

Trenco

818 Soundside Rd Edenton, NC 27932

Re: J0723-3720

Lot 71 Liberty Meadows

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: I67108831 thru I67108852

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



July 26,2024

Gilbert, Eric

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

Job Truss Truss Type Qty Lot 71 Liberty Meadows 167108831 J0723-3720 A1-GE COMMON SUPPORTED GAB Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:38 2024 Page 1

ID:jUIColTBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Scale = 1:54.8

30-0-0 1-2-8 1-2-8 15-0-0 15-0-0 1-2-8

5x5 = 6.00 12 10 4x6 / a 4x6 > 12 7⁸ 13 14 6 15 16 17 3x4 =3x4 =

30-0-0 LOADING (psf) SPACING-CSI. DEFL. L/d **PLATES GRIP** 2-0-0 (loc) I/def 20.0 Vert(LL) 0.00 120 244/190 **TCLL** Plate Grip DOL 1.15 TC 0.04 18 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.02 Vert(CT) 0.00 18 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.00 18 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 231 lb FT = 20%

27 26 25

4x6 =

24

23

22

21

20

BRACING-LUMBER-

31

30

29

TOP CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. 2x6 SP No.1 **BOT CHORD** BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.2

28

REACTIONS. All bearings 30-0-0.

(lb) -

33

32

Max Uplift All uplift 100 lb or less at joint(s) 2, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18 Max Grav All reactions 250 lb or less at joint(s) 2, 27, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18

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

9-10=-106/268, 10-11=-106/268 TOP CHORD

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) gable end zone 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

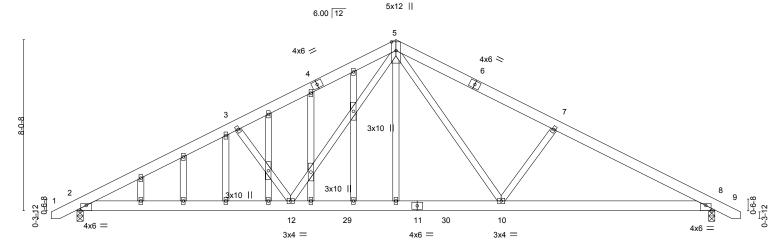
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





ID:jUIColTBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 1-2-8 1-2-8 7-5-2 7-6-14 15-0-0 1-2-8

Scale = 1:54.2



	<u>'</u>	10-0-9				9-10-13		<u>'</u>		10-0-9	<u>'</u>
Plate Off	sets (X,Y)	[2:0-3-0,Edge], [8:0-3-0,E	dge]								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.12 10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.20 10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.04	3 n/a	n/a		
BCDL	10.0	Code IRC2015/TF	12014	Matr	ix-S	Wind(LL)	0.06 12	>999	240	Weight: 236 lb	FT = 20%
						\ '					

BRACING-

TOP CHORD

BOT CHORD

19-11-7

LUMBER-

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

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

Max Horz 2=162(LC 12)

Max Uplift 2=-277(LC 12), 8=-277(LC 13) Max Grav 2=1258(LC 1), 8=1258(LC 1)

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

10-0-9

2-3=-2076/762, 3-5=-1837/752, 5-7=-1837/752, 7-8=-2076/762 TOP CHORD **BOT CHORD**

2-12=-545/1787, 10-12=-207/1173, 8-10=-550/1787

WEBS 5-10=-232/708, 7-10=-442/381, 5-12=-232/708, 3-12=-442/381

- 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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=277, 8=277.



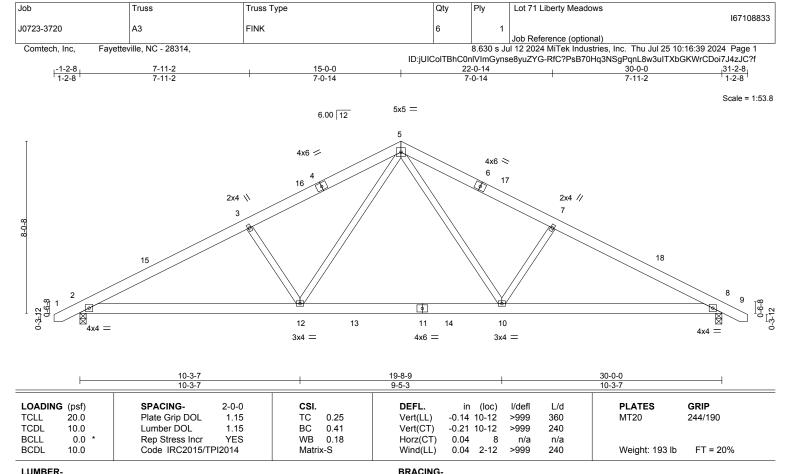
30-0-0

Structural wood sheathing directly applied or 5-2-8 oc purlins.

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

July 26,2024





TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=104(LC 11)

Max Uplift 2=-88(LC 12), 8=-88(LC 13) Max Grav 2=1258(LC 1), 8=1258(LC 1)

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

2-3=-2051/461, 3-5=-1838/477, 5-7=-1838/477, 7-8=-2051/461 TOP CHORD

BOT CHORD 2-12=-287/1789, 10-12=-88/1190, 8-10=-302/1761

WEBS 3-12=-443/272, 5-12=-130/758, 5-10=-130/758, 7-10=-443/272

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) -1-0-2 to 3-4-11, Interior(1) 3-4-11 to 15-0-0, Exterior(2) 15-0-0 to 19-4-13, Interior(1) 19-4-13 to 31-0-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.



Structural wood sheathing directly applied or 5-1-15 oc purlins.

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lot 71 Liberty Meadows 167108834 J0723-3720 A4 COMMON 5 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:39 2024 Page 1 ID:jUIColTBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 19-8-9 24-6-0 30-0-0 31-2-8 5-6-0 5-6-0 5-6-0 4-0-0 4-8-9 4-9-7 5-6-0 Scale = 1:54.6 4x6 =6.00 12 2x4 | 3x4 = 3x4 =2x4 || 4x6 > 8 9 3 2x4 > 2x4 / 5-6-0 8-0-0 9-9-0 0 0 15 13 3x4 4x4 4x4 =3x10 =3x10 =4x6 =

Plate Offsets	(X,Y)	[1:0-0-6,Edge], [6:0-3-0,E	Edge], [13:0-2-	0,0-1-8], [15:	0-2-0,0-1-8]							
LOADING (p	osf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	0.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.21	1-15	>999	360	MT20	244/190
TCDL 1	0.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.34	1-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.05	11	n/a	n/a		
BCDL 1	0.0	Code IRC2015/Ti	PI2014	Matri	x-S	Wind(LL)	0.13	1-15	>999	240	Weight: 210 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

19-8-9

LUMBER-

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

REACTIONS. (size) 1=Mechanical, 11=0-3-8

Max Horz 1=-106(LC 10) Max Uplift 1=-72(LC 12), 11=-88(LC 13) Max Grav 1=1228(LC 2), 11=1289(LC 2)

11-0-0

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-2336/556, 2-3=-1938/410, 3-5=-1546/420, 5-6=-36/506, 6-7=-38/503, TOP CHORD

7-9=-1548/412, 9-10=-1935/395, 10-11=-2311/511 1-15=-407/2098, 13-15=-155/1632, 11-13=-362/2024 BOT CHORD

WEBS 9-13=0/585, 10-13=-563/235, 3-15=-7/596, 2-15=-591/283, 5-7=-2190/491

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) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 15-0-0, Exterior(2) 15-0-0 to 19-1-12, Interior(1) 19-1-12 to 31-0-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11.

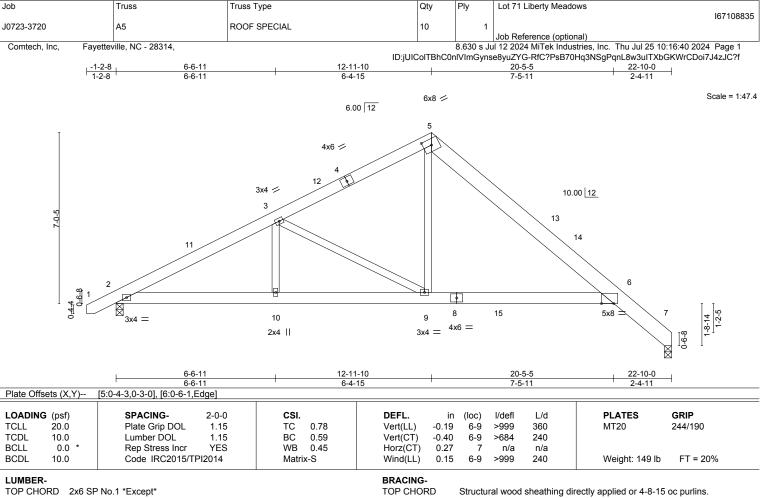


30-0-0

Structural wood sheathing directly applied or 4-9-10 oc purlins.

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





BOT CHORD

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

2x6 SP No.1 *Except* TOP CHORD

5-7: 2x8 SP No.1 2x6 SP No.1

BOT CHORD WEBS 2x4 SP No.2

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

Max Horz 2=192(LC 11)

Max Uplift 7=-37(LC 13), 2=-76(LC 12) Max Grav 7=920(LC 20), 2=976(LC 1)

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

2-3=-1527/321, 3-5=-1051/290, 5-6=-1123/269, 6-7=-546/162 TOP CHORD

BOT CHORD 2-10=-155/1281, 9-10=-155/1281, 6-9=0/879

WEBS 3-9=-526/179, 5-9=-32/581

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) -1-0-10 to 3-4-3, Interior(1) 3-4-3 to 12-11-10, Exterior(2) 12-11-10 to 17-4-7, Interior(1) 17-4-7 to 22-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.



