-0 [15:0-3-0 0-2-0] [1	' 9-1-8 7:0-1-8 0-2-4]	0-2-0	6-0-0	
1 1010 0110010 (71,17)			[:0:0 0 0,0 2 0], [
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL)	-0.24 13-14 >999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT)	-0.39 13-14 >999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.61	Horz(CT)	0.06 11 n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.18 13-14 >999	240	Weight: 309 lb	FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1

WEBS 2x4 SP No.2 *Except* 5-8: 2x6 SP No.1

TOP CHORD

BOT CHORD

WEBS

JOINTS

Structural wood sheathing directly applied or 4-11-7 oc purlins,

2-0-0 oc purlins (5-9-6 max.): 6-7, 9-10 Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SPF No.2 - 9-14

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

Brace must cover 90% of web length.

1 Brace at Jt(s): 21

(size) 2=0-3-8, 11=0-3-8 REACTIONS.

Max Horz 2=272(LC 11)

Max Uplift 2=-85(LC 12), 11=-98(LC 13) Max Grav 2=1594(LC 19), 11=1552(LC 20)

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

TOP CHORD 2-3=-2339/435, 3-5=-1982/477, 5-6=-752/192, 6-7=-673/201, 7-8=-759/195,

8-9=-2017/464, 9-10=-1846/441, 10-11=-2342/452

BOT CHORD 2-18=-215/2027, 17-18=-215/2027, 14-17=-111/1688, 13-14=-340/2238, 11-13=-251/1836 WEBS 3-17=-492/195, 17-19=-21/593, 14-20=-12/707, 9-13=-952/222, 10-13=-112/1045,

9-14=-877/285, 5-19=-1122/365, 19-21=-1122/365, 20-21=-1061/355, 8-20=-1061/355,

6-21=-56/391, 7-21=-79/302

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 16-0-8, Exterior(2) 16-0-8 to 22-9-14, Interior(1) 22-9-14 to 30-5-0, Exterior(2) 30-5-0 to 34-9-13, Interior(1) 34-9-13 to 37-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 2 and 98 lb uplift at joint 11.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

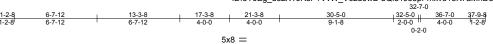
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Fayetteville, NC - 28314, Comtech, Inc.

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Scale = 1:92.4

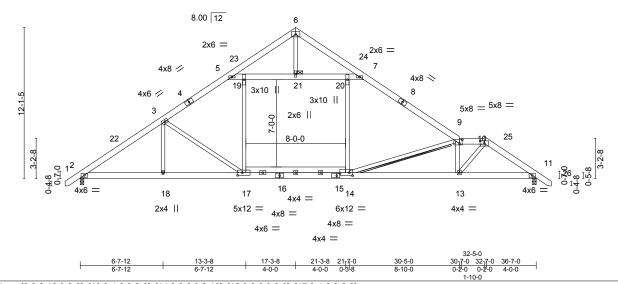


Plate Offsets	Plate Offsets (X,Y) [9:0-2-12,0-3-8], [10:0-4-0,0-2-6], [14:0-3-0,0-2-12], [15:0-3-0,0-2-0], [17:0-4-8,0-2-8]											
LOADING (p	sf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20	.Ó	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.30 13-14	>999	360	MT20	244/190	
TCDL 10	0.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.47 13-14	>934	240			
BCLL 0	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.07 11	n/a	n/a			
BCDL 10	.0	Code IRC2015/TF	PI2014	Matri	x-S	Wind(LL)	0.22 13-14	>999	240	Weight: 306 lb	FT = 20%	

LUMBER-BRACING-

2x6 SP No.1 TOP CHORD **BOT CHORD** 2x6 SP No.1 **WEBS**

2x4 SP No.2 *Except* 5-7: 2x6 SP No.1

TOP CHORD

JOINTS

2-0-0 oc purlins (4-7-10 max.): 9-10.

BOT CHORD

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

Fasten (2X) T and I braces to narrow edge of web with 10d

2x4 SPF No.2 - 9-14

Structural wood sheathing directly applied or 4-11-3 oc purlins,

(0.131"x3") nails, 6in o.c., with 3in minimum end distance.

Brace must cover 90% of web length. 1 Brace at Jt(s): 21

(size) 2=0-3-8, 11=0-3-8 REACTIONS.

Max Horz 2=-294(LC 10)

Max Uplift 2=-90(LC 12), 11=-102(LC 13) Max Grav 2=1611(LC 19), 11=1564(LC 20)

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

TOP CHORD 2-3=-2365/404, 3-5=-2055/454, 5-6=-720/137, 6-7=-746/136, 7-9=-2111/430,

9-10=-2856/559, 10-11=-2381/450

BOT CHORD 2-18=-184/2063, 17-18=-184/2063, 14-17=-97/1739, 13-14=-390/2769, 11-13=-261/1887 WEBS 3-17=-495/220, 9-13=-1025/288, 10-13=-246/1539, 9-14=-1289/325, 5-19=-1209/415,

19-21=-1209/415, 20-21=-1209/415, 7-20=-1209/415, 17-19=-21/588, 14-20=0/686,

6-21=0/467

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 17-3-8, Exterior(2) 17-3-8 to 21-8-5, Interior(1) 21-8-5 to 32-5-0, Exterior(2) 32-5-0 to 36-9-13, Interior(1) 36-9-13 to 37-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 2 and 102 lb uplift at
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



Job Truss Truss Type Qty Ply Precision/27 Liberty Meadows/Harnett 157341289 J0323-1275 **A8** ROOF SPECIAL GIRDER Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:44 2023 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-XopOS_gMLt0f86BXSXdqsejTk0G8aaKLPS9xKMzY6dD

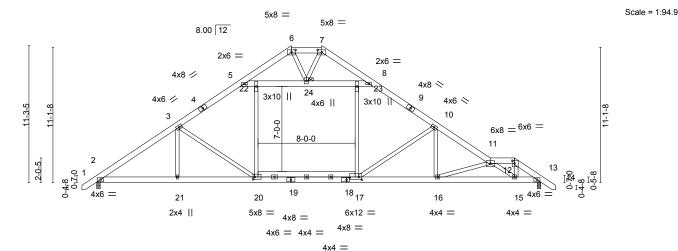
Structural wood sheathing directly applied or 4-8-2 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 6-7, 11-12.

1 Brace at Jt(s): 24

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

34-5-0 36-7-0 37-9-6 2-0-0 2-2-0 1-2-8 27-11-4 6-7-12 18-6-8 21-3-8 2-6-0 2-9-0 32-5-0 4-5-12



					21-7-0			36-7-0	
-	6-7-12	13-3-8	16-0-8	18-6-8	21-3-8	27-11-4	34-5-0	34 ₁ 7-0	ı
-	6-7-12	6-7-12	2-9-0	2-6-0	2-9-0 0-3-8	6-4-4	6-5-12	0-2-0	i
								2-0-0	

BRACING-

TOP CHORD

BOT CHORD

JOINTS

Plate Offsets (X,Y)	Plate Offsets (X,Y) [6:0-4-0,0-2-6], [7:0-4-0,0-2-6], [12:0-2-4,0-2-12], [17:0-3-0,0-2-12], [18:0-3-0,0-2-0], [20:0-1-8,0-2-4]										
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP							
TCLL 20.0	Plate Grip DOL 1.15	TC 0.39	Vert(LL) -0.22 16-17 >999 360	MT20 244/190							
TCDL 10.0	Lumber DOL 1.15	BC 0.72	Vert(CT) -0.36 16-17 >999 240								
BCLL 0.0 *	Rep Stress Incr NO	WB 0.97	Horz(CT) 0.07 13 n/a n/a								
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.17 16-17 >999 240	Weight: 315 lb FT = 20%							

LUMBER-

2x6 SP No.1 TOP CHORD **BOT CHORD** 2x6 SP No.1 **WEBS**

2x4 SP No.2 *Except* 5-8: 2x6 SP No.1

REACTIONS. (size) 2=0-3-8, 13=0-3-8 Max Horz 2=273(LC 26)

Max Uplift 2=-86(LC 8), 13=-101(LC 9) Max Grav 2=1595(LC 33), 13=1563(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2343/123, 3-5=-1978/151, 5-6=-770/54, 6-7=-692/60, 7-8=-762/57, 8-10=-2021/142, 10-11=-2742/161, 11-12=-1683/79, 12-13=-2245/74

BOT CHORD $2-21 = -135/2030,\ 20-21 = -135/2030,\ 17-20 = 0/1686,\ 16-17 = -21/2238,\ 15-16 = -133/3325,$

13-15=-12/1770 WEBS

3-20=-491/192, 20-22=0/593, 17-23=0/736, 11-15=-2041/152, 12-15=0/1156,

10-17=-920/208, 10-16=0/565, 11-16=-1155/118, 5-22=-1086/173, 22-24=-1086/173,

23-24=-1050/168, 8-23=-1050/168, 7-24=-71/303, 6-24=-60/399

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 2 and 101 lb uplift at joint 13.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 36 lb up at 34-5-0 on top chord, and 10 lb down at 34-5-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

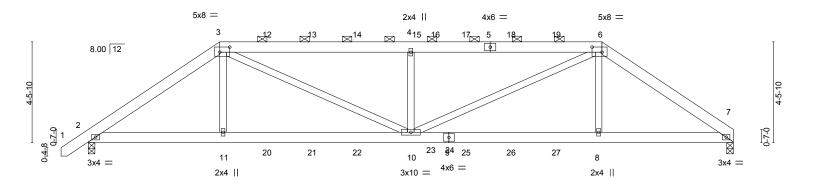
Vert: 1-6=-60, 6-7=-60, 7-11=-60, 11-12=-60, 12-14=-60, 2-13=-20





Job Truss Truss Type Qty Ply Precision/27 Liberty Meadows/Harnett 157341290 J0323-1275 **B1** HIP GIRDER Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:46 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-TBx9sghctUGNNQKwZyflx3prRp3a2fgetme1OEzY6dB 5-10-0 8-5-12 8-5-12 5-10-0

Scale = 1:51.1



	-	5-10-0		14-3-12		1		22-9			28-7-8	
Plate Offsets	(X Y) [3	5-10-0 :0-5-4,0-2-12], [6:0-5-4	0-2-121	8-5-12				8-5-1	12		5-10-0	<u> </u>
Tiate Checte	(71,1)	.0 0 1,0 2 12], [0.0 0 1	,0 2 12]									
LOADING (p	osf)	SPACING-	2-0-0	CSI.		DEFL.	in (l	oc)	I/defl	L/d	PLATES	GRIP
TCLL 20	0.0	Plate Grip DOL	1.15	TC 0.32	\	/ert(LL)	-0.07	10	>999	360	MT20	244/190
TCDL 10	0.0	Lumber DOL	1.15	BC 0.28	\	/ert(CT)	-0.13 10-	-11	>999	240		
BCLL (0.0 *	Rep Stress Incr	NO	WB 0.21	H	Horz(CT)	0.04	7	n/a	n/a		
BCDL 10	0.0	Code IRC2015/TF	PI2014	Matrix-S	\	Vind(LL)	0.07	10	>999	240	Weight: 372 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1

2x4 SP No.2 **WEBS**

REACTIONS. (size) 7=0-3-8, 2=0-3-8 Max Horz 2=106(LC 24)

Max Uplift 7=-483(LC 9), 2=-501(LC 8) Max Grav 7=2100(LC 1), 2=2177(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-3447/843, 3-4=-4284/1127, 4-6=-4285/1127, 6-7=-3431/844 TOP CHORD **BOT CHORD** 2-11=-732/2755, 10-11=-731/2776, 8-10=-646/2782, 7-8=-647/2761 WFBS 3-11=0/714, 3-10=-536/1723, 4-10=-1085/640, 6-10=-536/1720, 6-8=0/716

NOTES-

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

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

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60

5) Provide adequate drainage to prevent water ponding.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 483 lb uplift at joint 7 and 501 lb uplift at ioint 2.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 134 lb down and 118 lb up at 5-10-0, 139 lb down and 115 lb up at 7-10-12, 139 lb down and 115 lb up at 9-10-12, 139 lb down and 115 lb up at 11-10-12, 139 lb down and 115 lb up at 13-10-12, 139 lb down and 115 lb up at 14-8-12, 139 lb down and 115 lb up at 16-8-12, 139 lb down and 115 lb up at 18-8-12, and 139 lb down and 115 lb up at 20-8-12, and 134 lb down and 118 lb up at 22-9-8 on top chord, and 329 lb down and 119 lb up at 5-10-0, 73 lb down at 7-10-12, 73 lb down at 9-10-12, 73 lb down at 11-10-12, 73 lb down at 13-10-12, 73 lb down at 14-8-12, 73 lb down at 16-8-12, 73 lb down at 18-8-12, and 73 lb down at 20-8-12, and 329 lb down and 119 lb up at 22-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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

2-0-0 oc purlins (6-0-0 max.): 3-6.

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

March 23,2023

LOAD CASE(S) Standard

Continued on page 2

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

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



Job Truss Truss Type Qty Ply Precision/27 Liberty Meadows/Harnett 157341290 J0323-1275 В1 HIP GIRDER **Z** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:47 2023 Page 2

Comtech, Inc, Fayetteville, NC - 28314,

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-60, 3-6=-60, 6-7=-60, 2-7=-20

Concentrated Loads (lb)

Vert: 3=-99(F) 6=-99(F) 11=-329(F) 8=-329(F) 12=-99(F) 13=-99(F) 14=-99(F) 15=-99(F) 16=-99(F) 17=-99(F) 18=-99(F) 19=-99(F) 20=-36(F) 21=-36(F) 22=-36(F)

23=-36(F) 24=-36(F) 25=-36(F) 26=-36(F) 27=-36(F)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Precision/27 Liberty Meadows/Harnett 157341291 J0323-1275 B2 ROOF SPECIAL GIRDER Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:49 2023 Page 1 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-umdHVikUAPeyEt3VE5C?ZhRle10kFsi4Zjti?ZzY6d8

6-5-12

20-9-8

6-5-12

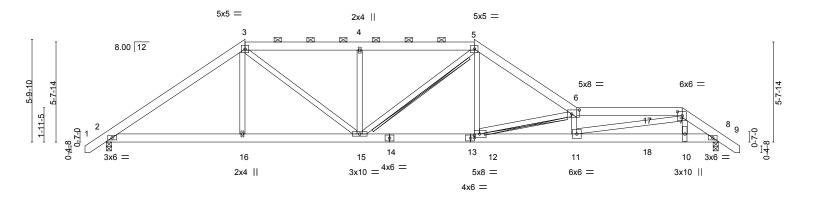
Scale = 1:65.1

34-7-0 35-9-8 2-0-8 1-2-8

32-6-8

5-11-8

5-9-8



		7-10-0	1	14-3-12	20-9-8	26	5-7-0	32-6-8	34-7-0
	-	7-10-0	ı	6-5-12	6-5-12	5-	-9-8	5-11-8	2-0-8
Plate Offsets (X	,Y)	[6:0-5-4,0-2-12], [7:0-3-4,0-	2-12], [12:0-	-3-8,0-2-8], [13:0-2-8	3,0-2-0]				
LOADING (psf))	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/	defl L/d	PLATES	GRIP
TCLL 20.0)	Plate Grip DOL	1.15	TC 0.51	Vert(LL)	-0.26 11-12 >	999 360	MT20	244/190
TCDL 10.0)	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.53 11-12 >	776 240		
BCLL 0.0) *	Rep Stress Incr	NO	WB 0.83	Horz(CT)	0.07 8	n/a n/a		
BCDL 10.0)	Code IRC2015/TPI2	014	Matrix-S	Wind(LL)	0.18 11-12 >	999 240	Weight: 242 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.1 *Except*

8-13: 2x6 SP 2400F 2.0E

2x4 SP No.2 WEBS

BRACING-

BOT CHORD

WEBS

TOP CHORD

Structural wood sheathing directly applied or 4-5-1 oc purlins, except

2-0-0 oc purlins (3-1-1 max.): 3-5, 6-7. Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SPF No.2 - 5-15, 6-12

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

Brace must cover 90% of web length.

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

Max Horz 2=142(LC 26)

Max Uplift 2=-39(LC 8), 8=-93(LC 9) Max Grav 2=1445(LC 1), 8=1445(LC 1)

7-10-0

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

TOP CHORD 2-3=-2078/53, 3-4=-2225/85, 4-5=-2225/85, 5-6=-2717/82, 6-7=-5290/211, 7-8=-2543/104

BOT CHORD 2-16=-78/1610, 15-16=-80/1605, 12-15=0/2203, 11-12=-136/5193, 10-11=-48/1988,

8-10=-42/2029

WEBS 3-16=0/325, 3-15=-138/880, 4-15=-451/161, 5-12=0/1051, 6-12=-3058/216,

6-11=-971/107, 7-11=-102/3398, 7-10=0/463

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 2 and 93 lb uplift at ioint 8.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 27 lb up at 30-5-12, and 132 lb down and 62 lb up at 32-6-8 on top chord, and 6 lb down at 30-5-12, and 15 lb down at 32-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



March 23,2023

Continued on page 2

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

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent 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	Precision/27 Liberty Meadows/Harnett
J0323-1275	B2	ROOF SPECIAL GIRDER	1	1	Is734129

Fayetteville, NC - 28314, Comtech, Inc,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:49 2023 Page 2 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-umdHVikUAPeyEt3VE5C?ZhRle10kFsi4Zjti?ZzY6d8

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 5-6=-60, 6-7=-60, 7-9=-60, 2-8=-20



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Precision/27 Liberty Meadows/Harnett 157341292 J0323-1275 **B3 ROOF SPECIAL** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:50 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-MyBgi2k7xjmos1ehoojE6vzSfQMz_PEEnNcFX?zY6d7

8-11-8

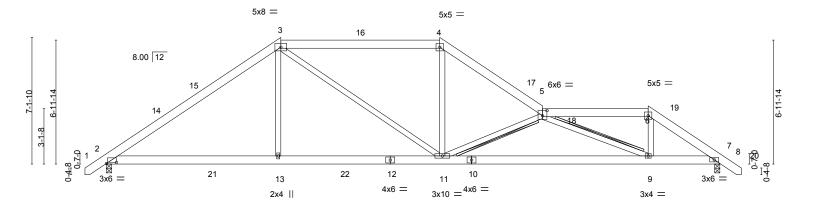
Scale = 1:64.9

1-2-8

34-7-0

4-0-8

5-11-8



)	34-7-0		6-8	30-0			1	18-9-8			9-10-0		
	4-0-8		9-0	11-9				8-11-8			9-10-0		
),0-3-8]	2:0-6-12,0-0-13], [5:0-3-0	ts (X,Y) [Plate Offs
		T											
GRIP	TES (PLATES	L/d	I/defl	(loc)	in	DEFL.		CSI.	2-0-0	SPACING-	(psf)	OADING
244/190	.0 :	MT20	360	>999	9-11	-0.13	Vert(LL)	0.56	TC	1.15	Plate Grip DOL	20.0	CLL
			240	>999	9-11	-0.32	Vert(CT)	0.57	BC	1.15	Lumber DOL	10.0	CDL
			n/a	n/a	7	0.07	Horz(CT)	0.50	WB	YES	Rep Stress Incr	0.0 *	CLL
FT = 20%	ght: 235 lb	Weight: 2	240	>999	9-11	0.08	Wind(LL)	<-S	Matrix	212014	Code IRC2015/TF	10.0	CDL
	ght: 235 lb	Weight: 2			9-11		. ,			-			

LUMBER-**BRACING-**2x6 SP No.1

TOP CHORD 2x6 SP No.1 **BOT CHORD WEBS** 2x4 SP No.2

BOT CHORD WEBS

TOP CHORD Structural wood sheathing directly applied or 4-6-10 oc purlins,

24-7-0

5-9-8

2-0-0 oc purlins (5-1-5 max.): 3-4, 5-6. Rigid ceiling directly applied or 9-1-5 oc bracing.

2x4 SPF No.2 - 5-11, 5-9

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

Brace must cover 90% of web length.

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

Max Horz 2=-173(LC 10)

Max Uplift 2=-51(LC 12), 7=-96(LC 13) Max Grav 2=1505(LC 2), 7=1445(LC 1)

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

9-10-0

TOP CHORD 2-3=-2149/449, 3-4=-1823/526, 4-5=-2271/561, 5-6=-1772/419, 6-7=-2282/458**BOT CHORD**

2-13=-180/1670, 11-13=-182/1658, 9-11=-736/3460, 7-9=-265/1823 3-13=0/613, 3-11=-100/504, 4-11=-79/842, 5-11=-1798/567, 5-9=-1848/522, WFBS

6-9=-86/950

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf, BCDL=6.0psf, h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 9-10-0, Exterior(2) 9-10-0 to 14-2-13, Interior(1) 14-2-13 to 18-9-8, Exterior(2) 18-9-8 to 23-2-5, Interior(1) 23-2-5 to 30-6-8, Exterior(2) 30-6-8 to 34-11-5, Interior(1) 34-11-5 to 35-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 2 and 96 lb uplift at joint 7.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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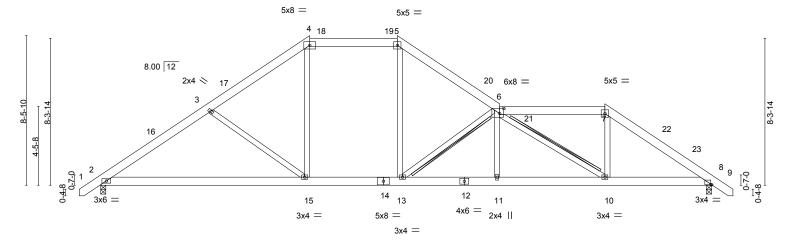


Job Truss Truss Type Qty Precision/27 Liberty Meadows/Harnett 157341293 J0323-1275 B4 **ROOF SPECIAL** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:51 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-q9k2wOlli0vfUBDtMWFTe6WhnqfkjtlN01Mo4SzY6d6

34-7-0 22-7-0 28-6-8 6-2-14 5-7-3 4-11-8 5-9-8 5-11-8 6-0-8 1-2-8

Scale = 1:65.2



⊢	11-10-0 11-10-0	16-9-8 4-11-8	22-7-0 5-9-8	28-6-8 5-11-8	34-7-0 6-0-8
Plate Offsets (X,Y)	[6:0-2-12,0-3-8], [8:0-0-9,0-0-2]				
LOADING (psf) TCLL 20.0 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 IRC2015/TPI2014	CSI. TC 0.28 BC 0.72 WB 0.41 Matrix-S	DEFL. in (loc) Vert(LL) -0.24 11-13 Vert(CT) -0.40 11-13 Horz(CT) 0.06 8 Wind(LL) 0.17 11-13		PLATES GRIP MT20 244/190 Weight: 244 lb FT = 20%

BRACING-LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1

2x4 SP No.2 **WEBS**

TOP CHORD

Structural wood sheathing directly applied or 5-2-13 oc purlins,

2-0-0 oc purlins (5-10-12 max.): 4-5, 6-7 Rigid ceiling directly applied or 10-0-0 oc bracing.

BOT CHORD WEBS 2x4 SPF No.2 - 6-13, 6-10

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

Brace must cover 90% of web length.

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

Max Horz 2=205(LC 11)

Max Uplift 2=-64(LC 12), 8=-105(LC 13) Max Grav 2=1445(LC 1), 8=1445(LC 1)

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

TOP CHORD 2-3=-2081/517, 3-4=-1826/490, 4-5=-1461/471, 5-6=-1871/506, 6-7=-1658/453,

BOT CHORD 2-15=-294/1741, 13-15=-120/1480, 11-13=-476/2661, 10-11=-478/2654, 8-10=-263/1687

WEBS 3-15=-366/214, 4-15=-60/610, 5-13=-146/818, 6-13=-1508/446, 6-11=0/290,

6-10=-1216/271, 7-10=-80/807

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 11-10-0, Exterior(2) 11-10-0 to 16-2-13, Interior(1) 16-2-13 to 16-9-8, Exterior(2) 16-9-8 to 21-2-5, Interior(1) 21-2-5 to 28-6-8, Exterior(2) 28-6-8 to 32-11-5, Interior(1) 32-11-5 to 35-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 2 and 105 lb uplift at ioint 8.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

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Job Truss Truss Type Qty Ply Precision/27 Liberty Meadows/Harnett 157341294 J0323-1275 B5 **ROOF SPECIAL** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:53 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-mXsoK3n?Ee9NjVNGTwHxjXb0KePzBf6gULrv8KzY6d4 34-7-0 20-7-0 7-2-14 7-2-14 26-6-8 14-9-8

5-9-8

5-11-8

6-7-3

Scale = 1:66.6

8-0-8

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

2-0-0 oc purlins (5-3-2 max.): 5-6, 7-8.

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

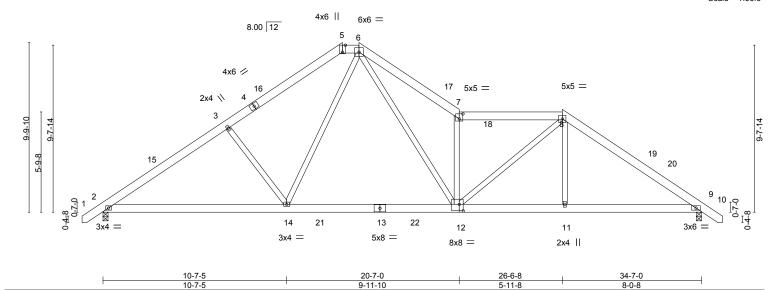


Plate Offsets (X,Y)	[5:0-4-13,Edge], [7:0-2-8,0-3-8], [12:0-2	-12,0-4-8]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.34	Vert(LL) -0.22 12-14 >999 360	MT20 244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.48 WB 0.93	Vert(CT) -0.36 12-14 >999 240 Horz(CT) 0.05 9 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09 12-14 >999 240	Weight: 248 lb FT = 20%
BCDL 10.0	Code 11(02015/11 12014	Wattix-5	Willd(LL) 0.09 12-14 7999 240	Weight. 240 lb 1 1 - 2070

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WEBS

TOP CHORD 2x6 SP No.1 BOT CHORD

2x6 SP No.1 2x4 SP No.2

> (size) 2=0-3-8, 9=0-3-8 Max Horz 2=237(LC 11)

Max Uplift 2=-75(LC 12), 9=-112(LC 13) Max Grav 2=1461(LC 19), 9=1445(LC 1)

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

2-3=-2074/448, 3-5=-1866/484, 5-6=-1544/480, 6-7=-2712/753, 7-8=-2168/541, TOP CHORD

8-9=-2067/449

2-14=-226/1774, 12-14=-45/1312, 11-12=-208/1594, 9-11=-207/1599 BOT CHORD

WEBS 3-14=-364/250, 6-14=-81/696, 6-12=-463/1767, 7-12=-1787/570, 8-12=-124/879,

8-11=0/301

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 13-10-0, Exterior(2) 13-10-0 to 19-2-5, Interior(1) 19-2-5 to 26-6-8, Exterior(2) 26-6-8 to 30-11-5, Interior(1) 30-11-5 to 35-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 2 and 112 lb uplift at
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

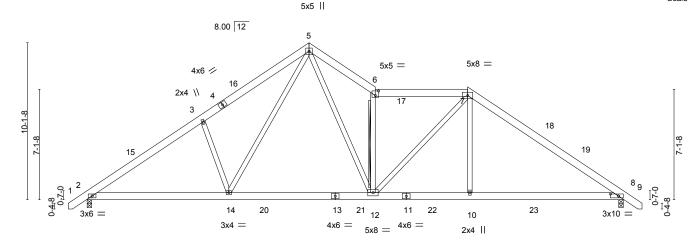






ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-EjQAYPod?xHELeyS1eoAGl87?2kJwACpi?aTgnzY6d3 35-9-8 1-2-8 24-6-8 7-5-11 7-5-11 6-10-1 4-3-4 5-11-8 10-0-8

Scale = 1:74.3



		9-1-			9-5-5		5-11-8		10-0-		
Plate Offse	ets (X,Y)	[6:0-2-8,0-3-8], [8:0-6-3,0)-1-8]								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl l	_/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.18 12-14	>999 3	60	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.28 12-14	>999 2	40		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.05 8	n/a ı	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	k- S	Wind(LL)	0.06 8-10	>999 2	40	Weight: 253 lb	FT = 20%

BRACING-LUMBER-

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 **WEBS**

TOP CHORD

WEBS

Structural wood sheathing directly applied or 4-3-8 oc purlins, except

2-0-0 oc purlins (5-5-7 max.): 6-7.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 - 6-12 T-Brace:

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

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

Max Horz 2=246(LC 11)

Max Uplift 2=-78(LC 12), 8=-113(LC 13) Max Grav 2=1551(LC 19), 8=1599(LC 20)

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

TOP CHORD 2-3=-2273/436, 3-5=-2172/553, 5-6=-2397/642, 6-7=-2005/485, 7-8=-2243/428

BOT CHORD 2-14=-211/1950, 12-14=-30/1420, 10-12=-161/1757, 8-10=-160/1766

WEBS 3-14=-477/288, 5-14=-181/837, 5-12=-371/1629, 6-12=-1501/461, 7-12=-56/452,

7-10=0/507

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 14-3-12, Exterior(2) 14-3-12 to 18-7-0, Interior(1) 18-7-0 to 24-6-8, Exterior(2) 24-6-8 to 28-11-5, Interior(1) 28-11-5 to 35-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 2 and 113 lb uplift at ioint 8.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



March 23,2023

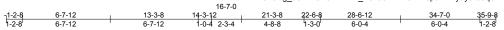




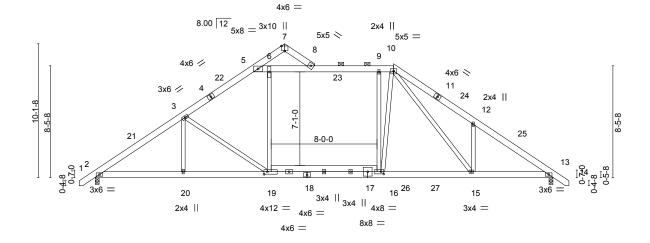
Fayetteville, NC - 28314, Comtech, Inc.

ID:3YJEg u8zX16RsP?VvW V6zd0wB-B6Yxz5ptWZXyay5r93qeLADRCrMTO8d6AJ3ZlfzY6d1

Structural wood sheathing directly applied or 4-1-5 oc purlins, except



Scale = 1:87.0



	6-7-12	13-3-8	16-7-0 21-3-8	3 21 _T 7-0	34-7-0	
	6-7-12	6-7-12	3-3-8 4-8-8	0-3 ^l -8	13-0-0	1
Plate Offsets (X,Y) [7:0-3-0,Edg	e], [16:0-2-8,0-2-0], [19:0	-3-0,0-2-4]				
TCDL 10.0 Lumb BCLL 0.0 * Rep S	EING- 2-0-0 Grip DOL 1.15 er DOL 1.15 ttress Incr YES IRC2015/TPI2014	CSI. TC 0.75 BC 0.75 WB 0.44 Matrix-S	DEFL. Vert(LL) Vert(CT Horz(CT Wind(LL	0.06 13	n/a n/a	PLATES GRIP MT20 244/190 Weight: 283 lb FT = 20%

BRACING-

TOP CHORD

LUMBER-

2x6 SP No.1 TOP CHORD

BOT CHORD 2x6 SP No.1 2-0-0 oc purlins (5-4-1 max.): 5-10. **WEBS** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 13=0-3-8 Max Horz 2=246(LC 11)

Max Uplift 2=-78(LC 12), 13=-113(LC 13) Max Grav 2=1561(LC 19), 13=1581(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2239/411, 3-5=-1946/447, 5-6=-1615/445, 6-8=-1615/445, 8-9=-1679/451, TOP CHORD

9-10=-1683/456, 10-12=-2406/617, 12-13=-2399/437

BOT CHORD 2-20=-199/1908, 19-20=-199/1908, 16-19=-101/1743, 15-16=-90/1645, 13-15=-239/1893

WEBS 6-19=0/503, 9-16=-313/274, 3-19=-414/204, 12-15=-392/265, 10-15=-249/681,

10-16=-235/679

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 14-3-12, Exterior(2) 14-3-12 to 16-7-0, Interior(1) 16-7-0 to 22-6-8, Exterior(2) 22-6-8 to 26-11-5, Interior(1) 26-11-5 to 35-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 2 and 113 lb uplift at
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





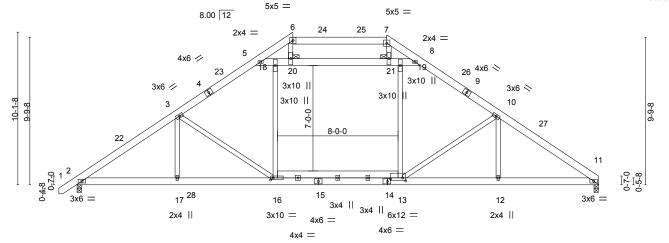


Comtech, Inc, Fayetteville, NC - 28314,

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-7VghOnr82AngpGFDGUt6QbJvSf2Us_1PddZgqYzY6d?