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Job Truss Truss Type Qty Ply Lot 71 Liberty Meadows 167108836 J0723-3720 A6-GE **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:40 2024 Page 1 ID:jUIColTBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 12-11-10 22-10-0 6-6-11 6-4-15 7-5-11 2-4-11 Scale = 1:47.4 6x8 / 6.00 12 4x6 / 2x6 || 10 6 3x4 / 2x6 | 10,00 | 12 5 2x6 | 3 12 3x6 13 0.4-4 1-8-14 18 25 24 23 22 21 19 16 15 20 17 4x6 = 3x4 = 12-11-10 22-10-0 6-6-11 7-5-11 6-4-15 2-4-11 Plate Offsets (X,Y)--[9:0-4-3,0-3-0], [13:0-6-13,0-0-0] **GRIP** LOADING (psf) SPACING-CSI DEFL. in (loc) I/def L/d **PLATES** TCLL 20.0 Plate Grip DOL 1.15 TC 0.78 Vert(LL) -0.19 15-16 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.66 Vert(CT) -0.39 15-16 >695 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.17 Horz(CT) 0.23 14 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Wind(LL) 0.22 15-16 >999 240 Weight: 183 lb Matrix-S LUMBER-**BRACING-**TOP CHORD 2x6 SP No.1 *Except* Structural wood sheathing directly applied or 5-2-3 oc purlins. TOP CHORD **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

JOINTS

1 Brace at Jt(s): 26, 27, 16

9-14: 2x8 SP No.1 2x6 SP No.1

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

REACTIONS. (size) 14=0-3-8, 2=0-3-8

Max Horz 2=246(LC 11)

Max Uplift 14=-161(LC 13), 2=-229(LC 12) Max Grav 14=911(LC 1), 2=976(LC 1)

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

TOP CHORD 2-3=-1497/421, 3-4=-1426/470, 4-5=-1386/498, 5-6=-1039/353, 6-8=-998/400,

8-9=-942/429, 9-10=-991/428, 10-11=-1035/363, 11-12=-1116/311, 12-13=-1037/229,

13-14=-539/192

BOT CHORD 2-25=-286/1258, 24-25=-286/1258, 23-24=-286/1258, 22-23=-286/1258, 21-22=-286/1258,

20-21=-286/1258, 19-20=-286/1258, 17-19=-66/877, 16-17=-67/877, 15-16=-68/877,

13-15=-71/884

5-28=-517/263, 27-28=-484/239, 26-27=-488/244, 19-26=-493/243, 9-19=-247/592

WEBS

- 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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=161, 2=229.



July 26,2024

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Job Truss Truss Type Qty Ply Lot 71 Liberty Meadows 167108837 J0723-3720 B1-GE **GABLE** Job Reference (optional)

5x5 =

Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:41 2024 Page 1

ID:jUIColTBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 11-0-0 11-0-0

Scale = 1:78.1

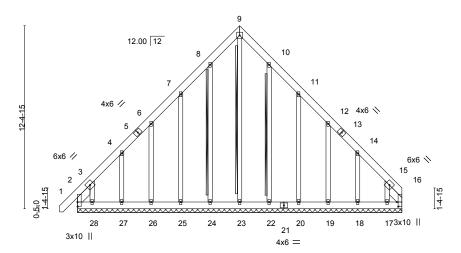


Plate Off	Plate Offsets (X,Y) [2:0-3-12,0-0-1], [3:0-0-0,0-0-0], [15:0-0-0,0-0-0], [16:0-3-12,0-1-1]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	` <u>í</u>	n/r	120	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	1	n/r	120			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	16	n/a	n/a			
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-S						Weight: 234 lb	FT = 20%	

LUMBER-

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

Left 2x6 SP No.1 1-5-1, Right 2x6 SP No.1 1-5-1 **SLIDER**

BRACING-

TOP CHORD **BOT CHORD WEBS**

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SPF No.2 - 9-23, 8-24, 10-22

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. All bearings 22-0-0.

Max Horz 2=360(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 24, 22 except 2=-278(LC 10),

16=-240(LC 11), 25=-155(LC 12), 26=-136(LC 12), 27=-153(LC 12), 28=-384(LC

12), 20=-158(LC 13), 19=-136(LC 13), 18=-152(LC 13), 17=-375(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 23, 24, 25, 26, 27, 22, 20, 19,

18, 17 except 2=567(LC 12), 16=555(LC 13), 28=261(LC 10)

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

TOP CHORD 2-3=-656/393, 3-4=-369/240, 14-15=-321/195, 15-16=-606/394 **BOT CHORD** 2-28=-224/346, 27-28=-226/348, 26-27=-227/348, 25-26=-227/348, 24-25=-228/348,

23-24=-228/348, 22-23=-228/348, 20-22=-228/348, 19-20=-227/348, 18-19=-227/347,

17-18=-226/347, 16-17=-224/344

WEBS 3-28=-286/346, 15-17=-286/343

NOTES-

- 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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 22 except (jt=lb) 2=278, 16=240, 25=155, 26=136, 27=153, 28=384, 20=158, 19=136, 18=152, 17=375.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required



July 26,2024

Job Truss Truss Type Qty Ply Lot 71 Liberty Meadows 167108838 J0723-3720 B2 COMMON 3 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:41 2024 Page 1

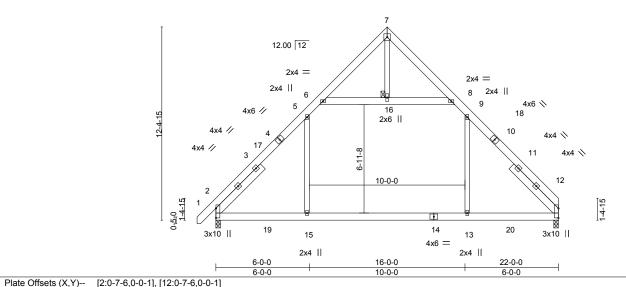
ID:jUIColTBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 6-0-0 6-0-0 16-0-0 22-0-0 5-0-0 5-0-0 6-0-0

> Scale = 1:74.0 5x5 =

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

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

1 Brace at Jt(s): 16



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 0.24	Vert(LL) -0.19 13-15 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.53	Vert(CT) -0.26 13-15 >999 240	
BCLL 0.0	Rep Stress Incr YES	WB 0.16	Horz(CT) 0.02 12 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.16 15 >999 240	Weight: 195 lb FT = 20%

BRACING-

JOINTS

TOP CHORD

BOT CHORD

LUMBER-

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

6-8: 2x6 SP No.1

SLIDER Left 2x6 SP No.1 4-3-0, Right 2x6 SP No.1 4-3-0

REACTIONS. (size) 2=0-3-8, 12=0-3-8

Max Horz 2=288(LC 9)

Max Uplift 2=-39(LC 12), 12=-33(LC 12) Max Grav 2=1197(LC 19), 12=1149(LC 19)

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

2-5=-1485/221, 5-6=-826/290, 6-7=-261/99, 7-8=-261/96, 8-9=-825/294,

9-12=-1481/220

BOT CHORD 2-15=-9/927, 13-15=-8/928, 12-13=-8/927

WEBS 9-13=0/693, 5-15=0/695, 6-16=-777/334, 8-16=-777/334

- 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) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 11-0-0, Exterior(2) 11-0-0 to 15-5-4, Interior(1) 15-5-4 to 22-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.



July 26,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lot 71 Liberty Meadows 167108839 J0723-3720 B3 Common 3 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:42 2024 Page 1

ID:jUIColTBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 21-8-8 22₋0-0 0-3-8 16-0-0 6-0-0 5-0-0 5-0-0 5-8-8

> Scale = 1:73.5 5x5 =

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

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

except end verticals.

1 Brace at Jt(s): 15

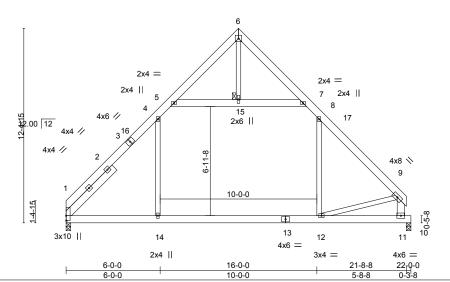


Plate Offsets	(X,Y)	[1:0-3-12,0-0-1]

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 0.25	Vert(LL) -0.20 12-14 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.27 12-14 >989 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.01 10 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.15 14 >999 240	Weight: 190 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

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

9-11,5-7: 2x6 SP No.1 **SLIDER** Left 2x6 SP No.1 4-4-4

REACTIONS. (size) 1=0-3-8, 10=0-3-8

Max Horz 1=283(LC 9)

Max Uplift 1=-32(LC 13), 10=-31(LC 12) Max Grav 1=1024(LC 20), 10=1007(LC 19)

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

TOP CHORD 1-4=-1352/212, 4-5=-762/290, 5-6=-254/98, 6-7=-259/99, 7-8=-772/291, 8-9=-1262/230,

9-11=-1137/209

1-14=-34/840, 12-14=-33/841, 11-12=-105/328 **BOT CHORD**

WEBS 4-14=0/572, 8-12=0/484, 9-12=-153/696, 5-15=-722/326, 7-15=-722/326

- 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) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 11-0-0, Exterior(2) 11-0-0 to 15-5-4, Interior(1) 15-5-4 to 21-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10



July 26,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lot 71 Liberty Meadows 167108840 J0723-3720 B3-GRD COMMON Job Reference (optional)

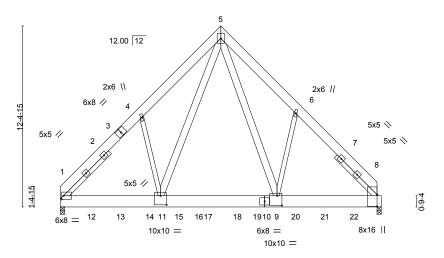
Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:42 2024 Page 1

ID:jUIColTBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 22₇0-0 0-3-8 16-1-10 5-6-14 5-5-2 5-1-10 5-6-14

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

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

Scale = 1:79.0 6x8 ||



6-10-4 14-10-4 6-10-4 6-10-4 Plate Offsets (X V)... [1:0.1.8 0.3.0] [8:0.9.11 0.0.0] [9:0.4.0 0.8.0] [11:0.5.0 0.7.8]

BRACING-

TOP CHORD

BOT CHORD

I late Oil	3C(3 (A, I)	[1.0-1-0,0-3-0], [0.0-3-11	, 0-0-0 j, [ə. 0-4 -	0,0 - 0-0], [1 1.	0-3-0,0-1-0								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.09	9-11	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.15	9-11	>999	240			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.02	8	n/a	n/a			
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S	Wind(LL)	0.02	9-11	>999	240	Weight: 803 lb	FT = 20%	

LUMBER-

TOP CHORD 2x8 SP No.1 **BOT CHORD** 2x10 SP 2400F 2.0E 2x4 SP No.2 *Except* **WEBS**

5-11,5-9: 2x6 SP No.1

SLIDER Left 2x4 SP No.2 4-4-4, Right 2x4 SP No.2 3-10-14

REACTIONS. (size) 8=0-3-8, 1=0-3-8

Max Horz 1=278(LC 24)

Max Uplift 8=-133(LC 8), 1=-131(LC 9) Max Grav 8=9892(LC 14), 1=9765(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-4=-10822/239, 4-5=-10194/382, 5-6=-9888/381, 6-8=-10595/241 **BOT CHORD** 1-11=-189/7107, 9-11=-80/4871, 8-9=-73/6902 **WEBS** 4-11=-258/1004, 5-11=-287/7300, 5-9=-291/7208, 6-9=-241/1150

NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-5-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=133, 1=131,
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1621 lb down at 2-0-0, 1621 lb down at 4-0-0, 1621 lb down at 6-0-0, 1621 lb down at 8-0-0, 891 lb down and 57 lb up at 8-0-12, 1621 lb down at 10-0-0, 891 lb down and 57 lb up at 10-0-12, 1621 lb down at 12-0-0, 891 lb down and 57 lb up at 12-0-12, 1621 lb down at 14-0-0, 891 lb down and 57 lb up at 14-0-12, 1621 lb down at 16-0-0, and 1621 lb down at 18-0-0, and 1621 lb down at 20-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others

LOAD CASE(S) Standard



Continued on page 2

M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

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Job Truss Truss Type Qty Ply Lot 71 Liberty Meadows 167108840 J0723-3720 B3-GRD COMMON 3 Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:43 2024 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: 1-5=-60, 5-8=-60, 1-8=-20

Concentrated Loads (lb)

Vert: 10=-1296(B=-406) 12=-406(B) 13=-406(B) 14=-406(B) 15=-1296(B=-406) 17=-1296(B=-406) 18=-1296(B=-406) 20=-406(B) 21=-406(B) 22=-406(B)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Lot 71 Liberty Meadows 167108841 J0723-3720 C1-GE COMMON SUPPORTED GAB | Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:43 2024 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:jUIColTBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 9-2-8 4-0-0 4-0-0 1-2-8 Scale = 1:28.9 4x4 = 10.00 12 _{2x4} || 5 0-11-14 0-4-12 4x8 || 4x8 || 2x4 || 2x4 || 2x4 || 8-0-0

			<u>'</u>			8-0-0				'			
LOADING (ps	,	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20	.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	6	n/r	120	MT20	244/190	
TCDL 10	.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	7	n/r	120			
BCLL 0	.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a			
BCDL 10	.0	Code IRC2015/TF	PI2014	Matri	x-P						Weight: 63 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS WEDGE

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

REACTIONS. All bearings 8-0-0.

Max Horz 2=127(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-143(LC 12), 8=-140(LC 13)

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

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 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 100 lb uplift at joint(s) 2, 6 except (jt=lb)
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6.



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

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty Ply Lot 71 Liberty Meadows 167108842 J0723-3720 C2-GRD COMMON GIRDER Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:44 2024 Page 1 ID:jUIColTBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 4-0-0 4-0-0 Scale = 1:27.4 4x4 = 2 10.00 12 3 0-11-14 0-11-14

7

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.01

3-4

>999

4 3x10 || 8

4x8 ||

240

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

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

Weight: 101 lb

FT = 20%

LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES GRIP** (loc) I/def 20.0 Plate Grip DOL -0.02 244/190 **TCLL** 1.15 TC 0.36 Vert(LL) 3-4 >999 360 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.54 Vert(CT) -0.03 3-4 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.37 Horz(CT) 0.01 3 n/a n/a

Matrix-P

6

LUMBER-

BCDL

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

10.0

WEDGE

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

REACTIONS. (size) 1=0-3-8, 3=0-3-8 Max Horz 1=-91(LC 23)

Max Uplift 1=-186(LC 8), 3=-168(LC 9)

Max Grav 1=2832(LC 2), 3=2542(LC 2)

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

Code IRC2015/TPI2014

4x8 ||

TOP CHORD 1-2=-2320/172, 2-3=-2320/172 BOT CHORD 1-4=-96/1615. 3-4=-96/1615

WEBS 2-4=-145/2987

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 0-7-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 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 100 lb uplift at joint(s) except (jt=lb) 1=186, 3=168.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1211 lb down and 88 lb up at 0-9-4, 1208 lb down and 92 lb up at 2-9-4, and 1208 lb down and 92 lb up at 4-9-4, and 1208 lb down and 92 lb up at 6-9-4 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: 1-2=-60, 2-3=-60, 1-3=-20



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lot 71 Liberty Meadows 167108842 COMMON GIRDER J0723-3720 C2-GRD **2** Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:44 2024 Page 2

Comtech, Inc, Fayetteville, NC - 28314,

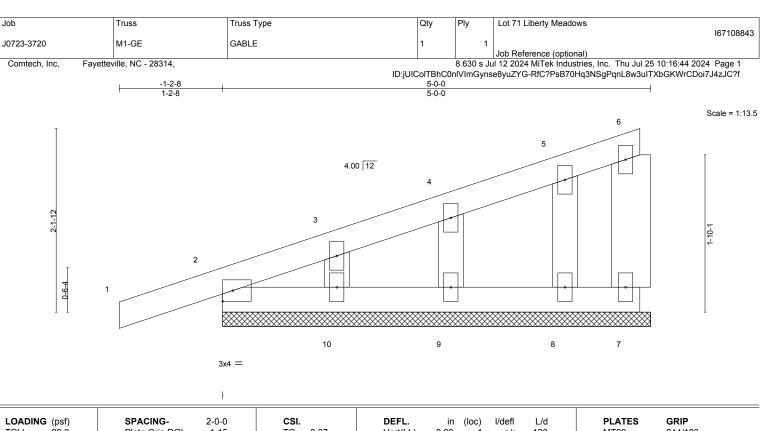
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LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 5=-1174(B) 6=-1170(B) 7=-1170(B) 8=-1170(B)



818 Soundside Road Edenton, NC 27932



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 0.07	Vert(LL) 0.00 1 n/r 120	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(CT) -0.00 1 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 24 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x6 SP No.1 WEBS **OTHERS** 2x4 SP No.2

REACTIONS. All bearings 5-0-0. Max Horz 2=96(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 10, 9, 8 Max Grav All reactions 250 lb or less at joint(s) 7, 2, 10, 9, 8

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) 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
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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 100 lb uplift at joint(s) 7, 2, 10, 9, 8.



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

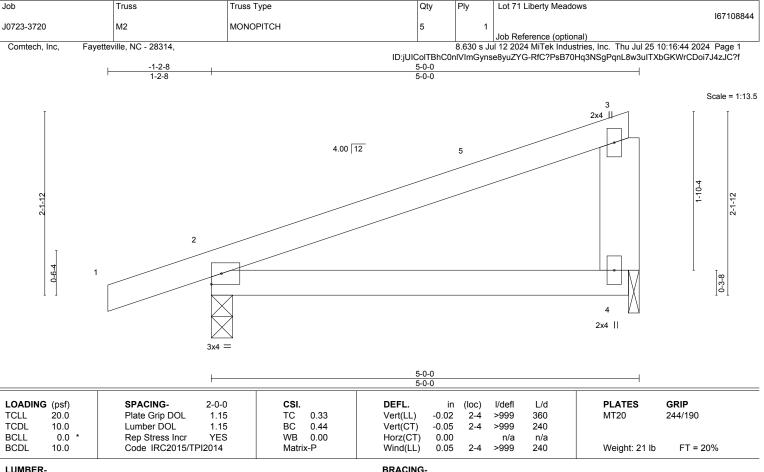
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





TOP CHORD

BOT CHORD

LUMBER-TOP CHORD BOT CHORD

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

WEBS 2x6 SP No.1

REACTIONS. 2=0-3-0, 4=0-1-8 (size) Max Horz 2=68(LC 8)

Max Uplift 2=-115(LC 8), 4=-76(LC 8) Max Grav 2=277(LC 1), 4=174(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 4-9-4 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 100 lb uplift at joint(s) 4 except (jt=lb) 2=115.



Structural wood sheathing directly applied or 5-0-0 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. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lot 71 Liberty Meadows 167108845 J0723-3720 M3 MONOPITCH Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:45 2024 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:jUIColTBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 5-0-0 5-0-0 Scale = 1:13.5 2x4 L 4.00 12 1-10-4 0-6-4 0-3-8 3 2x4 || 3x4 5-0-0 LOADING (psf) SPACING-2-0-0 DEFL. L/d **PLATES** GRIP CSI (loc) Vert(LL) -0.02 360 244/190 **TCLL** Plate Grip DOL 1.15 TC 0.31 1-3 >999 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.37 Vert(CT) -0.05 >999 240 1-3 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a Weight: 19 lb **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-P Wind(LL) 0.05 >999 240 FT = 20% LUMBER-BRACING-

TOP CHORD

BOT CHORD

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

WEBS 2x6 SP No.1

REACTIONS. 1=0-3-0, 3=0-1-8 (size) Max Horz 1=59(LC 8)

Max Uplift 1=-60(LC 8), 3=-83(LC 8) Max Grav 1=186(LC 1), 3=186(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) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber
- 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) 3 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) 3.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

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

except end verticals.



Job Truss Truss Type Qty Ply Lot 71 Liberty Meadows 167108846 J0723-3720 P1-GE **GABLE** Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:45 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:jUICoITBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 11-2-8 5-0-0 5-0-0 1-2-8 5-0-0 1-2-8

Scale = 1:22.7

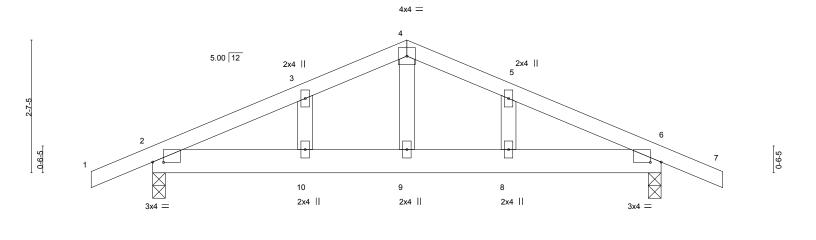


Plate Offsets (X,Y)	[2:0-2-9,0-0-1], [6:0-2-9,0-0-1]	-0-0	3-0-0	
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.13	DEFL. in (loc) I/defl L/d Vert(LL) -0.01 8 >999 360	PLATES GRIP MT20 244/190
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	BC 0.13 WB 0.06 Matrix-S	Vert(CT) -0.02 8 >999 240 Horz(CT) 0.00 6 n/a n/a Wind(LL) 0.02 8 >999 240	Weight: 50 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-0, 6=0-3-0

Max Horz 2=-52(LC 13)

Max Uplift 2=-204(LC 8), 6=-204(LC 9) Max Grav 2=470(LC 1), 6=470(LC 1)

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

2-3=-559/645, 3-4=-523/687, 4-5=-523/687, 5-6=-559/645 TOP CHORD **BOT CHORD** 2-10=-507/464, 9-10=-507/464, 8-9=-507/464, 6-8=-507/464

WEBS 4-9=-399/250

- 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
- 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 100 lb uplift at joint(s) except (jt=lb) 2=204, 6=204.