20-6-8 7-6-4 5-11-8 7-4-12 6-7-12

Scale = 1:76.4



	6-7-12	13-3-8 14-7-0	20-6-8	27-11-4	34-7-0	
	6-7-12	6-7-12 ¹ 1-3-8	5-11-8	7-4-12	6-7-12	
Plate Offsets (X,Y)	[13:0-2-8,0-2-4], [14:0-2-8,0-2-0], [16	5:0-2-0,0-1-8]				
LOADING (psf) TCLL 20.0 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 IRC2015/TPI2014	CSI. TC 0.25 BC 0.72 WB 0.70 Matrix-S	Vert(CT) Horz(CT)	in (loc) l/defl L/d -0.24 16-17 >999 360 -0.28 16-17 >999 240 0.06 11 n/a n/a 0.12 12-13 >999 240	PLATES MT20 Weight: 284 lb	GRIP 244/190 FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1

WEBS 2x4 SP No.2 *Except* 5-8: 2x6 SP No.1

BRACING-TOP CHORD

Structural wood sheathing directly applied or 4-9-15 oc purlins,

2-0-0 oc purlins (6-0-0 max.): 6-7. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing

JOINTS 1 Brace at Jt(s): 20, 21

REACTIONS. (size) 2=0-3-8, 11=0-3-8

Max Horz 2=234(LC 9)

Max Uplift 2=-78(LC 12), 11=-59(LC 13) Max Grav 2=1673(LC 19), 11=1495(LC 20)

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

TOP CHORD 2-3=-2540/436, 3-5=-1997/454, 5-6=-1189/292, 6-7=-974/272, 7-8=-1265/300,

8-10=-1962/462, 10-11=-2279/447

BOT CHORD 2-17=-259/2169, 16-17=-259/2169, 13-16=-119/1620, 12-13=-263/1798, 11-12=-263/1798 **WEBS**

3-17=0/314, 16-18=-14/763, 13-19=-25/607, 3-16=-668/190, 10-12=0/261,

10-13=-547/195, 5-18=-620/210, 18-20=-620/210, 20-21=-652/212, 19-21=-608/213,

8-19=-608/213, 6-20=-16/444, 7-21=-20/528

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 14-3-12, Exterior(2) 14-3-12 to 18-8-9, Interior(1) 18-8-9 to 20-6-8, Exterior(2) 20-6-8 to 24-11-5, Interior(1) 24-11-5 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 2 and 59 lb uplift at ioint 11.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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 Precision/27 Liberty Meadows/Harnett 157341298 J0323-1275 C1SG **GABLE** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:59 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:3YJEg u8zX16RsP?VvW V6zd0wB-bhD3b7rmpUvXRQqQqBOLzor4v3YJbbLZsHIEM zY6d 11-2-8 5-0-0 5-0-0 1-2-8

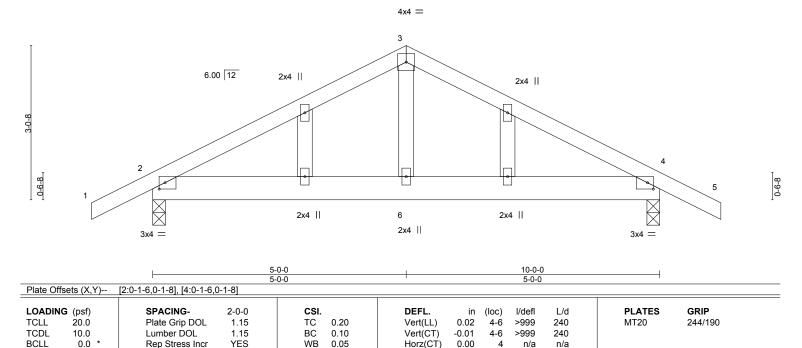
Scale = 1:22.7

FT = 20%

Weight: 52 lb

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

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



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

TOP CHORD 2x4 SP No.1 BOT CHORD 2x6 SP No.1 **WEBS** 2x4 SP No.2 **OTHERS** 2x4 SP No.2

10.0

REACTIONS.

(size) 2=0-3-0, 4=0-3-0 Max Horz 2=63(LC 16)

Max Uplift 2=-121(LC 9), 4=-121(LC 8) Max Grav 2=470(LC 1), 4=470(LC 1)

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

Code IRC2015/TPI2014

TOP CHORD 2-3=-515/590, 3-4=-515/590 **BOT CHORD** 2-6=-397/387. 4-6=-397/387

WEBS 3-6=-326/240

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

- 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.
- Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 2 and 121 lb uplift at joint 4.



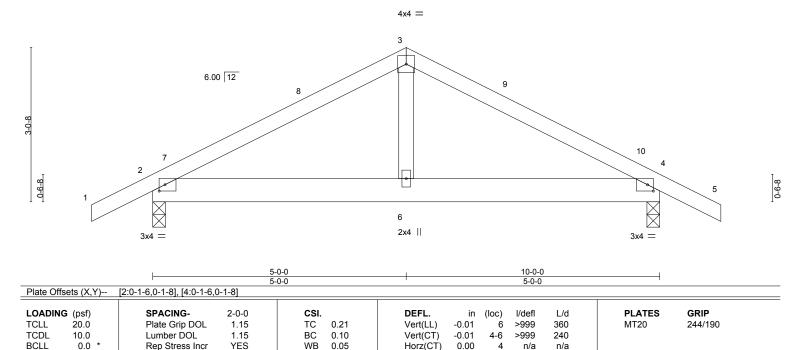


Job Truss Truss Type Qty Precision/27 Liberty Meadows/Harnett 157341299 COMMON J0323-1275 C2 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:04:00 2023 Page 1 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-3tnSoTsOan1O3ZPcOvvaW0OFaStXK2bi5x2ntQzY6cz 11-2-8 5-0-0 5-0-0 1-2-8

Scale = 1:22.7

FT = 20%

Weight: 48 lb



Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.02

>999

4-6

240

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

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

LUMBER-

BCDL

TOP CHORD 2x4 SP No.1 BOT CHORD 2x6 SP No.1 **WEBS** 2x4 SP No.2

10.0

REACTIONS. (size) 2=0-3-0, 4=0-3-0 Max Horz 2=40(LC 11)

Max Uplift 2=-91(LC 9), 4=-91(LC 8) Max Grav 2=470(LC 1), 4=470(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-515/568, 3-4=-515/568

Code IRC2015/TPI2014

BOT CHORD 2-6=-376/387, 4-6=-376/387

WFBS 3-6=-327/240

NOTES-

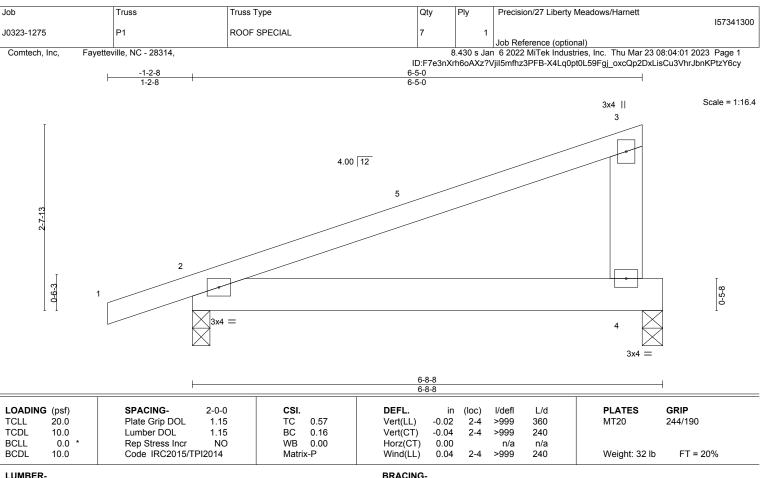
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 5-0-0, Exterior(2) 5-0-0 to 9-4-13, Interior(1) 9-4-13 to 11-2-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 2 and 91 lb uplift at joint 4.







BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.1 2x6 SP No.1

(size)

BOT CHORD **WEBS** 2x6 SP No.1

> 4=0-3-8, 2=0-3-0 Max Horz 2=85(LC 8) Max Uplift 4=-294(LC 8), 2=-134(LC 8) Max Grav 4=734(LC 1), 2=331(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 6-2-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 294 lb uplift at joint 4 and 134 lb uplift at ioint 2.
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 500 lb down and 669 lb up at 6-2-4 on bottom 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-60, 2-4=-20

Concentrated Loads (lb) Vert: 4=-500(F)



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

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

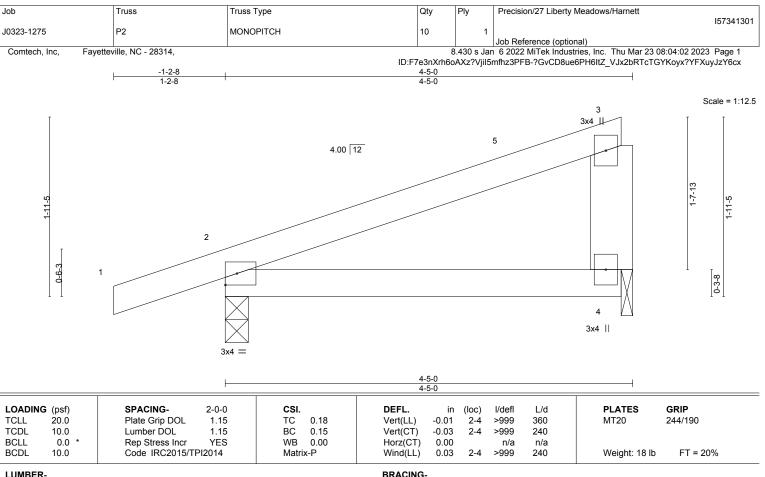
except end verticals.

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

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BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.1 2x4 SP No.1

BOT CHORD **WEBS** 2x6 SP No.1

REACTIONS.

2=0-3-0, 4=0-1-8 (size) Max Horz 2=62(LC 8)

Max Uplift 2=-109(LC 8), 4=-65(LC 8) Max Grav 2=256(LC 1), 4=149(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 4-2-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf 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.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 2 and 65 lb uplift at joint 4.



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

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

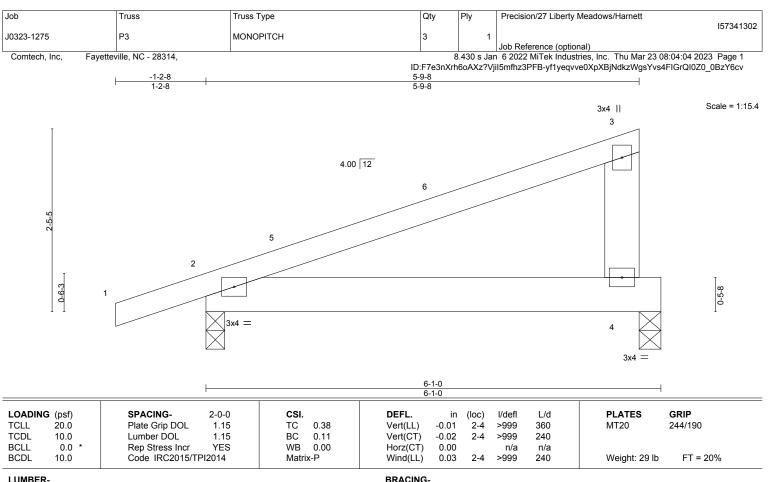
except end verticals.

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BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 2x6 SP No.1

BOT CHORD WEBS 2x6 SP No.1

REACTIONS. 4=0-3-8, 2=0-3-0 (size) Max Horz 2=78(LC 8)

Max Uplift 4=-90(LC 8), 2=-127(LC 8) Max Grav 4=208(LC 1), 2=307(LC 1)

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

NOTES-

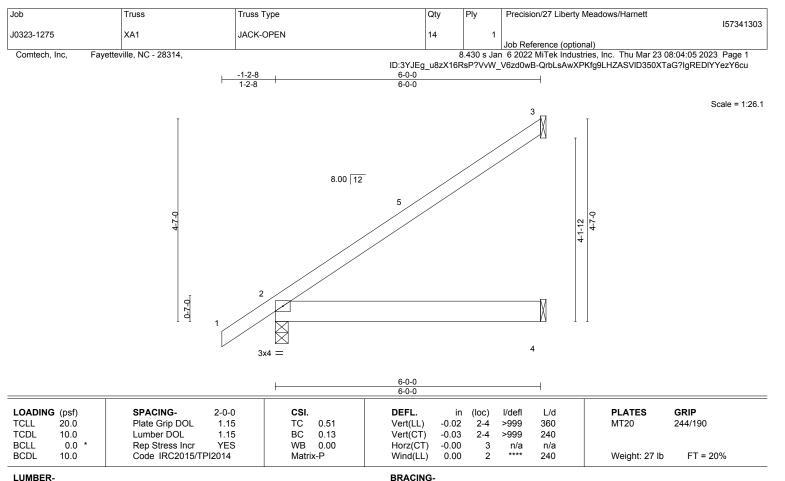
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 5-6-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 4 and 127 lb uplift at joint 2.



Structural wood sheathing directly applied or 5-9-8 oc purlins,

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

except end verticals.



BOT CHORD

LUMBER-BOT CHORD

REACTIONS.

2x4 SP No.1 TOP CHORD

2x6 SP No.1

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

Max Horz 2=151(LC 12)

Max Uplift 3=-105(LC 12)

Max Grav 3=184(LC 19), 2=322(LC 1), 4=116(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 5-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 3.



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

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



Job Truss Truss Type Qty Precision/27 Liberty Meadows/Harnett 157341304 J0323-1275 XB1 JACK-OPEN 10 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:04:06 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-u18j3Wx9AdnXnUsmk90_IHeCktxeklwbTtV554zY6ct -1-2-8 1-2-8 5-10-0 Scale = 1:25.5 8.00 12 0-2-0 5-10-0 5-10-0

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

I/defl

>999

>999

n/a

(loc)

2-4

3

-0.01

-0.03

-0.00

0.00

L/d

360

240

n/a

240

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

PLATES

Weight: 27 lb

MT20

Structural wood sheathing directly applied or 5-10-0 oc purlins.

GRIP

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

2x4 SP No.1 TOP CHORD

20.0

10.0

0.0

10.0

2x6 SP No.1 BOT CHORD

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

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

Max Horz 2=147(LC 12) Max Uplift 3=-102(LC 12)

Max Grav 3=178(LC 19), 2=316(LC 1), 4=113(LC 3)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 5-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

ВС

WB

Matrix-P

0.49

0.12

0.00

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

2-0-0

1.15

1.15

YES

- 3) * This truss has been designed for a live load of 30.0psf 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 3.







Job Truss Truss Type Qty Precision/27 Liberty Meadows/Harnett 157341305 J0323-1275 XB2 JACK-OPEN 2 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:04:07 2023 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

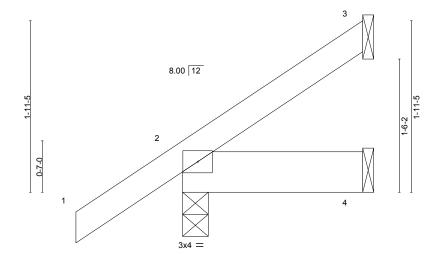
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Structural wood sheathing directly applied or 2-0-8 oc purlins.

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

2-0-8 2-0-8 1-2-8

Scale = 1:13.1



BRACING-

TOP CHORD

BOT CHORD

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL) -0.	00 2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(CT) -0.	00 2	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.	00 3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.	00 2	****	240	Weight: 11 lb	FT = 20%

LUMBER-TOP CHORD **BOT CHORD**

REACTIONS.

2x4 SP No.1

2x6 SP No.1

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

Max Horz 2=65(LC 12) Max Uplift 3=-29(LC 12), 2=-16(LC 12)

Max Grav 3=34(LC 19), 2=185(LC 1), 4=37(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 3 and 16 lb uplift at joint 2.



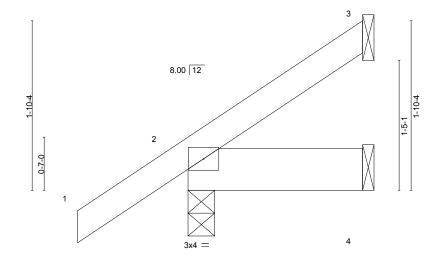


Job Truss Truss Type Qty Precision/27 Liberty Meadows/Harnett 157341306 J0323-1275 YA1 JACK-OPEN Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:04:08 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

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1-10-15 1-2-8 1-10-15

Scale = 1:12.6



1-10-15 1-10-15

BRACING-

TOP CHORD

BOT CHORD

LOADIN TCLL	IG (psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.08	DEFL. Vert(LL)	in -0.00	(loc)	l/defl >999	L/d 360	PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.00	Vert(CT)	-0.00	2	>999	240	IVITZO	244/190
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2015/TP	YES 12014	WB Matri	0.00 x-P	Horz(CT) Wind(LL)	0.00	3 2	n/a ****	n/a 240	Weight: 10 lb	FT = 20%

LUMBER-

REACTIONS.

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

2x6 SP No.1

3=Mechanical, 2=0-3-8, 4=Mechanical (size) Max Horz 2=63(LC 12) Max Uplift 3=-29(LC 12), 2=-15(LC 12)

Max Grav 3=40(LC 19), 2=174(LC 1), 4=37(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 3 and 15 lb uplift at joint 2.



Structural wood sheathing directly applied or 1-10-15 oc purlins.

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

Job Truss Truss Type Qty Precision/27 Liberty Meadows/Harnett 157341307 J0323-1275 YA2 JACK-OPEN Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:04:09 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-lcqrhYz1TYA6eybLPIZhNvGnG5zUx6g19rjlhPzY6cq 3-10-15 3-10-15 Scale = 1:19.3 0-5-3 8.00 12 2-9-1 0-2-0 3x4 =

LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 20.0 Plate Grip DOL 1.15 TC Vert(LL) -0.00 360 244/190 **TCLL** 0.21 >999 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.05 Vert(CT) -0.01 2-4 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-P Wind(LL) 0.00 240 Weight: 19 lb FT = 20%

3-10-15

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No.1

TOP CHORD 2x6 SP No.1 BOT CHORD

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

Max Horz 2=106(LC 12) Max Uplift 3=-66(LC 12), 2=-6(LC 12)

Max Grav 3=110(LC 19), 2=244(LC 1), 4=74(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 3-10-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 3 and 6 lb uplift at joint 2.



Structural wood sheathing directly applied or 3-10-15 oc purlins.

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



Job Truss Truss Type Qty Ply Precision/27 Liberty Meadows/Harnett 157341308 J0323-1275 YA3 Half Hip Girder Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:04:10 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-moODvt_gDsIzG6AXz?4ww7ozUUJ6gZvAOVTJErzY6cp 2-11-4 2-11-4 1-8-8 Scale = 1:13.0 5.66 12 2

2-11-4

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL) -0	0.00 2	>999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0	0.00 2-4	>999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -(0.00 3	n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL)	0.00 2	**** 240	Weight: 15 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x6 SP No.1

> 3=Mechanical, 2=0-4-9, 4=Mechanical (size)

Max Horz 2=66(LC 12)

0-2-0

Max Uplift 3=-31(LC 12), 2=-34(LC 12)

Max Grav 3=40(LC 1), 2=262(LC 1), 4=54(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 3 and 34 lb uplift at joint 2.



Structural wood sheathing directly applied or 2-11-4 oc purlins.

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

Job Truss Truss Type Qty Precision/27 Liberty Meadows/Harnett 157341309 J0323-1275 YB1 JACK-OPEN

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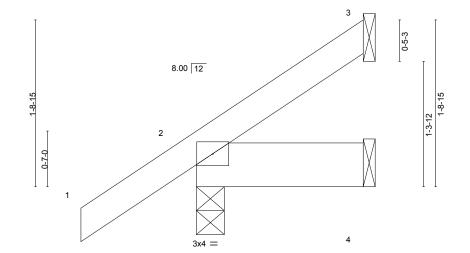
Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:04:11 2023 Page 1 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-E?yc6D?I_AQqtGljXicASKL9tufaP09Kd9CsmHzY6co

Structural wood sheathing directly applied or 1-8-15 oc purlins.

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

1-8-15 1-2-8 1-8-15

Scale: 1"=1



1-8-15

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.01	Vert(CT)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 10 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x6 SP No.1

3=Mechanical, 2=0-3-8, 4=Mechanical (size) Max Horz 2=60(LC 12)

Max Uplift 3=-25(LC 12), 2=-17(LC 12)

Max Grav 3=32(LC 19), 2=169(LC 1), 4=34(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 3 and 17 lb uplift at joint 2.





Job Truss Truss Type Qty Precision/27 Liberty Meadows/Harnett 157341310 J0323-1275 YB2 JACK-OPEN Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:04:12 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-jBW_KZ?wlTYhVPKv5Q7P?Yulnl?G8TPTroyQlkzY6cn 3-8-15 1-2-8 3-8-15 Scale = 1:18.7 0-5-3 8.00 12 2-7-12 0-2-0 3x4 =3-8-15

DEFL.

Vert(LL)

TOP CHORD

BOT CHORD

TCDL 10.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-P Wind(LL)

2-0-0

1.15

-0.00 2-4 >999 240 -0.00 3 n/a n/a 0.00 240 **BRACING-**

-0.00

(loc)

I/defl

>999

Weight: 18 lb

GRIP

244/190

FT = 20%

PLATES

MT20

Structural wood sheathing directly applied or 3-8-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

L/d

360

LUMBER-

20.0

LOADING (psf)

REACTIONS.

TCLL

2x4 SP No.1 TOP CHORD 2x6 SP No.1 BOT CHORD

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

Max Horz 2=102(LC 12)

Max Uplift 3=-63(LC 12), 2=-7(LC 12)

SPACING-

Plate Grip DOL

Max Grav 3=104(LC 19), 2=238(LC 1), 4=71(LC 3)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 3-8-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

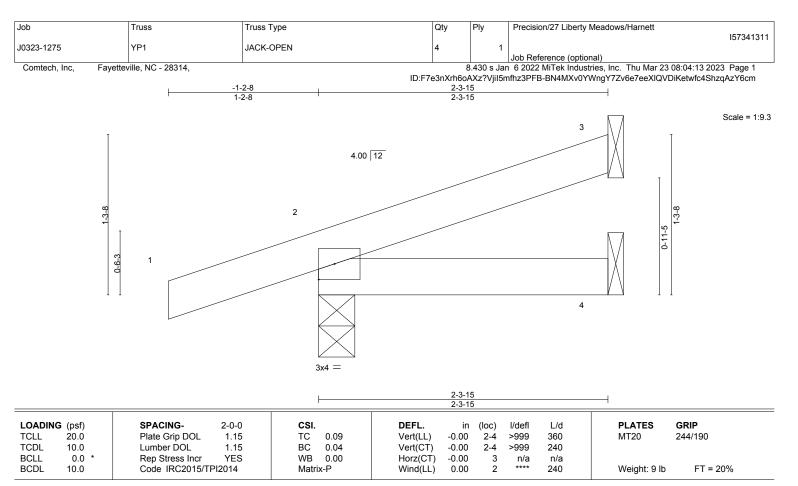
TC

0.19

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 3 and 7 lb uplift at joint 2.







LUMBER-

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

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 2-3-15 oc purlins.

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

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

Max Horz 2=41(LC 8)

Max Uplift 3=-23(LC 12), 2=-67(LC 8)

Max Grav 3=38(LC 1), 2=192(LC 1), 4=42(LC 3)

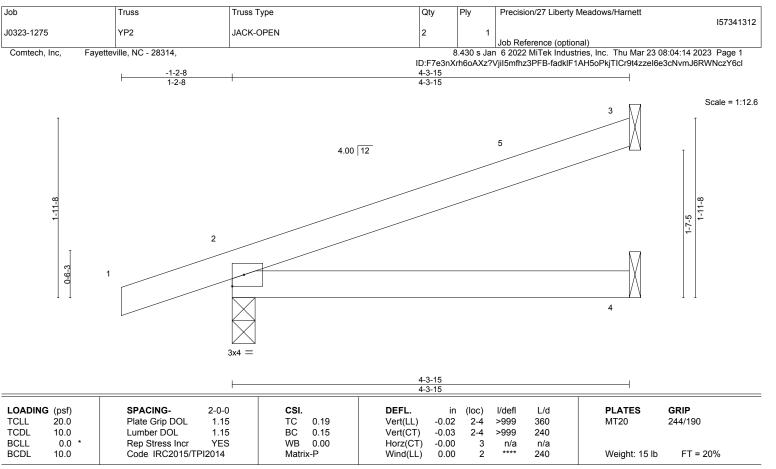
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 3 and 67 lb uplift at joint 2.







LUMBER-BOT CHORD

2x4 SP No.1 TOP CHORD 2x4 SP No.1 **BRACING-**

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 4-3-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 2=62(LC 8)

Max Uplift 3=-50(LC 12), 2=-63(LC 8)

Max Grav 3=111(LC 1), 2=259(LC 1), 4=83(LC 3)

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

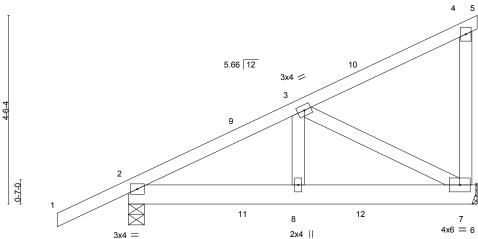
NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 4-3-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 3 and 63 lb uplift at joint 2.





Job Truss Truss Type Qty Precision/27 Liberty Meadows/Harnett 157341313 J0323-1275 ZA1 DIAGONAL HIP GIRDER 2 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:04:16 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-bylV9x3Qpi26_1dhKGBL9O2_YvLT4F83mQwdRVzY6cj 1-8-8 4-0-13 4-3-8 Scale = 1:27.6 3x4 || 4 5



4-0-13 4-0-13 4-3-8 LOADING (psf) SPACING-CSI. DEFL. I/defl L/d **PLATES** GRIP 2-0-0 (loc) 20.0 Plate Grip DOL Vert(LL) -0.00 >999 360 244/190 **TCLL** 1.15 TC 0.21 7-8 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) -0.01 7-8 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.15 Horz(CT) 0.00 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-P Wind(LL) 0.00 8 >999 240 Weight: 51 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No 1 BOT CHORD 2x6 SP No.1

WEBS 2x4 SP No.2

> 7=Mechanical, 2=0-4-9 (size) Max Horz 2=150(LC 8)

Max Uplift 7=-110(LC 8), 2=-50(LC 8) Max Grav 7=353(LC 29), 2=456(LC 1)

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

TOP CHORD 2-3=-523/31

BOT CHORD 2-8=-118/381, 7-8=-118/381

WEBS 3-7=-430/133

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 7 and 50 lb uplift at joint 2.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 75 lb down and 33 lb up at 2-9-8, 75 lb down and 33 lb up at 2-9-8, and 107 lb down and 84 lb up at 5-7-7, and 107 lb down and 84 lb up at 5-7-7 on top chord , and 2 lb down at 2-9-8, 2 lb down at 2-9-8, and 20 lb down at 5-7-7, and 20 lb down at 5-7-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-60, 4-5=-20, 2-6=-20

Concentrated Loads (lb)

Vert: 10=-23(F=-11, B=-11) 12=-17(F=-9, B=-9)



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

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

except end verticals.

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 chore 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 Precision/27 Liberty Meadows/Harnett 157341314 J0323-1275 ZB1 DIAGONAL HIP GIRDER 2 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:04:17 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-39JtNH33a0AzbBCttziaibb9HJhqpicC?4fA_xzY6ci 8-1-8 1-8-8 3-11-6 4-2-2 Scale = 1:27.0 3x4 || 4 5 5.66 12 10 3x4 / 3 0-2-0 11 12 8 4x6 = 63x4 =2x4 II 3-11-6 4-2-2

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

I/defl

>999

>999

except end verticals.

n/a

(loc)

7-8

7-8

8 >999

-0.00

-0.01

0.00

0.00

L/d

360

240

n/a

240

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

PLATES

Weight: 49 lb

MT20

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

GRIP

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

TOP CHORD 2x4 SP No 1 BOT CHORD 2x6 SP No.1

WEBS 2x4 SP No.2

20.0

10.0

0.0

10.0

REACTIONS. (size) 7=Mechanical, 2=0-4-9

Max Horz 2=146(LC 8)

Max Uplift 7=-104(LC 8), 2=-48(LC 8) Max Grav 7=336(LC 29), 2=443(LC 1)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

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

TOP CHORD 2-3=-502/26

BOT CHORD 2-8=-112/361, 7-8=-112/361

WEBS 3-7=-408/127

NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

ВС

WB

Matrix-P

0.21

0.08

0.13

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

2-0-0

1.15

1.15

NO

- * This truss has been designed for a live load of 30.0psf 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 7 and 48 lb uplift at joint 2.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 74 lb down and 28 lb up at 2-6-11, 74 lb down and 28 lb up at 2-6-11, and 104 lb down and 79 lb up at 5-4-10, and 104 lb down and 79 lb up at 5-4-10 on top chord, and 0 lb down at 2-6-11, 0 lb down at 2-6-11, and 18 lb down at 5-4-10, and 18 lb down at 5-4-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-60, 4-5=-20, 2-6=-20

Concentrated Loads (lb)

Vert: 10=-11(F=-6, B=-6) 12=-14(F=-7, B=-7)



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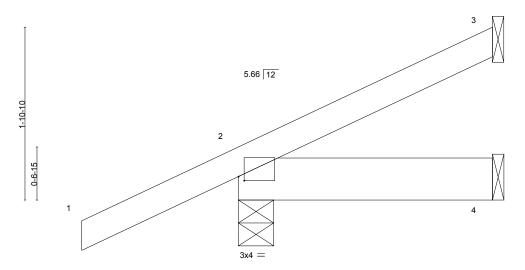


Job Truss Truss Type Qty Ply Precision/27 Liberty Meadows/Harnett 157341315 J0323-1275 ZB2 JACK-OPEN Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:04:18 2023 Page 1

Comtech, Inc, Fayetteville, NC - 28314, $ID: 3YJEg_u8zX16RsP?VvW_V6zd0wB-XLtFad4hLJIqDKn3RgEpEp8Jcj21YBuMEkPkWOzY6ch$

1-8-8 2-9-4

Scale = 1:12.6



2-9-4

Plate Off	Plate Offsets (X,Y) [2:0-0-12,0-0-9]											
LOADIN	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2	014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 14 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x6 SP No.1 BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 2-9-4 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

3=Mechanical, 2=0-4-10, 4=Mechanical (size) Max Horz 2=64(LC 12)

Max Uplift 3=-28(LC 12), 2=-35(LC 12) Max Grav 3=32(LC 1), 2=258(LC 1), 4=50(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 3 and 35 lb uplift at joint 2.



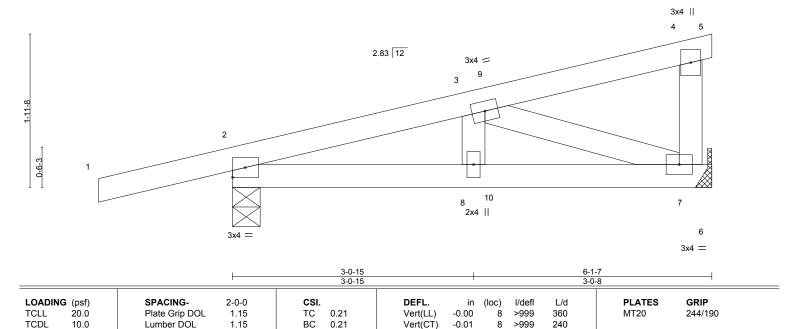
Job Truss Truss Type Qty Precision/27 Liberty Meadows/Harnett Ply 157341316 ZP1 DIAGONAL HIP GIRDER J0323-1275 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:04:19 2023 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:F7e3nXrh6oAXz?VjiI5mfhz3PFB-?XRdoy5J6dQhrUMG?Ol2n0gVj7KGHeHVSO8H2qzY6cg

3-0-15

Scale = 1:14.7

6-1-7

3-0-8



Horz(CT)

Wind(LL)

TOP CHORD

BOT CHORD

0.00

0.00

n/a

except end verticals.