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

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

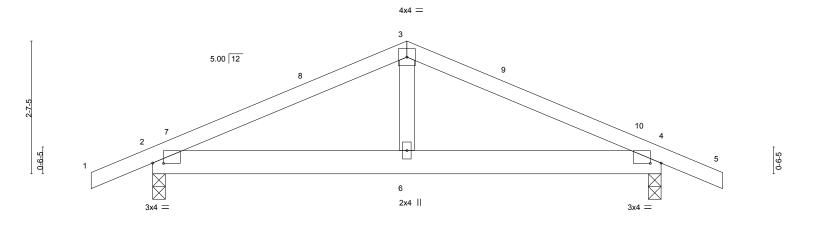
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job		Truss	Truss Type	Qty		Ply	Lot 71 Liberty Meadows		
								16	67108847
J0723-3720		P2	COMMON	5		1			
							Job Reference (optional)		
Comtech, Inc,	Fayette	ville, NC - 28314,			3	3.630 s Ju	Il 12 2024 MiTek Industries, Inc. Thu J	lul 25 10:16:45 2024 P	Page 1
				ID:jUICoITE	3hC0nl	IVImGyns	e8yuZYG-RfC?PsB70Hq3NSgPqnL8w	/3uITXbGKWrCDoi7J47	zJC?f
	-1-2-8	1	5-0-0				10-0-0	11-2-8	
	1-2-8		5-0-0				5-0-0	1-2-8	

Scale = 1:22.7



		-0-0 -0-0	10-0-0 5-0-0	
Plate Offsets (X,Y)	[2:0-2-9,0-0-1], [4:0-2-9,0-0-1]			
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 0.21 BC 0.11 WB 0.05 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.01 6 >999 360 Vert(CT) -0.02 4-6 >999 240 Horz(CT) 0.00 4 n/a n/a n/a Wind(LL) 0.02 4-6 >999 240	PLATES GRIP MT20 244/190 Weight: 46 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-0, 4=0-3-0 Max Horz 2=-31(LC 17)

Max Uplift 2=-147(LC 8), 4=-147(LC 9) 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=-567/636, 3-4=-567/636

BOT CHORD 2-6=-476/457, 4-6=-476/457

WFBS 3-6=-318/237

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
- 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 100 lb uplift at joint(s) except (jt=lb) 2=147, 4=147.



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 Ply Lot 71 Liberty Meadows 167108848 J0723-3720 VB1 VALLEY Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:46 2024 Page 1 ID:jUIColTBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 2-10-3 2-10-3 2-10-3 Scale = 1:20.2 4x4 = 2 12.00 12 3 2x4 // 2x4 📏 2x4 || LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 Vert(LL) 999 244/190 **TCLL** TC 0.10 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.05 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.01 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-P Weight: 22 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

OTHERS 2x4 SP No.2

> 1=5-8-6, 3=5-8-6, 4=5-8-6 (size) Max Horz 1=60(LC 11)

Max Uplift 1=-22(LC 13), 3=-22(LC 13)

Max Grav 1=122(LC 1), 3=122(LC 1), 4=156(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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
- 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 100 lb uplift at joint(s) 1, 3.
- 6) Non Standard bearing condition. Review required.



Structural wood sheathing directly applied or 5-8-6 oc purlins.

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



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty Ply Lot 71 Liberty Meadows 167108849 J0723-3720 VB2 VALLEY Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:46 2024 Page 1 ID:jUICoITBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 1-2-3 Scale = 1:8.7 3x4 = 12.00 12 3 2x4 📏 2x4 // Plate Offsets (X,Y)--[2:0-2-0,Edge] SPACING-**PLATES** GRIP LOADING (psf) CSI. **DEFL** in (loc) I/defl L/d 20.Ó 244/190 TCLL Plate Grip DOL 1.15 TC 0.01 Vert(LL) 999 MT20 n/a n/a TCDL 10.0 Lumber DOL 1.15 ВС 0.02 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Matrix-P Weight: 7 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

> 1=2-4-6, 3=2-4-6 (size)

Max Horz 1=20(LC 9) Max Uplift 1=-2(LC 13), 3=-2(LC 13) Max Grav 1=66(LC 1), 3=66(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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
- 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 100 lb uplift at joint(s) 1, 3.
- 6) Non Standard bearing condition. Review required.



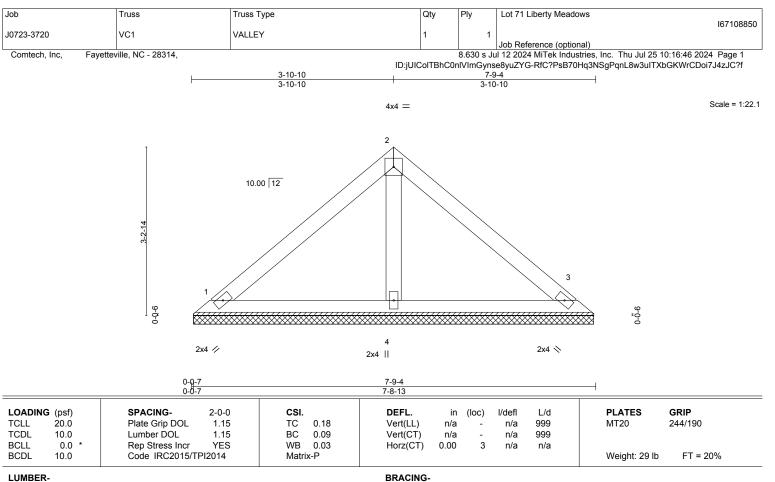
Structural wood sheathing directly applied or 2-4-6 oc purlins.

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

OTHERS 2x4 SP No.2

> 1=7-8-5, 3=7-8-5, 4=7-8-5 (size) Max Horz 1=-70(LC 8)

Max Uplift 1=-24(LC 13), 3=-31(LC 13)

Max Grav 1=161(LC 1), 3=161(LC 1), 4=235(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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
- 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 100 lb uplift at joint(s) 1, 3.
- 6) Non Standard bearing condition. Review required.



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 Ply Lot 71 Liberty Meadows 167108851 J0723-3720 VC2 VALLEY Job Reference (optional)
8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:47 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:jUIColTBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 2-8-3 2-8-3 2-8-4 Scale = 1:16.2 4x4 = 2 10.00 12 3 9-0-0 9-0-0 2x4 || 2x4 / 2x4 📏 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 Vert(LL) 999 244/190 **TCLL** TC 0.07 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.01 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-P Weight: 19 lb FT = 20% **BRACING-**LUMBER-TOP CHORD Structural wood sheathing directly applied or 5-4-7 oc purlins.

BOT CHORD

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

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

OTHERS 2x4 SP No.2

> 1=5-3-8, 3=5-3-8, 4=5-3-8 (size) Max Horz 1=-46(LC 10)

Max Uplift 1=-16(LC 13), 3=-20(LC 13)

Max Grav 1=106(LC 1), 3=106(LC 1), 4=154(LC 1)

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

NOTES-

REACTIONS.

- 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) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 100 lb uplift at joint(s) 1, 3.
- 6) Non Standard bearing condition. Review required.





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty Ply Lot 71 Liberty Meadows 167108852 J0723-3720 VC3 VALLEY Job Reference (optional)
8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:47 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:jUIColTBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 2-11-10 1-5-13 1-5-13 1-5-13 Scale = 1:9.0 3x4 = 2 10.00 12 3 0-0-6 9-0-0 2x4 // 2x4 N Plate Offsets (X,Y)--[2:0-2-0,Edge] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. **DEFL** in (loc) I/defl L/d 20.Ó 244/190 TCLL Plate Grip DOL 1.15 TC 0.02 Vert(LL) 999 MT20 n/a n/a TCDL 10.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) n/a n/a 999

LUMBER-

BCLL

BCDL

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

0.0

10.0

BRACING-

Horz(CT)

0.00

3

n/a

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 2-11-10 oc purlins.

Weight: 9 lb

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

n/a

REACTIONS. 1=2-10-12, 3=2-10-12 (size)

Max Horz 1=-22(LC 8)

Max Uplift 1=-4(LC 12), 3=-4(LC 13) Max Grav 1=87(LC 1), 3=87(LC 1)

Rep Stress Incr

Code IRC2015/TPI2014

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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

WB

Matrix-P

0.00

- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 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 100 lb uplift at joint(s) 1, 3.