8 >999 n/a

240

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

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

Weight: 28 lb

FT = 20%

LUMBER-BRACING-

NO

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

0.0

10.0

REACTIONS. 7=Mechanical, 2=0-4-4 (size)

Max Horz 2=63(LC 19) Max Uplift 7=-28(LC 8), 2=-96(LC 4) Max Grav 7=219(LC 1), 2=359(LC 1)

Rep Stress Incr

Code IRC2015/TPI2014

1-8-8

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

TOP CHORD 2-3=-360/8

BOT CHORD 2-8=-40/308, 7-8=-40/308

WEBS 3-7=-325/42

NOTES-

BCLL

BCDL

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-P

0.06

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 7 and 96 lb uplift at joint 2.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 18 lb down and 20 lb up at 3-4-9, and 18 lb down and 20 lb up at 3-4-9 on top chord, and 4 lb down at 3-4-9, and 4 lb down at 3-4-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-60, 4-5=-20, 2-6=-20



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Job	Truss	Truss Type	Qty	Plv	Precision/27 Liberty Meadows/Harnett	\neg
		,,,,	,	'	I5734131	7
J0323-1275	ZP2	DIAGONAL HIP GIRDER	1	1	1676776	.
					Job Reference (optional)	ļ
Comtech, Inc, Fayettev	ville, NC - 28314,			3.430 s Jar	6 2022 MiTek Industries, Inc. Thu Mar 23 08:04:21 2023 Page 1	
•		ID:F7e3	3nXrh6oA	<z?vjii5mfl< p=""></z?vjii5mfl<>	nz3PFB-ywYODe6ZeEqP4oWe6pnWsRmoRw?qlUoowidO7izY6ce	
	-1-8-8	4-5-14		,	8-11-6	

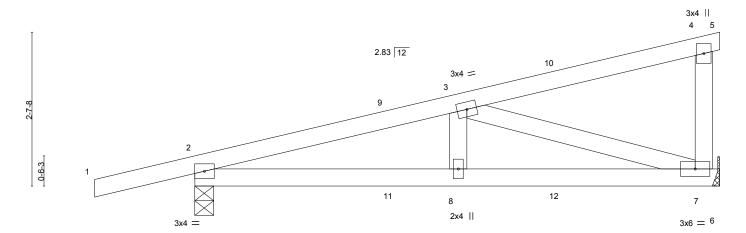
Scale = 1:19.6

4-5-8

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

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

except end verticals.



4-5-14

	<u> </u>	4-5-14 4-5-14	8-11-6 4-5-8
LOADING (psf) TCLL 20.0 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 NO Code IRC2015/TPI2014	CSI. DEFL. TC 0.33 Vert(LL) BC 0.28 Vert(CT) WB 0.25 Horz(CT) Matrix-P Horz(CT)	in (loc) I/defl L/d PLATES GRIP 0.03 2-8 >999 240 MT20 244/190 -0.04 7-8 >999 240 0.01 7 n/a n/a Weight: 40 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

REACTIONS. (size) 7=Mechanical, 2=0-3-14 Max Horz 2=84(LC 4)

1-8-8

Max Uplift 7=-153(LC 4), 2=-204(LC 4) Max Grav 7=396(LC 1), 2=488(LC 1)

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

TOP CHORD 2-3=-777/243

BOT CHORD 2-8=-279/710, 7-8=-279/710

WEBS 3-7=-742/292

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 7 and 204 lb uplift at joint 2.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 18 lb down and 20 lb up at 3-4-9, 18 lb down and 20 lb up at 3-4-9, and 46 lb down and 62 lb up at 6-2-8, and 46 lb down and 62 lb up at 6-2-8 on top chord, and 4 lb down at 3-4-9, 4 lb down at 3-4-9, and 26 lb down at 6-2-8, and 26 lb down at 6-2-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-60, 4-5=-20, 2-6=-20

Concentrated Loads (lb)

Vert: 10=-53(F=-26, B=-26) 12=-26(F=-13, B=-13)



March 23,2023

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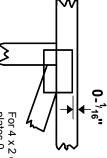


Symbols

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

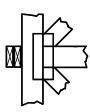
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



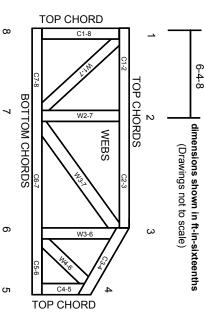
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.

4

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



Client: Project: Address: Date: 3/23/2023 Input by: Neal Baggett

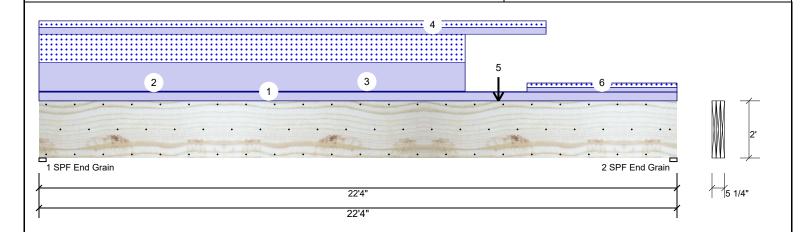
Job Name: 27 LIBERTY MEADOWS

Page 1 of 17

Project #:

1.750" X 24.000" **Kerto-S LVL** 3-Ply - PASSED FB1

evel: Level



Application: Type: Floor Plies: 3 Design Method: ASD Moisture Condition: Dry **Building Code: IBC/IRC 2015** Deflection LL: 480 Load Sharing: Yes Deflection TL: 360 Deck: Not Checked Importance: Normal - II Temperature: Temp <= 100°F

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	112	7018	5324	0	0
2	Vertical	112	5588	3893	0	0

Bearings

Grain

				React D/L lb			Ld. Comb.
1 - SPF End Grain	3.000"	Vert	93%	7018 / 5324	12342	L	D+S
2 - SPF Fnd	3.000"	Vert	72%	5588 / 3893	9480	L	D+S

Analysis Results

Member Information

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	65847 ft-lb	11' 1/4"	131295 ft-lb	0.502 (50%)	D+S	L
Unbraced	65847 ft-lb	11' 1/4"	66073 ft-lb	0.997 (100%)	D+S	L
Shear	9886 lb	2'3"	30912 lb	0.320 (32%)	D+S	L
LL Defl inch	0.228 (L/1158)	11'1"	0.549 (L/480)	0.414 (41%)	S	L
TL Defl inch	0.530 (L/498)	11'1 1/4"	0.733 (L/360)	0.723 (72%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 3'11 15/16" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

ide Dead 0.9	Live 1 Chay 1	45 140 0 4 400	
	LIVE I SHOW I.	15 Wind 1.6 Const. 1.25	Comments
pp 120 PLF	0 PLF 0 P	LF 0 PLF 0 PLF	WALL
ar Face 15 PSF	40 PSF 0 PS	SF 0 PSF 0 PSF	FLOOR LOADING
p 15 PSF	40 PSF 0 PS	SF 0 PSF 0 PSF	FLOOR LOADING
op 392 PLF	0 PLF 392 P	LF 0 PLF 0 PLF	ATRUSSES
op ar op	120 PLF Face 15 PSF 15 PSF	120 PLF 0 PLF 0 P Face 15 PSF 40 PSF 0 PS 15 PSF 40 PSF 0 PS	120 PLF 0 PLF 0 PLF 0 PLF 0 PLF Face 15 PSF 40 PSF 0 PSF 0 PSF 0 PSF 15 PSF 40 PSF 0 PSF 0 PSF 0 PSF

Continued on page 2...

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- approvals

 Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS



This design is valid until 11/3/2024



Continued from page 1

Client: Project: Address: Date: 3/23/2023 Input by: Neal Baggett

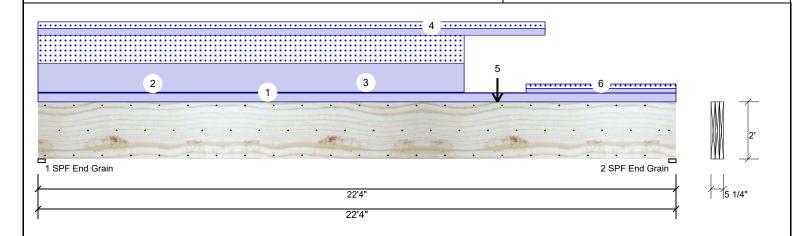
Job Name: 27 LIBERTY MEADOWS

Page 2 of 17

Project #:

Kerto-S LVL 1.750" X 24.000" 3-Ply - PASSED FB₁

_evel: Level



ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
4	Part. Uniform	0-0-0 to 17-9-0		Near Face	92 PLF	0 PLF	92 PLF	0 PLF	0 PLF	P TRUSSES	
5	Point	16-1-0		Тор	1416 lb	0 lb	1416 lb	0 lb	0 lb	A1	
	Bearing Length	0-3-8									
6	Part. Uniform	17-1-0 to 22-4-0		Тор	61 PLF	0 PLF	61 PLF	0 PLF	0 PLF	Y TRUSSES	
	Self Weight				28 PLF						

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. IVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

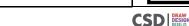
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info





Client: Project: Address:

3/23/2023 Input by: Neal Baggett

Job Name: 27 LIBERTY MEADOWS

Page 3 of 17

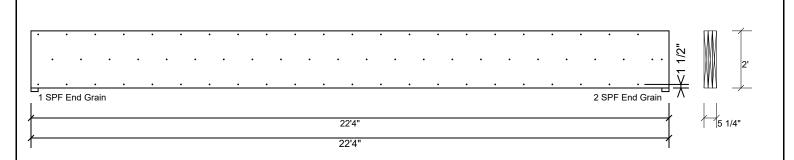
Project #:

Kerto-S LVL FB1

1.750" X 24.000"

3-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Nail from both sides. Maximum end distance not to exceed

Capacity	43.4 %	
Load	122.7 PLF	
Yield Limit per Foot	282.4 PLF	
Yield Limit per Fastener	94.1 lb.	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination	D+S	
Duration Factor	1.15	

Notes

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation
- - This design is valid until 11/3/2024

For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info





Client: Project: Address:

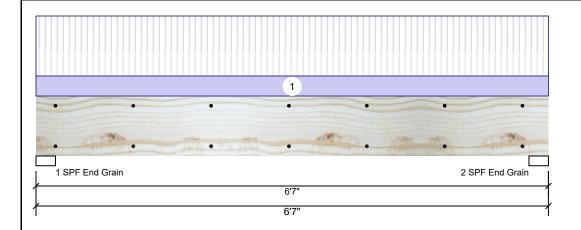
3/23/2023 Input by: Neal Baggett

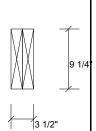
Job Name: 27 LIBERTY MEADOWS

Project #:

1.750" X 9.250" 2-Ply - PASSED Kerto-S LVL DB₂

Level: Level





Page 4 of 17

Member Information

	Туре:	Girder
- 1	Plies:	2
-	Moisture Condition:	Dry
-	Deflection LL:	480
- 1	Deflection TL:	360
	Importance:	Normal - II
	Temperature:	Temp <= 100°F

Application: Floor Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	2696	922	0	0	0
2	Vertical	2696	922	0	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5296 ft-lb	3'3 1/2"	12542 ft-lb	0.422 (42%)	D+L	L
Unbraced	5296 ft-lb	3'3 1/2"	9872 ft-lb	0.536 (54%)	D+L	L
Shear	2502 lb	1' 1/4"	6907 lb	0.362 (36%)	D+L	L
LL Defl inch	0.073 (L/1016)	3'3 1/2"	0.155 (L/480)	0.473 (47%)	L	L
TL Defl inch	0.098 (L/757)	3'3 1/2"	0.207 (L/360)	0.476 (48%)	D+L	L

Bearings

l	Bearing	Length	Dir.	Cap. Re	eact D/L lb	Iotal	Ld. Case	Ld. Comb
l	1 - SPF End Grain	3.000"	Vert	41%	922 / 2696	3618	L	D+L
l	2 - SPF End Grain	3.000"	Vert	41%	922 / 2696	3618	L	D+L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

ID Location Trib Width Load Type Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments 1 Uniform 273 PLF 819 PLF 0 PI F 0 PLF 0 PLF F01 Top

> Self Weight 7 PLF

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled
 Refer to manufacturer's product information
 regarding installation requirements, multi-ply
 fastening details, beam strength values, and code approvals

 Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- This design is valid until 11/3/2024

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us





Client: Project: Address: Date: 3/23/2023 Input by:

Neal Baggett Job Name: 27 LIBERTY MEADOWS

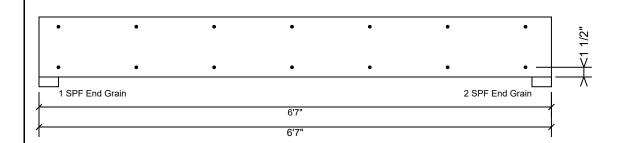
Project #:

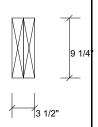
Kerto-S LVL DB₂

1.750" X 9.250"

2-Ply - PASSED

Level: Level





Page 5 of 17

Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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Manufacturer Info

Metsä Wood







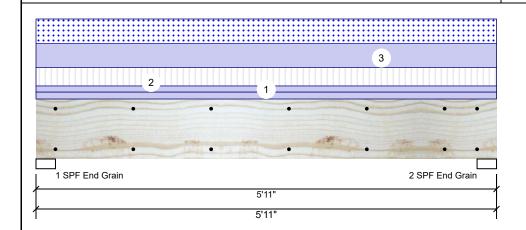
Client: Project: Address: Date: 3/23/2023 Input by: Neal Baggett

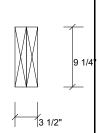
Job Name: 27 LIBERTY MEADOWS

Project #:

Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED HDR1

Level: Level





Page 6 of 17

Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application: Floor Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift) Brg Wind Direction Live Dead Snow Const 932 1926 1240 0 Vertical 0 2 Vertical 932 1926 1240 0 0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4613 ft-lb	2'11 1/2"	14423 ft-lb	0.320 (32%)	D+0.75(L+S)	L
Unbraced	4613 ft-lb	2'11 1/2"	11027 ft-lb	0.418 (42%)	D+0.75(L+S)	L
Shear	2334 lb	4'10 3/4"	7943 lb	0.294 (29%)	D+0.75(L+S)	L
LL Defl inch	0.033 (L/2026)	2'11 1/2"	0.139 (L/480)	0.237 (24%)	0.75(L+S)	L
TL Defl inch	0.072 (L/928)	2'11 1/2"	0.185 (L/360)	0.388 (39%)	D+0.75(L+S)	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

	Bearings										
I	Bearing	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.			
	1 - SPF End Grain	3.000"	Vert	40%	1926 / 1629	3555	L	D+0.75(L+S)			
l	2 - SPF	3.000"	Vert	40%	1926 / 1629	3555	L	D+0.75(L+S)			

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
2	Uniform			Тор	105 PLF	315 PLF	0 PLF	0 PLF	0 PLF	FLOOR TRUSSES
3	Uniform			Тор	419 PLF	0 PLF	419 PLF	0 PLF	0 PLF	ROOF TRUSSES
	Self Weight				7 PLF					

End Grain

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 Damaged Beams must not be used

- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851

(800) 622-5850 www.metsawood.com/us





Client: Project: Address: Date: 3/23/2023 Input by:

Neal Baggett Job Name: 27 LIBERTY MEADOWS

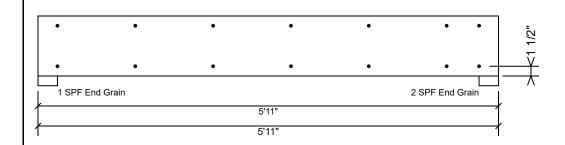
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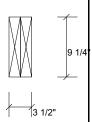
Kerto-S LVL HDR1

1.750" X 9.250"

2-Ply - PASSED

Level: Level





Page 7 of 17

Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

- 6. For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS



This design is valid until 11/3/2024 CSD DESIGN



Client: Project: Address: Date: 3/23/2023 Input by: Neal Baggett

Job Name: 27 LIBERTY MEADOWS

Page 8 of 17

Wind

0

0

Const

Ld. Comb. D+S

D+S

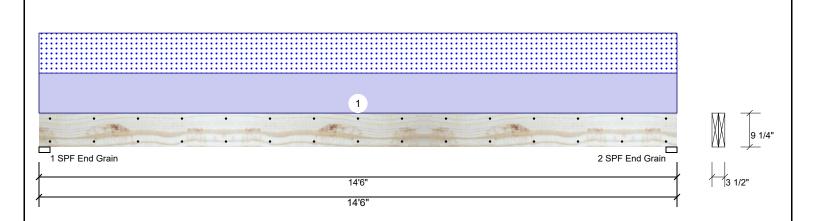
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Project #:

1.750" X 9.250" 2-Ply - PASSED Kerto-S LVL DB₃

Level: Level



Member Information Reactions UNPATTERNED Ib (Uplift) Application: Live Type: Floor Brg Direction Dead Snow Plies: 2 Design Method: ASD 0 654 602 Vertical Moisture Condition: Dry **Building Code: IBC/IRC 2015** 2 Vertical 0 654 602 Deflection LL: 480 Load Sharing: No Deflection TL: 360 Deck: Not Checked Importance: Normal - II Temp <= 100°F Temperature: **Bearings** Bearing Length Dir. Cap. React D/L lb Total Ld. Case 1 - SPF 3.000" Vert 14% 654 / 602 1256 L End Grain

Analysis	Results
----------	---------

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4319 ft-lb	7'3"	14423 ft-lb	0.299 (30%)	D+S	L
Unbraced	4319 ft-lb	7'3"	5431 ft-lb	0.795 (80%)	D+S	L
Shear	1084 lb	13'5 3/4"	7943 lb	0.137 (14%)	D+S	L
LL Defl inch	0.168 (L/1007)	7'3 1/16"	0.353 (L/480)	0.477 (48%)	S	L
TL Defl inch	0.351 (L/482)	7'3 1/16"	0.471 (L/360)	0.746 (75%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.