FT = 20%

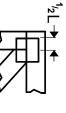
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

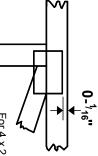


Symbols

PLATE LOCATION AND ORIENTATION



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



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 software or upon request

PLATE SIZE

4 × 4

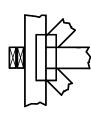
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



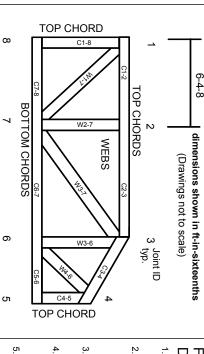
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

DSB-22:

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

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-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

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 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
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5 Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

œ

- 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
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use environmental, health or performance risks. Consult with
- 19. 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



Trenco

818 Soundside Rd Edenton, NC 27932

Re: J0723-3721

Lot 71 Liberty Meadows

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: I67108853 thru I67108867

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



July 29,2024

Sevier, Scott

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

Job	Truss	Truss Type	Qty	Ply	Lot 71 Liberty Meadows
10700 0704	ET1	CARLE			I67108853
J0723-3721	EII	GABLE	1	1	
					Job Reference (optional)

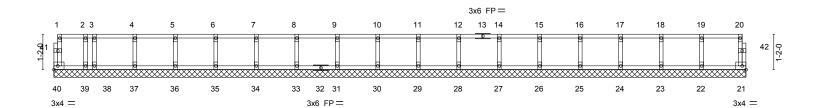
0-11-8

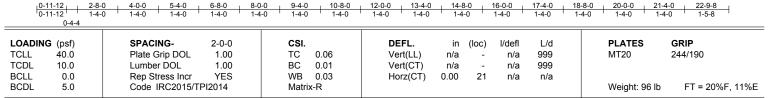
8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:32 2024 Page 1

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Scale = 1:37.9

0-11-8





LUMBER-BRACING-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WEBS **OTHERS** 2x4 SP No.3(flat)

1-4-0

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 22-9-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 39, 38, 37, 36, 35, 34, 33, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22

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

NOTES-

- 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	Lot 71 Liberty Meadows
10700 0704	ET2	CARLE			167108854
J0723-3721	EIZ	GABLE	1	1	Joh Deference (entional)
					Job Reference (optional)

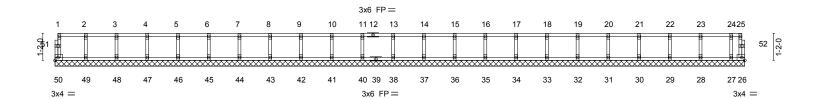
0-<u>1</u>1-8

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:33 2024 Page 1 ID:jUICoITBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-11-8

Scale = 1:50.0

29-11-0



+ 29-4-0 $+\frac{6.8-0}{1.4-0} + \frac{8-0.0}{1.4-0} + \frac{9.4-0}{1.4-0} + \frac{10.8-0}{1.4-0} + \frac{12.0-0}{1.4-0} + \frac{13.4-0}{1.4-0} + \frac{14.8-0}{1.4-0} + \frac{16.0-0}{1.4-0} + \frac{17.4-0}{1.4-0} + \frac{18-8-0}{1.4-0} + \frac{20.0-0}{1.4-0} + \frac{21.4-0}{1.4-0} + \frac{22.8-0}{1.4-0} + \frac{24.0-0}{1.4-0} + \frac{25.4-0}{1.4-0} + \frac{26.8-0}{1.4-0} + \frac{28.0-0}{1.4-0} + \frac{28.0-0}{1.4$ LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES GRIP** (loc) TCLL 40.0 Plate Grip DOL 1.00 0.06 Vert(LL) n/a 999 244/190 TC n/a MT20 TCDL 10.0 Lumber DOL 1.00 ВС 0.01 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 26 n/a n/a **BCDL** 5.0 Code IRC2015/TPI2014 Matrix-R Weight: 124 lb FT = 20%F, 11%E

LUMBER-BRACING-

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.3(flat) WEBS

OTHERS 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 29-11-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 50, 26, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27

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

NOTES-

- 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.

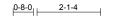




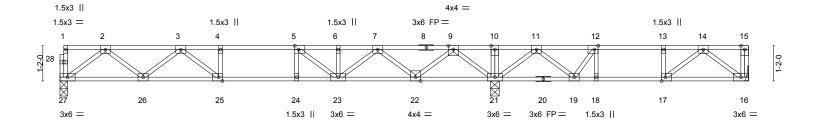
Job	Truss	Truss Type	Qty	Ply	Lot 71 Liberty Meadows	٦
					I67108855	اذ
J0723-3721	F01	Floor	10	1		
					Job Reference (optional)	

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:33 2024 Page 1 ID:jUICoITBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:38.1



	14-4	I-12				22-9-8	
	14-4-12					8-4-12	1
Plate Offsets (X,Y)	[5:0-1-8,Edge], [12:0-1-8,Edge], [17:0-1	-8,Edge], [25:0-1-8,Edge]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (Id	c) I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.57	Vert(LL) -0.12 25-2	26 >999	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.60	Vert(CT) -0.15 25-2	26 >999	360		
BCLL 0.0	Rep Stress Incr NO	WB 0.44	Horz(CT) 0.03	16 n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S				Weight: 114 lb	FT = 20%F, 11%E
	1						

TOP CHORD

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 6-0-0 oc bracing.

REACTIONS. (size) 27=0-3-0, 21=0-3-8, 16=Mechanical Max Grav 27=710(LC 10), 21=1473(LC 1), 16=1641(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 15-16=-1306/0, 2-3=-1402/0, 3-4=-2185/0, 4-5=-2185/0, 5-6=-1882/0, 6-7=-1882/0,

7-9=-807/0, 9-10=0/1225, 10-11=0/1225, 11-12=-430/429, 12-13=-634/202,

13-14=-634/202

BOT CHORD $26-27=0/879,\ 25-26=0/1895,\ 24-25=0/2185,\ 23-24=0/2185,\ 22-23=0/1470,\ 19-21=-696/91,$

18-19=-202/634, 17-18=-202/634, 16-17=-36/422

WEBS 2-27=-1100/0, 2-26=0/681, 3-26=-641/0, 3-25=0/496, 9-21=-1328/0, 9-22=0/933,

11-21=-834/0, 11-19=0/624, 14-16=-529/46, 14-17=-212/272, 7-22=-898/0, 7-23=0/556,

5-23=-641/0, 12-19=-614/0

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 16-27=-10, 1-15=-100

Concentrated Loads (lb) Vert: 15=-1250

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

except end verticals.

July 29,2024



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Lot 71 Liberty Meadows
					I67108856
J0723-3721	F02	Floor	3	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:34 2024 Page 1 ID:jUICoITBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

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

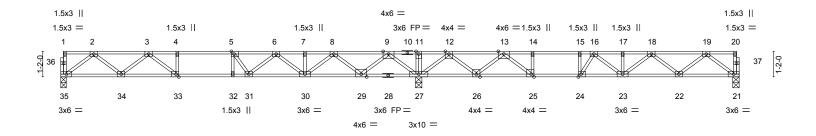
except end verticals.

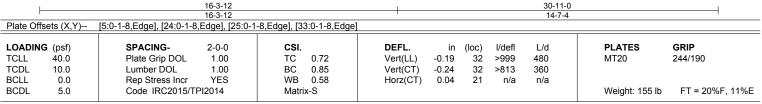
0-1-8

HI 1-3-0 2-4-12 0-8-0

2-0-4 0-7-0

0-1-8 Scale = 1:52.5





TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat) *Except* 10-20: 2x4 SP 2400F 2.0E(flat)

BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) **WEBS**

REACTIONS.

(size) 35=0-3-0, 27=0-3-8, 21=0-3-8

Max Grav 35=755(LC 3), 27=2028(LC 1), 21=705(LC 4)

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

2-3=-1508/0, 3-4=-2462/0, 4-5=-2462/0, 5-6=-2380/0, 6-7=-1648/0, 7-8=-1648/0, TOP CHORD 8-9=-166/480, 9-11=0/2461, 11-12=0/2461, 12-13=-615/1214, 13-14=-1994/414,

14-15=-1994/414, 15-16=-1994/414, 16-17=-2134/10, 17-18=-2134/10, 18-19=-1390/0

34-35=0/937, 33-34=0/2066, 32-33=0/2462, 31-32=0/2462, 30-31=0/2142, **BOT CHORD**

29-30=-206/1026, 27-29=-1239/0, 26-27=-1543/0, 25-26=-868/1332, 24-25=-414/1994, 23-24=-171/2180, 22-23=0/1888, 21-22=0/869

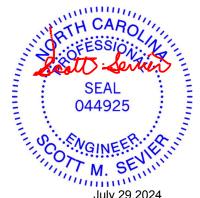
WEBS 2-35=-1173/0, 2-34=0/743, 3-34=-727/0, 3-33=0/570, 4-33=-258/0, 9-27=-1618/0,

9-29=0/1197, 12-27=-1495/0, 12-26=0/1033, 13-26=-1098/0, 13-25=0/1212, 14-25=-554/0, 15-24=0/495, 8-29=-1171/0, 8-30=0/848, 6-30=-672/0, 6-31=0/500, 5-31=-500/0, 19-21=-1087/0, 19-22=0/678, 18-22=-648/19, 18-23=-98/314,

16-24=-795/0

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.
- 5) CAUTION, Do not erect truss backwards.



July 29,2024



Job Truss Truss Type Qty Lot 71 Liberty Meadows Ply 167108857 Floor J0723-3721 F02-A 2 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

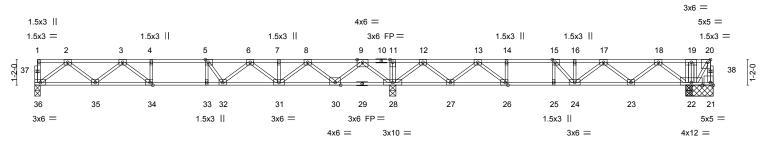
8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:34 2024 Page 1

0-1-8

HI 1-3-0

2-4-12 Q-8-Q 2-0-4 0-10-0

0-640-1-8 Scale = 1:52.5



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN
WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.



Plate Off	Plate Offsets (X,Y) [5:0-1-8,Edge], [15:0-1-8,Edge], [20:0-1-8,Edge], [21:Edge,0-1-8], [26:0-1-8,Edge], [34:0-1-8,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	0.88	Vert(LL)	-0.19	33	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.25	33	>783	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.03	28	n/a	n/a		
BCDL	5.0	Code IRC2015/TP	12014	Matri	x-S						Weight: 159 lb	FT = 20%F, 11%E

BOT CHORD

LUMBER-**BRACING-**

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

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

2x4 SP No.3(flat) **WEBS** REACTIONS. All bearings 1-3-0 except (jt=length) 36=0-3-0, 28=0-3-8.

Max Uplift All uplift 100 lb or less at joint(s) except 21=-1433(LC 4) (lb) -

Max Grav All reactions 250 lb or less at joint(s) except 36=761(LC 3), 22=5220(LC 4), 22=5116(LC 1), 22=5116(LC

1), 28=1869(LC 1)

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

TOP CHORD 20-21=0/1418, 2-3=-1522/0, 3-4=-2500/0, 4-5=-2500/0, 5-6=-2428/0, 6-7=-1712/0,

7-8=-1712/0, 8-9=-246/420, 9-11=0/2343, 11-12=0/2343, 12-13=-322/1213,

13-14=-1161/552, 14-15=-1161/552, 15-16=-1064/303, 16-17=-1064/303, 18-19=0/1308,

19-20=0/1258

BOT CHORD 35-36=0/945, 34-35=0/2089, 33-34=0/2500, 32-33=0/2500, 31-32=0/2200,

30-31=-152/1098, 28-30=-1121/0, 27-28=-1501/0, 26-27=-912/839, 25-26=-552/1161,

24-25=-552/1161, 23-24=-257/774, 22-23=-538/0

2-36=-1183/0, 2-35=0/752, 3-35=-738/0, 3-34=0/595, 4-34=-267/0, 9-28=-1611/0, **WEBS**

9-30=0/1188, 20-22=-1883/0, 19-22=-3019/0, 12-28=-1250/0, 12-27=0/825,

13-27=-849/0, 13-26=0/781, 14-26=-333/0, 18-22=-1186/0, 8-30=-1157/0, 8-31=0/834, 6-31=-662/0, 6-32=0/489, 5-32=-483/0, 18-23=0/738, 17-23=-709/10, 17-24=-59/370,

15-24=-144/369

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1433 lb uplift at joint 21.
 5) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 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.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

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

Vert: 21-36=-10, 1-19=-100, 19-20=-220





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lot 71 Liberty Meadows 167108857 Floor F02-A 2 J0723-3721 Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:35 2024 Page 2

Comtech, Inc, Fayetteville, NC - 28314,

ID:jUICoITBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 19=-2832



Job	Truss	Truss Type	Qty	Ply	Lot 71 Liberty Meadows	٦
					I67108858	3
J0723-3721	F03	Floor	3	1		
					Job Reference (optional)	

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:35 2024 Page 1 ID:jUICoITBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8

HI-3-0

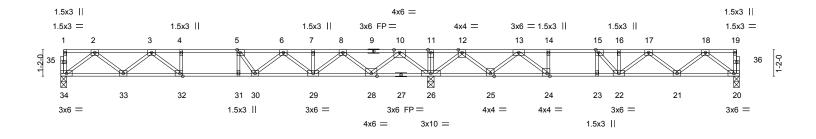
2-4-12 _0-8-0

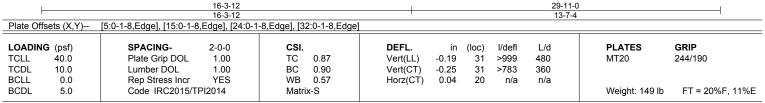
Structural wood sheathing directly applied or 2-2-0 oc purlins,

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

except end verticals.

0-1-8 Scale = 1:50.8





TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

2x4 SP No.3(flat)

REACTIONS. (size) 34=0-3-0, 20=0-3-0, 26=0-3-8

Max Grav 34=761(LC 3), 20=650(LC 4), 26=1967(LC 1)

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

TOP CHORD 2-3=-1522/0, 3-4=-2500/0, 4-5=-2500/0, 5-6=-2429/0, 6-7=-1712/0, 7-8=-1712/0,

8-10=-246/417, 10-11=0/2340, 11-12=0/2340, 12-13=-559/1148, 13-14=-1743/392,

14-15=-1743/392, 15-16=-1862/83, 16-17=-1862/83, 17-18=-1252/0 33-34=0/945, 32-33=0/2090, 31-32=0/2500, 30-31=0/2500, 29-30=0/2201,

BOT CHORD 28-29=-149/1099, 26-28=-1116/0, 25-26=-1464/0, 24-25=-810/1211, 23-24=-392/1743,

22-23=-392/1743, 21-22=-7/1679, 20-21=0/798

WEBS 2-34=-1183/0, 2-33=0/752, 3-33=-739/0, 3-32=0/596, 4-32=-268/0, 10-26=-1610/0,

10-28=0/1187, 18-20=-998/0, 18-21=-17/591, 17-21=-555/54, 16-22=-291/0, 12-26=-1407/0, 12-25=0/961, 13-25=-1024/0, 8-28=-1157/0, 8-29=0/834, 6-29=-662/0, 6-30=0/488, 5-30=-483/0, 13-24=0/1051, 14-24=-437/0, 15-22=0/666, 15-23=-309/0

NOTES-

WEBS

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.



July 29,2024



Job	Truss	Truss Type	Qty	Ply	Lot 71 Liberty Meadows	٦
			_		I67108859	,
J0723-3721	F04	Floor	2	1		
					Job Reference (optional)	

1-7-12

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:35 2024 Page 1 ID:jUICoITBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

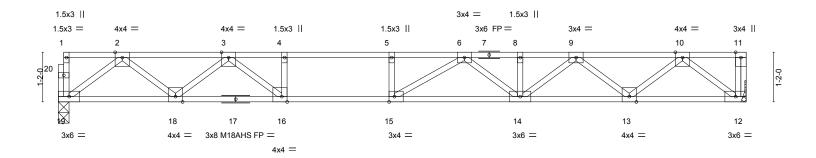
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



Scale = 1:27.1



			16-2-0	
Plate Offsets (X,Y)-	[15:0-1-8,Edge], [16:0-1-8,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 0.68	Vert(LL) -0.29 14-15 >665 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.64	Vert(CT) -0.39 14-15 >490 360	M18AHS 186/179
BCLL 0.0	Rep Stress Incr YES	WB 0.49	Horz(CT) 0.04 12 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 81 lb FT = 20%F, 11%E

BOT CHORD

16-2-0

LUMBER-**BRACING-**

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

1-7: 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP No.1(flat) *Except*

12-17: 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 19=0-3-0, 12=Mechanical

Max Grav 19=869(LC 1), 12=875(LC 1)

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

TOP CHORD 2-3=-1777/0, 3-4=-3174/0, 4-5=-3174/0, 5-6=-3174/0, 6-8=-2950/0, 8-9=-2950/0,

9-10=-1800/0

BOT CHORD 18-19=0/1086, 16-18=0/2493, 15-16=0/3174, 14-15=0/3237, 13-14=0/2501, 12-13=0/1084 WEBS 2-19=-1360/0, 2-18=0/900, 3-18=-933/0, 3-16=0/1037, 4-16=-464/0, 10-12=-1360/0,

10-13=0/933, 9-13=-912/0, 9-14=0/573, 6-14=-367/0, 6-15=-300/384

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





Job Truss Truss Type Qty Ply Lot 71 Liberty Meadows 167108860 2 J0723-3721 F05 Floor Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

1-3-0

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:36 2024 Page 1

ID:jUICoITBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 0118

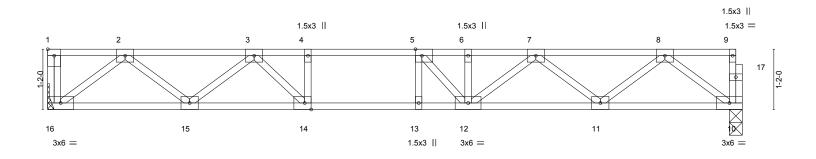
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0-11-12 2-0-4 0-10-0

Scale = 1:22.3



			13-5-8	
Plate Offsets (X,Y)				
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) -0.12 12-13 >999 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.68	Vert(CT) -0.16 12-13 >961 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.03 10 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 69 lb FT = 20%F, 11%E

TOP CHORD

BOT CHORD

13-5-8

LUMBER-**BRACING-**

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 16=Mechanical, 10=0-3-0 Max Grav 16=726(LC 1), 10=720(LC 1)

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

TOP CHORD 2-3=-1422/0, 3-4=-2238/0, 4-5=-2238/0, 5-6=-2198/0, 6-7=-2198/0, 7-8=-1431/0

BOT CHORD 15-16=0/891, 14-15=0/1942, 13-14=0/2238, 12-13=0/2238, 11-12=0/1940, 10-11=0/891 **WEBS**

8-10=-1115/0, 8-11=0/703, 7-11=-662/0, 7-12=0/330, 5-12=-377/177, 4-14=-307/0,

2-16=-1118/0, 2-15=0/690, 3-15=-677/0, 3-14=0/601

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



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lot 71 Liberty Meadows 167108861 Floor J0723-3721 F06 Job Reference (optional)
8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:36 2024 Page 1 Comtech, Inc.

Fayetteville, NC - 28314,

1-3-0

ID:jUICoITBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?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.

0-4-8 0-1-8

Scale = 1:11.5

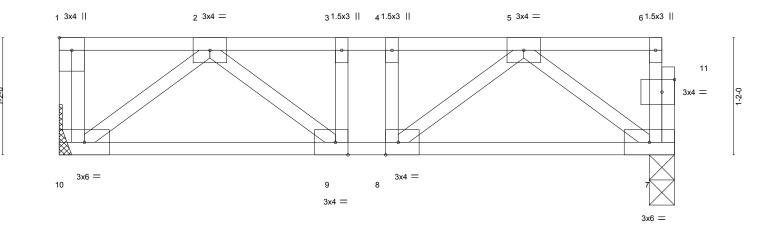


Plate Off	sets (X,Y)	[1:Eage,0-1-8], [8:0-1-8,Eage], [9	:0-1-8,Eagej, [11:0-1-8,0-1-8]							
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.08	Vert(LL) -	0.01	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.10	Vert(CT) -	0.01	7-8	>999	360		
BCLL	0.0	Rep Stress Incr YES	WB 0.10	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S						Weight: 35 lb	FT = 20%F, 11%E

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) 10=Mechanical, 7=0-3-0 Max Grav 10=323(LC 1), 7=317(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-463/0, 3-4=-463/0, 4-5=-463/0 BOT CHORD 9-10=0/339, 8-9=0/463, 7-8=0/337 2-10=-425/0, 5-7=-419/0 **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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Lot 71 Liberty Meadows
					I67108862
J0723-3721	F07	Floor	1	1	
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:36 2024 Page 1 ID:jUICoITBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?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.