Self Weight

- 7 Bottom must be laterally braced at end bearings.

U Lateral Sieriue	mess ratio based on single									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	83 PLF	0 PLF	83 PLF	0 PLF	0 PLF	P TRUSSES

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

7 PLF

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

14%

Vert

2 - SPF 3.000"

End Grain 654 / 602

1256 L





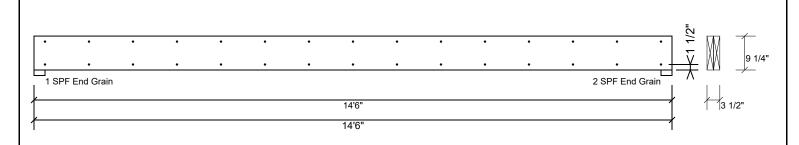
Client: Project: Address: Date: 3/23/2023 Input by:

Neal Baggett Job Name: 27 LIBERTY MEADOWS Page 9 of 17

Project #:

1.750" X 9.250" 2-Ply - PASSED Kerto-S LVL DB₃

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c., Maximum end distance not to exceed 6".

1 3		•	,
Capacity	0.0 %		
Load	0.0 PLF		
Yield Limit per Foot	163.7 PLF		
Yield Limit per Fastener	81.9 lb.		
Yield Mode	IV		
Edge Distance	1 1/2"		
Min. End Distance	3"		
Load Combination			
Duration Factor	1.00		

Notes

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

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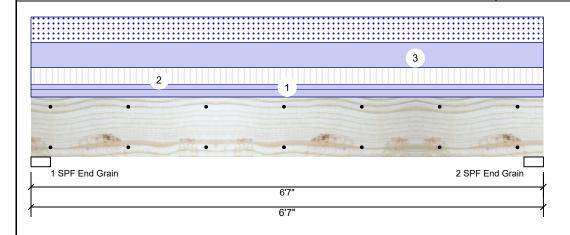
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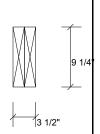
Job Name: 27 LIBERTY MEADOWS

Project #:

1.750" X 9.250" 2-Ply - PASSED **Kerto-S LVL** HDR2

Level: Level





Page 10 of 17

Member Information

Type:	Giraer
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application: Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

Reactions	UNPATT	ERNED	lb (L	Jplift)

Direction	Live	Dead	Snow	Wind	Const
Vertical	902	2097	1379	0	0
Vertical	902	2097	1379	0	0
	Vertical	Vertical 902	Vertical 902 2097	Vertical 902 2097 1379	Vertical 902 2097 1379 0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5574 ft-lb	3'3 1/2"	14423 ft-lb	0.386 (39%)	D+0.75(L+S)	L
Unbraced	5574 ft-lb	3'3 1/2"	10370 ft-lb	0.538 (54%)	D+0.75(L+S)	L
Shear	2633 lb	1' 1/4"	7943 lb	0.331 (33%)	D+0.75(L+S)	L
LL Defl inch	0.047 (L/1601)	3'3 1/2"	0.155 (L/480)	0.300 (30%)	0.75(L+S)	L
TL Defl inch	0.104 (L/719)	3'3 1/2"	0.207 (L/360)	0.501 (50%)	D+0.75(L+S)	L

Bearings

Grain

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	43%	2097 / 1711	3808	L	D+0.75(L+S)
2 - SPF End	3.000"	Vert	43%	2097 / 1711	3808	L	D+0.75(L+S)

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.

- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.

o Lateral sienderness ratio based on single ply width.											
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL	
2	Uniform			Тор	91 PLF	274 PLF	0 PLF	0 PLF	0 PLF	FLOOR TRUSSES	
3	Uniform			Тор	419 PLF	0 PLF	419 PLF	0 PLF	0 PLF	ROOF TRUSSES	
	Self Weight				7 PLF						

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 2 Damaged Beams must not be used

- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS



This design is valid until 11/3/2024 CSD DESIGN

Client: Project: Address: Date: 3/23/2023 Input by:

Neal Baggett Job Name: 27 LIBERTY MEADOWS

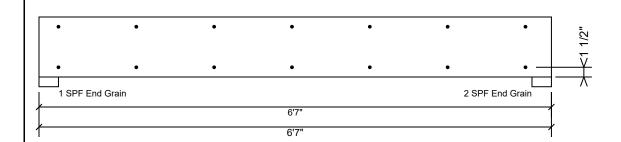
Project #:

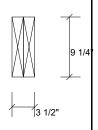
Kerto-S LVL HDR2

1.750" X 9.250"

2-Ply - PASSED

Level: Level





Page 11 of 17

Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation
- - This design is valid until 11/3/2024

6. For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info





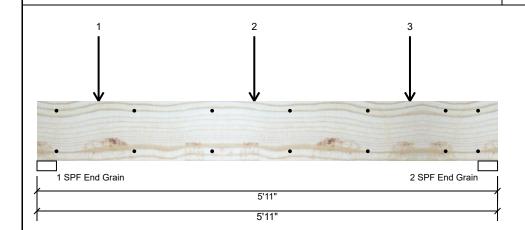
Client: Project: Address: Date: 3/23/2023

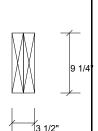
Input by: Neal Baggett Job Name: 27 LIBERTY MEADOWS

Project #:

2-Ply - PASSED **Kerto-S LVL** 1.750" X 9.250" HDR3

Level: Level





Page 12 of 17

Member Information

Type: Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360 Importance:

Normal - II Temp <= 100°F Temperature:

Application: Floor Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1472	1451	0	0
2	Vertical	0	871	850	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4533 ft-lb	2'9 1/2"	14423 ft-lb	0.314 (31%)	D+S	L
Unbraced	4533 ft-lb	2'9 1/2"	11027 ft-lb	0.411 (41%)	D+S	L
Shear	2468 lb	1' 1/4"	7943 lb	0.311 (31%)	D+S	L
LL Defl inch	0.031 (L/2162)	2'9 1/2"	0.139 (L/480)	0.222 (22%)	S	L
TL Defl inch	0.062 (L/1074)	2'9 1/2"	0.185 (L/360)	0.335 (34%)	D+S	L

Bearings

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1-SPF 3.000" 1472 / 1451 D+S Vert 2923 L End Grain 2 - SPF 3.000" 20% 871 / 850 1721 L D+S Vert End Grain

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Point	0-9-8		Тор	763 lb	0 lb	763 lb	0 lb	0 lb	A2
	Bearing Length	0-3-8								
2	Point	2-9-8		Тор	1416 lb	0 lb	1416 lb	0 lb	0 lb	A1
	Bearing Length	0-3-8								
3	Point	4-9-8		Тор	122 lb	0 lb	122 lb	0 lb	0 lb	YA2

Continued on page 2...

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- approvals

 Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

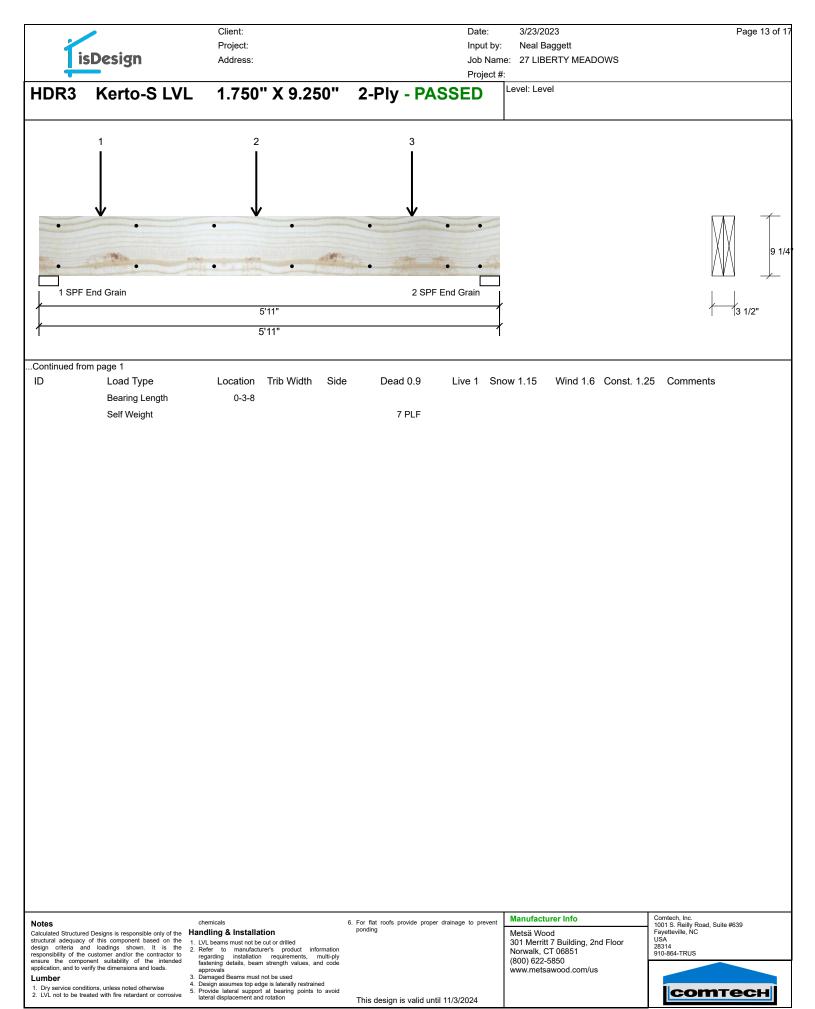
This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info







Client: Project: Address: Date: 3/23/2023 Input by:

Neal Baggett

Job Name: 27 LIBERTY MEADOWS

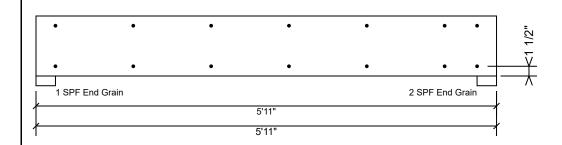
Project #:

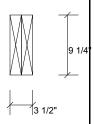
Kerto-S LVL HDR3

1.750" X 9.250"

2-Ply - PASSED

Level: Level





Page 14 of 17

Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

rasterrain pries asing E ro	vis or roa box mans (. 120x5) at
Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info







Client: Project: Address:

3/23/2023 Input by: Neal Baggett

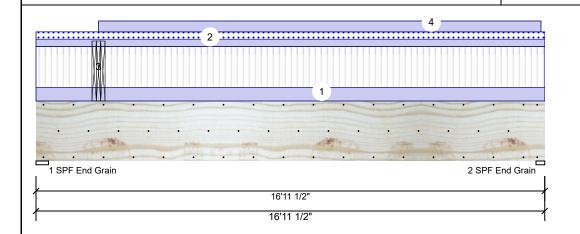
Job Name: 27 LIBERTY MEADOWS

Project #:

Kerto-S LVL GDH-SL

1.750" X 24.000" 2-Ply - PASSED

Level: Level





Page 15 of 17

Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application: Floor Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	3952	7922	4172	0	0
2	Vertical	3808	3687	1095	0	0

Analysis Results

•						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	32691 ft-lb	7'9 13/16"	73185 ft-lb	0.447 (45%)	D+L	L
Unbraced	33771 ft-lb	7'4 7/16"	33908 ft-lb	0.996 (100%)	D+0.75(L+S)	L
Shear	11010 lb	2'5"	20608 lb	0.534 (53%)	D+0.75(L+S)	L
LL Defl inch	0.121 (L/1624)	8'3"	0.410 (L/480)	0.295 (30%)	0.75(L+S)	L
TL Defl inch	0.254 (L/775)	8'1 11/16"	0.547 (L/360)	0.464 (46%)	D+0.75(L+S)	L

Bearings

End Grain

Bearing	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	5.000"	Vert	95%	7922 / 6093	14015	L	D+0.75(L+S
2 - SPF	3.500"	Vert	73%	3687 / 3808	7494	L	D+L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 5'3" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	151 PLF	451 PLF	0 PLF	0 PLF	0 PLF	F03
2	Uniform			Тор	81 PLF	0 PLF	81 PLF	0 PLF	0 PLF	YA2
3	Point	2-1-0		Тор	5588 lb	112 lb	3893 lb	0 lb	0 lb	DB1 Brg 2
	Bearing Length	0-5-4								

Continued on page 2...

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- - approvals

 Damaged Beams must not be used

Handling & Installation

Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

LVL beams must not be cut or drilled
Refer to manufacturer's product information
regarding installation requirements, multi-ply
fastening details, beam strength values, and code

- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info





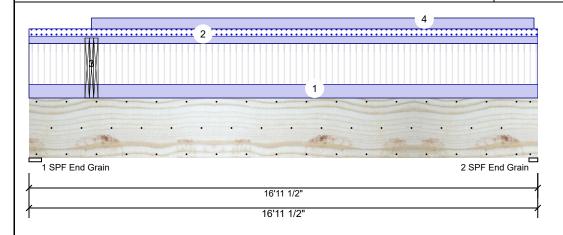
Client: Project: Address: Date: 3/23/2023 Input by: Neal Baggett

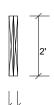
Job Name: 27 LIBERTY MEADOWS

Project #:

Kerto-S LVL 1.750" X 24.000" 2-Ply - PASSED **GDH-SL**

Level: Level





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.Continued from page 1

ID Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments 4 Part. Uniform 2-1-0 to 16-10-0 Тор 120 PLF 0 PLF 0 PLF 0 PLF 0 PLF WALL Self Weight 19 PLF

Notes

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS



This design is valid until 11/3/2024 CSD DESIGN

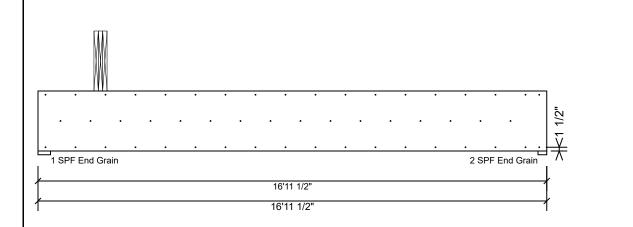
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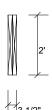
Job Name: 27 LIBERTY MEADOWS

Project #:

Kerto-S LVL 1.750" X 24.000" 2-Ply - PASSED **GDH-SL**

Level: Level





Page 17 of 17

Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

rasterrain pines asing 5 rev	vs or roa box rians (. reoxs) at
Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS



This design is valid until 11/3/2024 CSD DESIGN

Manufacturer Info

Reaction Summary of Order **REQ. QUOTE DATE** 11 ORDER# J0323-1276 ORDER DATE 03/21/23 **QUOTE #** 0000007216 **DELIVERY DATE** / / **CUSTOMER ACCT# ROOF & FLOOR DATE OF INVOICE** 11 **CUSTOMER PO#** ComTech TRUSSES & BEAMS ORDERED BY Shaun Garderner **INVOICE #** COUNTY Harnett **TERMS** Reilly Road Industrial Park P.O. Box 40408 Fayetteville, N.C. 28309 (910) 864-TRUS SUPERINTENDANT Shaun Garderner **SALES REP** Neil Baggett (910) 988-8172 Neil Baggett **JOBSITE PHONE # SALES AREA LOT #** 27 **SUBDIV: Liberty Meadows Precision Custom Homes** JOB NAME: 27 Liberty Meadows SOLD 256 Briar Hill Rd. MODEL: Floor TAG: Hayek JOB CATEGORY: **DELIVERY INSTRUCTIONS:** Raeford, NC 28376 T 52 miles round trip (910) 988-8172 SHIP **Precision Custom Homes and** SPECIAL INSTRUCTIONS: Sears Dr. Like 3 Peach Orchard TO Cameron, NC **PLAN SEAL DATE:** DATE HEEL HEIGHT 00-04-05 **BUILDING DEPARTMENT OVERHANG INFO REQ. LAYOUTS REQ. ENGINEERING** QUOTE END CUT RETURN LAYOUT NB 03/23/23 Floor Order 03/21/23 PLUMB **GABLE STUDS** 24 IN. OC JOBSITE **CUTTING** NB JOBSITE **LOADING** TCLL-TCDL-BCLL-BCDL STRESS INCR. FLOOR TRUSSES FLOOR TRUSS SPACING: 24.0 IN. O.C. (TYP.) **INFORMATION** 40.0,10.0,0.0,5.0 1.00 FLOOR QTY DEPTH BASE O/A **END TYPE** INT BEARING **REACTIONS PROFILE** PLY ID **SPAN SPAN** LEFT RIGHT SIZE LOCATION Joint 12 01-04-00 Joint 7 10-01-00 534.6 lbs. F08 534.6 lbs. 295.7 lbs. 287.6 lbs. Joint 27 Joint 35 Joint 43 01-04-00 34-06-00 34-06-00 764.7 lbs. 2937.8 lbs. 952.8 lbs FG1 80.3 lbs. 294.9 lbs. 2167.7 lbs. 01-04-00 Joint 5 Joint 8 FG2 05-03-08 05-03-08 892.9 lbs. 899.1 lbs. 831.5 lbs. 820.8 lbs. **ITEMS LENGTH** QTY **ITEM TYPE** SIZE **PART NUMBER NOTES** FT-IN-16 LVL Beams (Sized) LVL, 1-3/4" x 9-1/4" (S) DB2 & HDR2 07-00-00 HDR1 & HDR3 LVL Beams (Sized) LVL, 1-3/4" x 9-1/4" (S) 06-00-00

5

3

LVL Beams (Sized)

Hangers, USP

LVL, 1-3/4" x 24" (S)

MSH422

24-00-00

DATE 03/23/23

24" LVL is <<ONLY>> sold in 20, 24, 28 or 48 foot lengths!!!

(sm) DB1 & GDH-SL

SIMPSON (THA422)

PAGE 2



Trenco

818 Soundside Rd Edenton, NC 27932

Re: J0323-1276

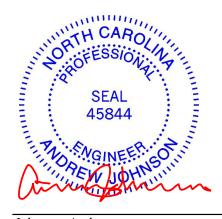
Precision/27 Liberty Meadows/Harnett

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: I57341318 thru I57341329

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



March 23,2023

Johnson, Andrew

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.

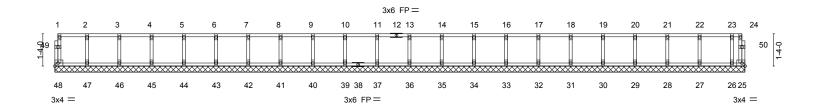
Job	Truss	Truss Type	Qty	Ply	Precision/27 Liberty Meadows/Harnett
					I57341318
J0323-1276	EI1	GABLE	1	1	
					Job Reference (optional)

0-11-8

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:30 2023 Page 1 ID:3YJEg u8zX16RsP?VvW V6zd0wB-00?RVmR8golTm?p b503OB8AUMfvITXHBGmBqAzY6dR

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

Scale: 1/4"=1"



	1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	₁ 16-0-0	17-4-0 ₁	18-8-0	20-0-0	21-4-0	22-8-0	1 24-0-0	25-4-0	26-8-0	₁ 28-0-0 28-6-β	
	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0 0-6-8	
LOAD	ING (ps	·t/		SPACIN	G	2-0-0		C	SI.			DEFL.	in	(loc)	l/defl	L/d		DI	ATES		GRIP	_
		,	_		-									٠,	i/deli							
TCLL	40.	.0	F	Plate Gri	p DOL	1.00)	TO	0.0)6	\	/ert(LL)	n/a	-	n/a	999		M	T20	2	244/190	
TCDL	10.	.0	L	umber [DOL	1.00)	B	0.0)1	\	/ert(CT)	n/a	-	n/a	999						
BCLL	0.	.0	F	Rep Stre	ss Incr	YES	;	W	B 0.0)3	H	Horz(CT)	0.00	25	n/a	n/a						
BCDL	5	.0		Code IR	C2015/T	PI2014		M	atrix-R									W	eight: 12	24 lb	FT = 20%F, 11%I	Ε

LUMBER-BRACING-

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

2x4 SP No.3(flat) 2x4 SP No.3(flat) 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. All bearings 28-6-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 48, 25, 47, 46, 45, 44, 43, 42, 41, 40, 39, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26

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

NOTES-

OTHERS

- 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.





Job	Truss	Truss Type	Qty	Ply	Precision/27 Liberty Meadows/Harnett
10222 1276	ET2	GABLE	1	1	I57341319
J0323-1276	E12	GABLE	1	1	Job Reference (optional)

0-11-8

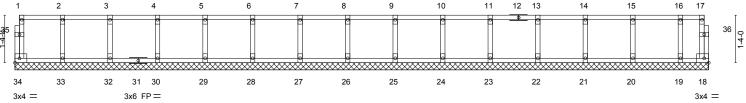
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:31 2023 Page 1

ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-UCZpj6SmR5tKO9OA9pYIwOhLDm?A1wnRQwWIMczY6dQ

0-11-8



Scale: 3/8"=1"



	-8-0	8-0-0 9-4-0 1-4-0 1-4-0	10-8-0 1-4-0 1-4-0		<u>6-0-0 </u>
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 0.06 BC 0.01 WB 0.03 Matrix-R	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	(/	PLATES GRIP MT20 244/190 Weight: 86 lb 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, 2x4 SP No.1(flat) BOT CHORD except end verticals. 2x4 SP No.3(flat) **WEBS BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 19-5-8.

2x4 SP No.3(flat)

(lb) - Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 32, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19

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

NOTES-

OTHERS

- 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.



Job	Truss	Truss Type	Qty	Ply	Precision/27 Liberty Meadows/Harnett
10000 4070	504				I57341320
J0323-1276	F01	Floor	4	1	Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:33 2023 Page 1 ID:3YJEg u8zX16RsP?VvW V6zd0wB-RbhZ8oT0zj72dTYZGEam0pmRZaUQVizktE?rRUzY6dO

0-1-8

HI-3-0

2-0-4 0-9-0

2-2-12

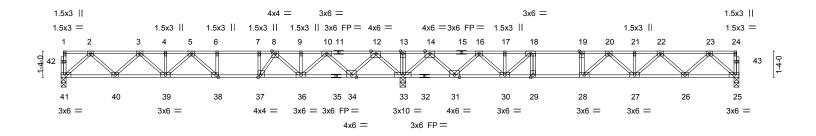
3460

6-0-0 oc bracing: 34-36,33-34,31-33,30-31.

Structural wood sheathing directly applied, except end verticals.

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

0-1-8 Scale = 1:58.6



ŀ		17-4-12		17-1-4	
Plate Off	sets (X,Y)	[37:0-1-8,Edge], [38:0-1-8,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 0.97	Vert(LL) -0.22 27-28 >919 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.86	Vert(CT) -0.30 27-28 >679 360	
BCLL	0.0	Rep Stress Incr YES	WB 0.56	Horz(CT) 0.06 25 n/a n/a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 184 lb FT = 20%F, 11%E

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x4 SP No.1(flat) *Except* TOP CHORD

15-24: 2x4 SP 2400F 2.0E(flat) 2x4 SP No.1(flat) *Except*

25-32: 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.3(flat)

BOT CHORD

REACTIONS.

(size) 41=0-3-0, 25=0-3-0, 33=0-3-8

Max Grav 41=839(LC 3), 25=841(LC 4), 33=2184(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1491/0, 3-4=-2414/0, 4-5=-2414/0, 5-6=-2597/0, 6-7=-2597/0, 7-8=-2597/0,

8-9=-1806/70, 9-10=-1806/70, 10-12=-462/549, 12-13=0/2124, 13-14=0/2124,

14-16=-668/787, 16-17=-1903/301, 17-18=-1903/301, 18-19=-2577/0, 19-20=-2577/0,

20-21=-2426/0, 21-22=-2426/0, 22-23=-1494/0

BOT CHORD 40-41=0/903, 39-40=0/2059, 38-39=0/2624, 37-38=0/2597, 36-37=0/2266,

34-36=-293/1230, 33-34=-992/0, 31-33=-1132/0, 30-31=-513/1405, 29-30=0/2577,

28-29=0/2577, 27-28=0/2632, 26-27=0/2068, 25-26=0/904

WEBS 2-41=-1200/0, 2-40=0/819, 3-40=-790/0, 3-39=0/482, 12-33=-1566/0, 12-34=0/1182,

10-34=-1133/0, 10-36=0/850, 5-39=-286/16, 5-38=-363/174, 8-36=-701/0, 8-37=0/905, 7-37=-566/0, 23-25=-1201/0, 23-26=0/821, 22-26=-798/0, 22-27=0/488, 14-33=-1538/0,

14-31=0/1170, 16-31=-1116/0, 16-30=0/752, 18-30=-1224/0, 20-27=-280/60,

20-28=-447/82, 18-29=0/292

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 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.



March 23,2023



Job	Truss	Truss Type	Qty	Ply	Precision/27 Liberty Meadows/Harnett
10000 4070	F00	Floor	2		I57341321
J0323-1276	F02	Floor	3	1	Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:34 2023 Page 1 ID:3YJEg u8zX16RsP?VvW V6zd0wB-vnFxL8Uek0FvFd7lqx5?Y1Jfq rXE9lt6ukPzxzY6dN

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

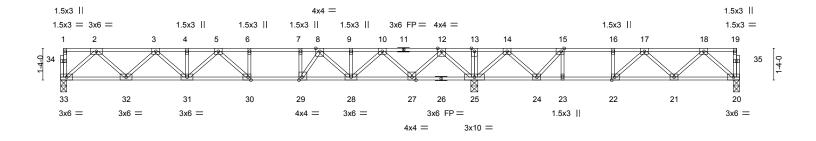
Rigid ceiling directly applied or 6-0-0 oc bracing.

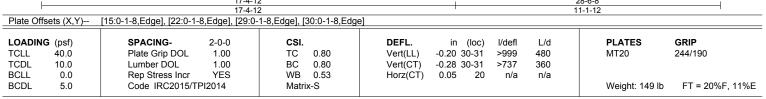
except end verticals.

0-1-8 HL_1-3-0

2-0-4 __{_}0-9-0

1-0-4 2-0-0





TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

2x4 SP No.3(flat)

(size) 33=0-3-0, 20=0-3-0, 25=0-3-8 Max Grav 33=870(LC 10), 20=551(LC 4), 25=1787(LC 1)

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

TOP CHORD 2-3=-1558/0, 3-4=-2542/0, 4-5=-2542/0, 5-6=-2818/0, 6-7=-2818/0, 7-8=-2818/0,

8-9=-2111/0, 9-10=-2111/0, 10-12=-826/0, 12-13=0/1418, 13-14=0/1418,

14-15=-650/619, 15-16=-1081/304, 16-17=-1081/304, 17-18=-883/0

32-33=0/938, 31-32=0/2155, 30-31=0/2787, 29-30=0/2818, 28-29=0/2533, 27-28=0/1567, **BOT CHORD**

25-27=-305/58, 24-25=-893/218, 23-24=-304/1081, 22-23=-304/1081, 21-22=-76/1124,

20-21=0/581

WEBS 2-33=-1246/0, 2-32=0/863, 3-32=-831/0, 3-31=0/526, 5-31=-333/0, 5-30=-218/326,

7-29=-478/0, 12-25=-1482/0, 12-27=0/1109, 10-27=-1068/0, 10-28=0/779, 8-28=-620/0,

18-20=-770/0, 18-21=-19/421, 17-21=-334/119, 17-22=-362/0, 15-23=0/294,

14-25=-959/0, 14-24=0/763, 8-29=0/756, 15-24=-884/0

NOTES-

REACTIONS.

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 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.





Job	Truss	Truss Type	Qty	Ply	Precision/27 Liberty Meadows/Harnett
J0323-1276	F03	FLOOR			l57341322
30323-1276	F03	FLOOR	9	'	Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:35 2023 Page 1 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-N_pKZUVGVKOmtnixOfcE5EsydNDQzbX0LYUyWNzY6dM

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

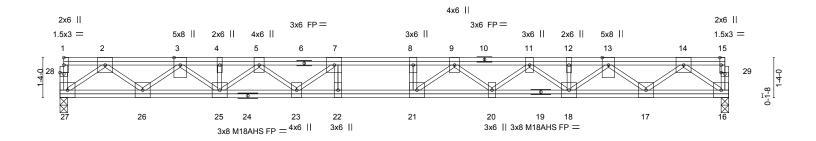
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0-1-8 H | 1-3-0

2-3-0

0-1-8 Scale = 1:38.3



22-3-0 Plate Offsets (X,Y)--[15:0-3-0,Edge], [28:0-1-8,0-0-8], [29:0-1-8,0-0-8] SPACING-**PLATES GRIP** LOADING (psf) DEFL. (loc) I/def L/d 244/190 TCLL 40.0 Plate Grip DOL 1.00 TC 0.29 Vert(LL) -0.32 21 >820 480 MT20 TCDL 10.0 Lumber DOL 1.00 ВС 0.63 Vert(CT) -0.44 21 >596 360 M18AHS 186/179 BCLL 0.0 Rep Stress Incr YES WB 0.62 Horz(CT) 0.05 16 n/a n/a Code IRC2015/TPI2014 FT = 20%F. 11%E **BCDL** 5.0 Weight: 177 lb Matrix-S

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

WEBS 2x4 SP No.3(flat)

> (size) 27=0-3-0, 16=0-3-0 Max Grav 27=1203(LC 1), 16=1203(LC 1)

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

TOP CHORD 2-3=-2456/0, 3-4=-4314/0, 4-5=-4314/0, 5-7=-5453/0, 7-8=-5953/0, 8-9=-5953/0,

9-11=-5456/0, 11-12=-4309/0, 12-13=-4309/0, 13-14=-2456/0

BOT CHORD $26-27=0/1471,\ 25-26=0/3495,\ 23-25=0/5013,\ 22-23=0/5953,\ 21-22=0/5953,\ 20-21=0/5834,$

18-20=0/5027, 17-18=0/3494, 16-17=0/1472

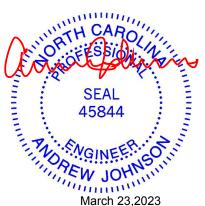
WFBS 2-27=-1819/0, 2-26=0/1306, 3-26=-1375/0, 3-25=0/1063, 5-25=-906/0, 5-23=0/717, 7-23=-941/0, 14-16=-1819/0, 14-17=0/1306, 13-17=-1373/0, 13-18=0/1057,

11-18=-930/0, 11-20=0/568, 9-20=-536/0, 9-21=-298/676, 8-21=-288/42

NOTES-

REACTIONS.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 6x6 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 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.