- I-0-4

Scale = 1:19.2

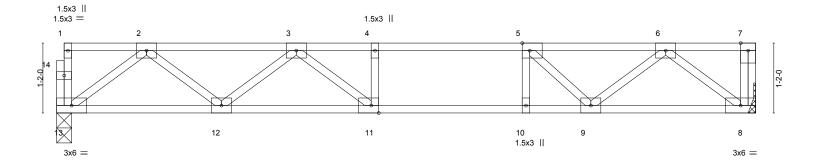


Plate Off	sets (X,Y)	[5:0-1-8,Edge], [11:0-1-8,Edge]		11-8-0	
	0010 (71, 17	[5:5 : 5,2495], [:::5 : 5,2495]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.53	Vert(LL) -0.13 11-12 >999 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.69	Vert(CT) -0.17 11-12 >802 360	
BCLL	0.0	Rep Stress Incr YES	WB 0.29	Horz(CT) 0.02 8 n/a n/a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 58 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

11-8-0

LUMBER-

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 13=0-3-0, 8=Mechanical Max Grav 13=622(LC 1), 8=628(LC 1)

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

TOP CHORD 2-3=-1195/0, 3-4=-1648/0, 4-5=-1648/0, 5-6=-1206/0 BOT CHORD

 $12\text{-}13\text{=}0/765,\ 11\text{-}12\text{=}0/1564,\ 10\text{-}11\text{=}0/1648,\ 9\text{-}10\text{=}0/1648,\ 8\text{-}9\text{=}0/735$

2-13=-958/0, 2-12=0/560, 3-12=-479/0, 3-11=-42/350, 6-8=-922/0, 6-9=0/612, **WEBS**

5-9=-647/0

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





Job Truss Truss Type Qty Lot 71 Liberty Meadows 167108863 J0723-3721 FG-1 FLOOR GIRDER Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:37 2024 Page 1 ID:jUICoITBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 1-5-12 1-6-12 Scale = 1:8.6 7 -2-0 3x4 = 1.5x3 II 4 3x6 =3x6 = 1-11-6 1-9-8 1-10-4 2-0-8 0-3-0 0-0-12 0-1-2 0-1-2 Plate Offsets (X,Y)--[7:0-1-8,0-0-8] SPACING-DEFL. **GRIP** LOADING (psf) CSI. in (loc) I/defl L/d **PLATES** TCLL 40.0 Plate Grip DOL 1.00 TC 0.10 Vert(LL) -0.01 5 >999 480 244/190 MT20

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.01

0.00

5 >999

n/a

except end verticals.

360

n/a

Structural wood sheathing directly applied or 3-8-0 oc purlins,

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

LUMBER-

TCDL

BCLL

BCDL

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

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

WEBS 2x4 SP No.3(flat)

10.0

0.0

5.0

REACTIONS. (size) 6=0-3-8, 4=Mechanical Max Grav 6=494(LC 1), 4=502(LC 1)

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

BOT CHORD 5-6=0/580, 4-5=0/580

2-4=-665/0, 2-6=-662/0 **WEBS**

NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 223 lb down at 1-9-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

1.00

NO

ВС

WB

Matrix-P

0.14

0.16

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 4-6=-10, 1-3=-220

Concentrated Loads (lb)

Vert: 2=-223(F)



FT = 20%F, 11%E

Weight: 27 lb

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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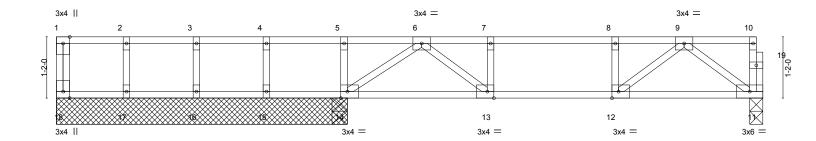
Job Truss Truss Type Qty Lot 71 Liberty Meadows 167108864 J0723-3721 FG-2 **GABLE** Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

8.630 s Sep 20 2023 MiTek Industries, Inc. Mon Jul 29 08:28:13 2024 Page 1 ID:jUICoITBhC0nlVImGynse8yuZYG-RSj0l?fYau6jdLJewHrHrfWRUcBcp8Die0UH0yytG4G

5-2-0 1-5-0 1-3-0 0₁1₇8

Scale = 1:21.9





	, , ,			
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 0.43	Vert(LL) -0.04 13 >999 480 MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.40	Vert(CT) -0.06 13 >999 360
BCLL	0.0	Rep Stress Incr NO	WB 0.28	Horz(CT) 0.01 11 n/a n/a
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S	Weight: 63 lb FT = 20%F, 11%

BRACING-

LUMBER-

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

2x4 SP No.1(flat)

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

REACTIONS. All bearings 5-6-8 except (jt=length) 11=0-3-0.

Max Uplift All uplift 100 lb or less at joint(s) 15 (lb) -

Max Grav All reactions 250 lb or less at joint(s) 18, 17, 16, 15 except 11=492(LC 4), 14=903(LC 1), 14=903(LC

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

TOP CHORD 6-7=-1020/0, 7-8=-1020/0, 8-9=-1020/0 **BOT CHORD** 13-14=0/901, 12-13=0/1020, 11-12=0/565

WEBS 9-11=-704/0, 9-12=0/580, 6-14=-1102/0, 8-12=-291/0

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 8) CAUTION, Do not erect truss backwards.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 482 lb down at 7-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 11-18=-10, 1-10=-100

Concentrated Loads (lb)

Vert: 6=-402(F)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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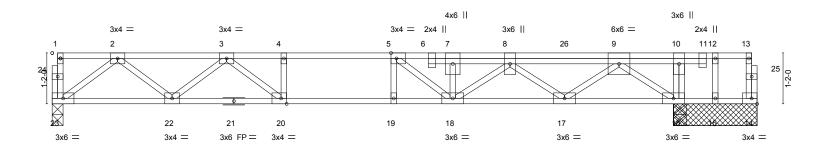
Job Truss Truss Type Qty Lot 71 Liberty Meadows 167108865 J0723-3721 FG-3 GABLE Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

8.630 s Sep 20 2023 MiTek Industries, Inc. Mon Jul 29 08:38:47 2024 Page 1 ID:jUICoITBhC0nlVImGynse8yuZYG-tQ1ipoKEHh_lhmnV3RDyYMnh0BYSMq_0Qf3qGCytFwM

H 1-3-0 2-4-12

0₇1₇8 Scale = 1:26.4



<u> </u>	9-3-0 9-3-0						11-9-0			-	14-3-0 2-6-0	14-4-8 0-1-8		16-2-0 0-5-8
Plate Offs	sets (X,Y)	[1:0-1-8,0-2-4], [1:0-1-8,0-2-		Edge], [20:0-	1-8,Edge]				-					
LOADING	(psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLA	ΓES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.17	19	>999	480	MT2)	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.24	19	>725	360				
BCLL	0.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.04	14	n/a	n/a				
BCDL	5.0	Code IRC2015/TPI2	014	Matrix	:-S						Weig	ht: 90 lb	FT = 2	0%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, except **BOT CHORD**

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

14-21: 2x4 SP 2400F 2.0E(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. All bearings 1-11-0 except (jt=length) 23=0-3-0.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 15=-378(LC 1)

Max Grav All reactions 250 lb or less at joint(s) 14 except 23=815(LC 1), 16=1563(LC 1), 16=1563(LC 1),

15=377(LC 1)

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

TOP CHORD 2-3=-1649/0, 3-4=-2821/0, 4-5=-2821/0, 5-6=-2918/0, 6-7=-2919/0, 7-8=-2918/0,

8-26=-1936/0, 9-26=-1936/0

BOT CHORD 22-23=0/1014, 21-22=0/2292, 20-21=0/2292, 19-20=0/2821, 18-19=0/2821, 17-18=0/2753,

16-17=0/1141

10-16=-615/0, 2-23=-1270/0, 2-22=0/827, 3-22=-837/0, 3-20=0/675, 4-20=-311/0,

9-16=-1397/0, 12-15=0/279, 9-17=0/1010, 8-17=-1037/0

NOTES-

WEBS

- 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 studs spaced at 1-4-0 oc.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 378 lb uplift at joint 15
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- CAUTION, Do not erect truss backwards.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 336 lb down at 11-9-12 on top 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 14-23=-10, 1-13=-100

Concentrated Loads (lb) Vert: 26=-336(F)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty Ply Lot 71 Liberty Meadows 167108866 J0723-3721 FG-4 FLOOR GIRDER Job Reference (optional)
8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Jul 25 10:16:38 2024 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:jUICoITBhC0nlVImGynse8yuZYG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 6x6 = 3x6 | I 1-4-8 3 Scale = 1:8.6 3x6 =1.5x3 || 6 3x6 = 1-6-0 1-8-4

1-5-4 1-7-8 1-9-0 0-2-4 0-1-8 0-0-12 0-0-12 0-0-12

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	0.05	Vert(LL)	-0.00	5	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.13	Vert(CT)	-0.01	5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI	12014	Matri	x-P						Weight: 26 lb	FT = 20%F, 11%E

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

2x4 SP No.3(flat) WEBS

REACTIONS. 6=Mechanical, 4=Mechanical (size)

Max Grav 6=436(LC 1), 4=436(LC 1)

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

BOT CHORD 5-6=0/553, 4-5=0/553 **WEBS** 2-4=-653/0, 2-6=-653/0

NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 528 lb down at 1-6-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 5) 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: 4-6=-10, 1-3=-100 Concentrated Loads (lb) Vert: 2=-528(B)



Structural wood sheathing directly applied or 3-4-8 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. 1/2/2023 BEFORE USE.

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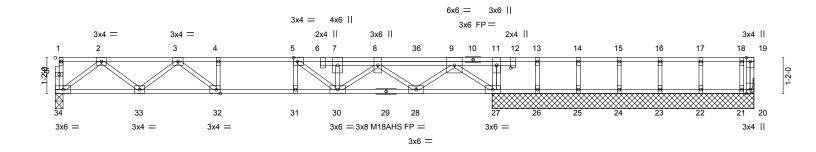
Job	Truss	Truss Type	Qty	Ply	Lot 71 Liberty Meadows	\neg
	50.5			l .	I6710886	j7
J0723-3721	FG-5	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Favetteville, NC 28309

8.630 s Sep 20 2023 MiTek Industries, Inc. Mon Jul 29 08:44:37 2024 Page 1 ID:jUICoITBhC0nlVImGynse8yuZYG-dmB0HTZnsE45gZXmZxU1kAGVFG_TM7bXv6rLXvytFqu

H 1-3-0 2-4-12

Scale = 1:37.6



<u> </u>		9-3-4			11-9-4		3-0 14- ₄₋ 12	-8-12	17-0-12 18-4-		
Plate Offs	ets (X,Y)	9-3-4 [1:0-1-7,0-2-4], [5:0-1-8,E	dge], [11:0-1-	0,0-5-8], [32:	2-6-0 0-1-8,Edge]	2-5	-12 0-1-12 1	-4-0	1-4-0 ' 1-4-	0 1-4-0 1-4-0	1-4-0 0-4-12
LOADING TCLL TCDL BCLL	(psf) 40.0 10.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.00 NO	CSI. TC BC WB	0.81 0.61 0.48	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.18 31 -0.24 30-31 0.04 20	l/defl >974 >703 n/a	L/d 480 360 n/a	PLATES MT20 M18AHS	GRIP 244/190 186/179
BCDL	5.0	Code IRC2015/TF		Matri		11012(01)	0.04 20	11/4	11/4	Weight: 117 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, except **BOT CHORD**