Γ	Job	Truss	Truss Type	Qty	Ply	Precision/27 Liberty Meadows/Harnett
	10000 4070	F0.4				157341323
	J0323-1276	F04	Floor	ь	1	Job Reference (optional)
						Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:36 2023 Page 1 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-rAMimpWvGeWdVwH8yM7TdSO4SnYli38AZCDW2pzY6dL

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 Scale = 1:32.9

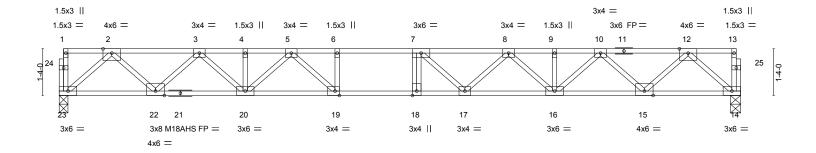


Plate Offsets (X,Y)--[19:0-1-8,Edge] **GRIP** LOADING (psf) SPACING-CSI. DEFL. (loc) L/d **PLATES** 244/190 TCLL 40.0 Plate Grip DOL 1.00 TC 0.48 Vert(LL) -0.27 18 >842 480 MT20 TCDL 10.0 Lumber DOL 1.00 ВС 0.69 Vert(CT) -0.37 18 >615 360 M18AHS 186/179 **BCLL** 0.0 Rep Stress Incr YES WB 0.54 0.06 Horz(CT) 14 n/a n/a Code IRC2015/TPI2014 FT = 20%F. 11%E **BCDL** 5.0 Weight: 103 lb Matrix-S

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 23=0-3-0, 14=0-3-8

Max Grav 23=1050(LC 1), 14=1050(LC 1)

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

2-3=-1952/0, 3-4=-3301/0, 4-5=-3301/0, 5-6=-4143/0, 6-7=-4143/0, 7-8=-3998/0,

8-9=-3296/0, 9-10=-3296/0, 10-12=-1951/0

BOT CHORD 22-23=0/1144, 20-22=0/2724, 19-20=0/3756, 18-19=0/4143, 17-18=0/4143, 16-17=0/3795,

15-16=0/2729, 14-15=0/1143

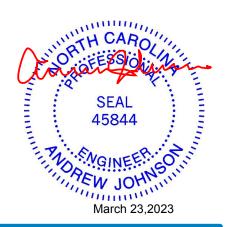
2-23=-1521/0, 2-22=0/1123, 3-22=-1073/0, 3-20=0/785, 5-20=-617/0, 5-19=0/809, WFBS

6-19=-366/0, 12-14=-1519/0, 12-15=0/1124, 10-15=-1081/0, 10-16=0/771, 8-16=-679/0,

8-17=0/446, 7-17=-530/153

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.



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 chore 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	Precision/27 Liberty Meadows/Harnett
			_		157341324
J0323-1276	F05	FLOOR	2	1	
					Job Reference (optional)

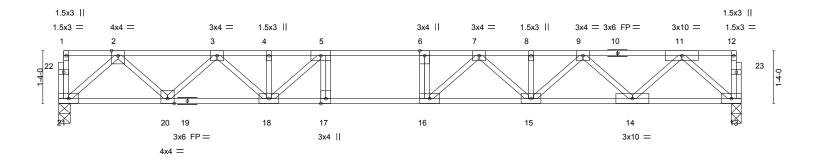
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:37 2023 Page 1 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-JMw4_9WX1xeU64rKV3eiAfxFLBrxRXgJosz3aGzY6dK

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

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

except end verticals.





			17-3-0 17-3-0	
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 0.47	Vert(LL) -0.23 15-16 >887 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.89	Vert(CT) -0.31 15-16 >663 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.45	Horz(CT) 0.05 13 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 94 lb FT = 20%F, 11%E

TOP CHORD

BOT CHORD

LUMBER-BRACING-

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP No.1(flat)

2x4 SP No.3(flat) WEBS

> 21=0-3-8, 13=0-3-0 Max Grav 21=929(LC 1), 13=929(LC 1)

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

TOP CHORD 2-3=-1690/0, 3-4=-2767/0, 4-5=-2767/0, 5-6=-3229/0, 6-7=-3229/0, 7-8=-2794/0, 8-9=-2794/0, 9-11=-1685/0 **BOT CHORD** 20-21=0/1006, 18-20=0/2339, 17-18=0/3229, 16-17=0/3229, 15-16=0/3101, 14-15=0/2342, 13-14=0/1005 11-13=-1335/0, 11-14=0/947, 9-14=-913/0, 9-15=0/615, 7-15=-417/0, 7-16=-130/522, 6-16=-269/6, 2-21=-1336/0, **WEBS**

2-20=0/951, 3-20=-903/0, 3-18=0/582, 5-18=-858/0

NOTES-

REACTIONS.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x6 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.



Job	Truss	Truss Type	Qty	Ply	Precision/27 Liberty Meadows/Harnett
			_		I57341325
J0323-1276	F06	Floor	2	1	
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:38 2023 Page 1 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-nYUSBVX9oFmKkEQW3nAxjtUMtbDFA?wT1Wic6izY6dJ

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

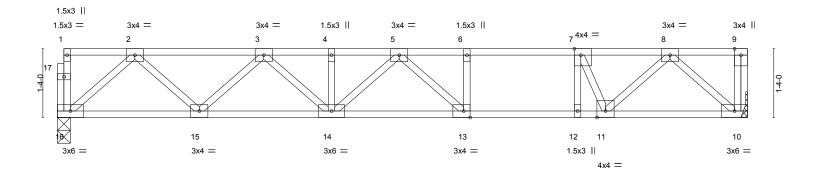
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.





Scale = 1:22.3



-			13-4-8 13-4-8		—
Plate Offsets (X,Y)	[7:0-1-8,Edge], [13:0-1-8,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 0.74	Vert(LL) -0.19 13-14 >820	480 MT20 244/190	
TCDL 10.0	Lumber DOL 1.00	BC 0.75	Vert(CT) -0.26 13-14 >603	360	
BCLL 0.0	Rep Stress Incr YES	WB 0.39	Horz(CT) 0.02 10 n/a	n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 72 lb FT = 20	%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1(flat)

BOT CHORD 2x4 SP 2400F 2.0E(flat) **WEBS** 2x4 SP No.3(flat)

REACTIONS. (size) 16=0-3-0, 10=Mechanical

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

TOP CHORD 2-3=-1220/0, 3-4=-1896/0, 4-5=-1896/0, 5-6=-1704/0, 6-7=-1704/0, 7-8=-1302/0 BOT CHORD

15-16=0/760, 14-15=0/1670, 13-14=0/1949, 12-13=0/1704, 11-12=0/1704, 10-11=0/716 WEBS

2-16=-1010/0, 2-15=0/639, 3-15=-626/0, 3-14=0/308, 5-13=-412/72, 7-12=0/568,

8-10=-953/0, 8-11=0/815, 7-11=-1014/0

Max Grav 16=716(LC 1), 10=722(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.



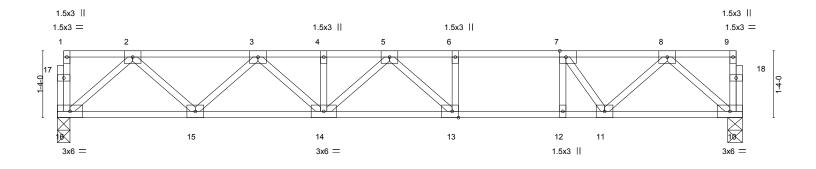


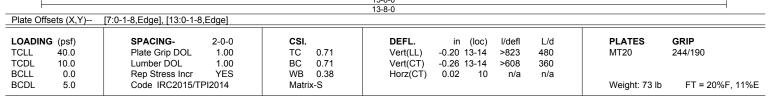
Job	Truss	Truss Type	Qty	Ply	Precision/27 Liberty Meadows/Harnett
10000 4070	F07	Flore			157341326
J0323-1276	F07	Floor	4	1	Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:39 2023 Page 1 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-Fl2qOrYnZZuBMO?jdUhAF40X2?Z4vTNcGASAf8zY6dI







LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD except end verticals.

WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-3-0, 10=0-3-8 Max Grav 16=732(LC 1), 10=732(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1255/0, 3-4=-1964/0, 4-5=-1964/0, 5-6=-1816/0, 6-7=-1816/0, 7-8=-1303/0

BOT CHORD 15-16=0/779, 14-15=0/1721, 13-14=0/2036, 12-13=0/1816, 11-12=0/1816, 10-11=0/736 **WEBS**

2-16=-1034/0, 2-15=0/662, 3-15=-648/0, 3-14=0/330, 5-13=-393/101, 7-12=0/417,

8-10=-975/0, 8-11=0/789, 7-11=-918/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 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.



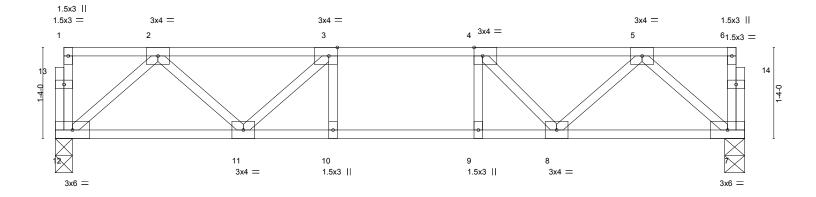
Job	Truss	Truss Type	Qty	Ply	Precision/27 Liberty Meadows/Harnett
J0323-1276	F08	Floor	1	1	157341327
00020-1270	1 00	11001	'	'	Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:40 2023 Page 1 ID:3YJEg u8zX16RsP?VvW V6zd0wB-kxcDcBZPKs02zYavBCCPolZpnO FezYmUqBjBazY6dH

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

except end verticals.





						10-1-0					<u> </u>
Plate Off	sets (X,Y)	[3:0-1-8,Edge], [4:0-1-8,E	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	0.26	Vert(LL)	-0.05 10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.40	Vert(CT)	-0.06 10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01 7	n/a	n/a		
BCDL	5.0	Code IRC2015/TI	PI2014	Matri	x-S	, ,				Weight: 53 lb	FT = 20%F, 11%E

TOP CHORD

10-1-0

LUMBER-**BRACING-**

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

WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-3-0, 7=0-3-8 Max Grav 12=535(LC 1), 7=535(LC 1)

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

TOP CHORD 2-3=-833/0, 3-4=-1083/0, 4-5=-838/0

BOT CHORD 11-12=0/561, 10-11=0/1083, 9-10=0/1083, 8-9=0/1083, 7-8=0/553 $2-12=-745/0,\ 2-11=0/377,\ 3-11=-379/0,\ 5-7=-734/0,\ 5-8=0/396,\ 4-8=-397/0$ **WEBS**

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) 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.



Job Truss Truss Type Qty Ply Precision/27 Liberty Meadows/Harnett 157341328 Floor J0323-1276 FG1

Fayetteville, NC - 28314, Comtech, Inc.

Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:42 2023 Page 1 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-gKkz1tafrTGmDrkHldEttje?TCYg6mN2y8gqFTzY6dF

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

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

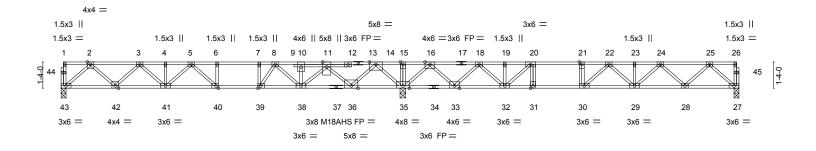
except end verticals.

0-1-8

HI 1-3-0 2-0-4 0-9-0

2-2-12

0-1-8 Scale = 1:58.6



ŀ			17-4-12 17-4-12			-			34-6-0 17-1-4		
Plate Off	sets (X,Y)	[39:0-1-8,Edge], [40:0-1-							17-1-4		
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc	l/defl	L/d	PLATES	GRIP
TCLL	40.Ó	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.23 29-30	>878	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.31 29-30	>648	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.06 27	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matrix	K-S	' '				Weight: 187 lb	FT = 20%F, 11%E

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x4 SP No.1(flat) *Except* TOP CHORD

17-26: 2x4 SP 2400F 2.0E(flat) 2x4 SP No.1(flat) *Except* 27-34: 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.3(flat) *Except* 14-36: 2x4 SP No.2(flat)

REACTIONS. (size) 43=0-3-0, 27=0-3-0, 35=0-3-8

Max Grav 43=953(LC 3), 27=765(LC 4), 35=2938(LC 1)

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

TOP CHORD 2-3=-1739/0, 3-4=-2892/0, 4-5=-2892/0, 5-6=-3424/0, 6-7=-3424/0, 7-8=-3424/0,

8-10=-3016/0, 10-11=-3016/0, 11-14=-1021/0, 14-15=0/3063, 15-16=0/3063, 16-18=0/1580, 18-19=-1140/968, 19-20=-1140/968, 20-21=-2003/416, 21-22=-2003/416,

22-23=-2104/0, 23-24=-2104/0, 24-25=-1326/0

BOT CHORD 42-43=0/1033, 41-42=0/2417, 40-41=0/3231, 39-40=0/3424, 38-39=0/3244, 36-38=0/2605,

35-36=-1179/0, 33-35=-2004/0, 32-33=-1239/576, 31-32=-416/2003, 30-31=-416/2003,

29-30=-86/2221, 28-29=0/1826, 27-28=0/816

WEBS 2-43=-1373/0, 2-42=0/982, 3-42=-943/0, 3-41=0/646, 14-35=-2577/0, 14-36=0/2181,

11-36=-2209/0, 11-38=0/620, 5-41=-460/0, 5-40=-39/469, 8-38=-404/0, 8-39=0/599,

7-39=-391/0, 25-27=-1084/0, 25-28=0/710, 24-28=-695/0, 24-29=-73/378, 16-35=-1628/0, 16-33=0/1269, 18-33=-1212/0, 18-32=0/831, 19-32=0/283,

20-32=-1442/0, 22-30=-637/0, 20-31=0/355

NOTES-

BOT CHORD

- 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) 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) 879 lb down at 13-6-4 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



March 23,2023

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chore 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 Precision/27 Liberty Meadows/Harnett 157341328 Floor J0323-1276 FG1

Comtech, Inc, Fayetteville, NC - 28314,

Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:42 2023 Page 2 ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-gKkz1tafrTGmDrkHldEttje?TCYg6mN2y8gqFTzY6dF

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 27-43=-10, 1-26=-100

Concentrated Loads (lb) Vert: 11=-799(B)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Precision/27 Liberty Meadows/Harnett 157341329 J0323-1276 FG2 FLOOR GIRDER Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Mar 23 08:03:43 2023 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:3YJEg_u8zX16RsP?VvW_V6zd0wB-8WHLEDblcnOdg?JUsKl6QwBNic2TrIMCAoQNovzY6dE 0-1-8 Scale = 1:10.8 3x6 II 3x6 II 3x6 II 2x6 II 2 3 3x4 =1.5x3 || 7 3x6 =1.5x3 || 3x6 = Plate Offsets (X,Y)--[4:0-3-0,Edge], [9:0-1-8,0-0-8] LOADING (psf) SPACING-CSI. **DEFL** (loc) I/def L/d **PLATES** GRIP TCLL 40.0 Plate Grip DOL 1.00 TC 0.09 Vert(LL) -0.01 6-7 >999 480 244/190 MT20 TCDL 10.0 Lumber DOL 1.00 ВС 0.24 Vert(CT) -0.02 6-7 >999 360 **BCLL** 0.0 Rep Stress Incr NO WB 0.31 Horz(CT) 0.01 n/a n/a Code IRC2015/TPI2014 Weight: 36 lb FT = 20%F, 11%E **BCDL** 5.0 Matrix-S **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 8=Mechanical, 5=0-3-8 Max Grav 8=899(LC 1), 5=893(LC 1)

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

TOP CHORD 2-3=-1036/0

BOT CHORD 7-8=0/1036, 6-7=0/1036, 5-6=0/1036

2-8=-1325/0, 3-5=-1321/0 WEBS

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.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 650 lb down at 1-10-4, and 667 Ib down at 3-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) 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: 5-8=-10, 1-4=-100 Concentrated Loads (lb)

Vert: 2=-622(B) 3=-622(B)



Structural wood sheathing directly applied or 5-3-8 oc purlins,

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

except end verticals.

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

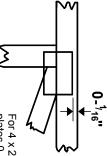


Symbols

PLATE LOCATION AND ORIENTATION



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



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

connector plates required direction of slots in This symbol indicates the

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

PLATE SIZE



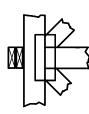
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

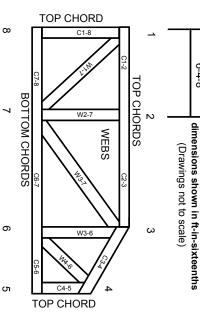
Industry Standards:

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

DSB-89: ANSI/TPI1:

Numbering System

6-4-8



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

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

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

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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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- 9 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 camber for dead load deflection responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 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.