2x4 SP 2400F 2.0E(flat) *Except*

20-29: 2x4 SP No.1(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS** 2x4 SP No.3(flat)

OTHERS 2x4 SP No.3(flat)

REACTIONS. All bearings 8-6-8 except (jt=length) 34=0-3-0.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) 20, 20 except 26=-123(LC 1)

Max Grav All reactions 250 lb or less at joint(s) 20, 20, 26, 25, 24, 23, 22, 21 except 34=821(LC 1), 27=1376(LC

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

TOP CHORD 2-3=-1662/0, 3-4=-2859/0, 4-5=-2859/0, 5-6=-2972/0, 6-7=-2973/0, 7-8=-2972/0,

8-36=-2002/0, 9-36=-2002/0

BOT CHORD 33-34=0/1021, 32-33=0/2316, 31-32=0/2859, 30-31=0/2859, 29-30=0/2809, 28-29=0/2809,

27-28=0/1204

11-27=-433/0, 2-34=-1279/0, 2-33=0/834, 3-33=-851/0, 3-32=0/694, 4-32=-317/0,

9-27=-1479/0, 9-28=0/1014, 8-28=-1025/0

NOTES-

WEBS

- 1) All plates are MT20 plates unless otherwise indicated.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20 except (jt=lb)
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 8) CAUTION, Do not erect truss backwards.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 336 lb down at 11-9-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 20-34=-10, 1-19=-100



July 29,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Lot 71 Liberty Meadows
J0723-3721	FC F	GABLE	4		I67108867
30723-3721	FG-5	GABLE	•	'	Job Reference (optional)

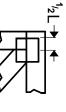
Comtech, Inc., Fayetteville, NC 28309

8.630 s Sep 20 2023 MiTek Industries, Inc. Mon Jul 29 08:44:37 2024 Page 2 ID:jUICoITBhC0nIVImGynse8yuZYG-dmB0HTZnsE45gZXmZxU1kAGVFG_TM7bXv6rLXvytFqu

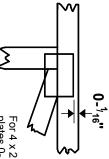
LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 36=-336(B)

Symbols

PLATE LOCATION AND ORIENTATION



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



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 software or upon request

PLATE SIZE

4 × 4

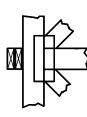
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



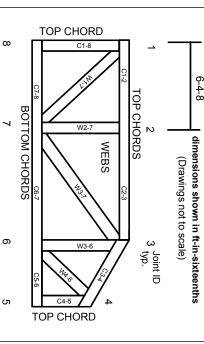
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

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

DSB-22:

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-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

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 wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- ယ Never exceed the design loading shown and never stack materials on inadequately braced trusses
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

5

- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

œ

- 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
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use environmental, health or performance risks. Consult with
- 19. 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



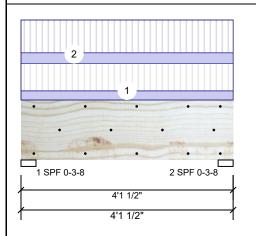
Date: 7/29/2024 Input by: Neal Baggett

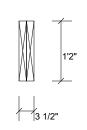
Job Name: 71 LIBERTY MEADOWS

Project #:

Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED BM₂

Level: Level





D+I

Page 1 of 11

Member Information Reactions UNPATTERNED Ib (Uplift) Application: Brg Direction Live Dead Snow Wind Const Type: Floor Plies: 2 Design Method: ASD 1235 435 0 Vertical n 0 1 Moisture Condition: Dry **Building Code: IBC/IRC 2015** 2 Vertical 1235 435 0 0 0 Deflection LL: 480 Load Sharing: No Deflection TL: 360 Deck: Not Checked Importance: Normal - II Temperature: Temp <= 100°F **Bearings** Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1-SPF 3.500" 1670 L D+L Vert 32% 435 / 1235

2 - SPF 3.500"

Vert

32%

Analysis Results

Analysis Actual Location Allowed Capacity Comb. Case Moment 1361 ft-lb 2' 3/4" 26999 ft-lb 0.050 (5%) D+L L Unbraced 1361 ft-lb 2' 3/4" 23153 ft-lb 0.059 (6%) D+L L Shear 1434 lb 2'8" 10453 lb 0.137 (14%) D+L L LL Defl inch 0.004 (L/11315) 0.092 (L/480) 0.042 (4%) L L TL Defl inch 0.005 (L/8369) 2' 13/16" 0.122 (L/360) 0.043 (4%) D+L L							
Unbraced 1361 ft-lb 2' 3/4" 23153 ft-lb 0.059 (6%) D+L L Shear 1434 lb 2'8" 10453 lb 0.137 (14%) D+L L LL Defl inch (L/11315) 0.004 (L/11315) 0.092 (L/480) 0.042 (4%) L L	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Shear 1434 lb 2'8" 10453 lb 0.137 (14%) D+L L LL Defl inch (L/11315) 0.004 (L/480) 0.042 (4%) L L	Moment	1361 ft-lb	2' 3/4"	26999 ft-lb	0.050 (5%)	D+L	L
LL Defl inch 0.004 2' 13/16" 0.092 (L/480) 0.042 (4%) L L (L/11315)	Unbraced	1361 ft-lb	2' 3/4"	23153 ft-lb	0.059 (6%)	D+L	L
(L/11315)	Shear	1434 lb	2'8"	10453 lb	0.137 (14%)	D+L	L
TL Defl inch 0.005 (L/8369) 2' 13/16" 0.122 (L/360) 0.043 (4%) D+L L	LL Defl inch		2' 13/16"	0.092 (L/480)	0.042 (4%)	L	L
	TL Defl inch	0.005 (L/8369)	2' 13/16"	0.122 (L/360)	0.043 (4%)	D+L	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 must be laterally braced at end bearings. 6 Bottom must be laterally braced at end bearings.
- 7 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			Near Face	91 PLF	271 PLF	0 PLF	0 PLF	0 PLF	F05
2	Uniform			Far Face	109 PLF	328 PLF	0 PLF	0 PLF	0 PLF	F04
	Self Weight				11 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 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 6/28/2026

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

435 / 1235

1670 L

ersion 23.40.705	Powered by iStruc	t™ Dataset: 2	24041701.1529



Date: 7/29/2024

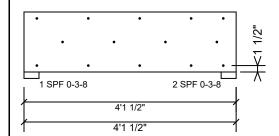
Input by: Neal Baggett Job Name: 71 LIBERTY MEADOWS

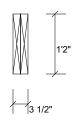
Project #:

Kerto-S LVL BM2

1.750" X 14.000" 2-Ply - PASSED

Level: Level





Page 2 of 11

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".

l asteri ali piles usirig 3 rov	ws of 100 box fialls (.120x3) at
Capacity	89.0 %
Load	218.5 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
CM	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+L
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 6/28/2026

www.metsawood.com/us

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

Manufacturer Info

(800) 622-5850



Date: 7/29/2024 Input by: Neal Baggett

Job Name: 71 LIBERTY MEADOWS

Page 3 of 11

Wind

1988 / 1661

1988 / 1661

3649 L

3649 L

0

0

Const

Ld. Comb.

D+0.75(L+S)

D+0.75(L+S)

0

0

Project #:

1 - SPF 3.500"

2 - SPF 3.500"

End Grain

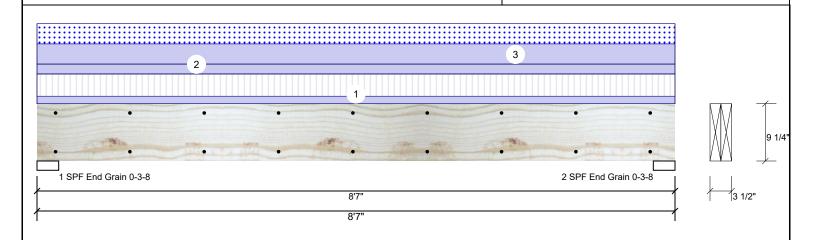
End Grain Vert

Vert

35%

Kerto-S LVL 1.750" X 9.250" BM1

Level: Level



2-Ply - PASSED

Reactions UNPATTERNED Ib (Uplift) Application: Direction Type: Brg Live Dead Snow Plies: 2 Design Method: ASD 1163 1988 1051 Vertical Moisture Condition: Dry **Building Code: IBC/IRC 2015** 2 Vertical 1163 1988 1051 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Deck: Not Checked Importance: Normal - II Temp <= 100°F Temperature: **Bearings** Bearing Length Dir. Cap. React D/L lb Total Ld. Case

Analysis Results

Member Information

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7016 ft-lb	4'3 1/2"	14423 ft-lb	0.486 (49%)	D+0.75(L+S)	L
Unbraced	7016 ft-lb	4'3 1/2"	8689 ft-lb	0.807 (81%)	D+0.75(L+S)	L
Shear	2751 lb	1' 3/4"	7943 lb	0.346 (35%)	D+0.75(L+S)	L
LL Defl inch	0.094 (L/1042)	4'3 9/16"	0.271 (L/360)	0.345 (35%)	0.75(L+S)	L
TL Defl inch	0.206 (L/474)	4'3 9/16"	0.406 (L/240)	0.506 (51%)	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.										
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	91 PLF	271 PLF	0 PLF	0 PLF	0 PLF	F01
2	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
3	Uniform			Тор	245 PLF	0 PLF	245 PLF	0 PLF	0 PLF	A5
	Self Weight				7 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
- 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 6/28/2026

Manufacturer Info

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

Client: Date: 7/29/2024 Page 4 of 11 Project: Input by: Neal Baggett isDesign Address: Job Name: 71 LIBERTY MEADOWS Project #: 1.750" X 9.250" 2-Ply - PASSED Level: Level **Kerto-S LVL** BM1 1 SPF End Grain 0-3-8 2 SPF End Grain 0-3-8 8'7' 8'7 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 PLF 163.7 PLF Yield Limit per Foot Yield Limit per Fastener 81.9 lb. См Yield Mode IV Edge Distance 1 1/2" Min. End Distance 3" Load Combination **Duration Factor** 1.00 For flat roofs provide proper drainage to prevent ponding Manufacturer Info 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. Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 Handling & Installation

This design is valid until 6/28/2026

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

L. UV. 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



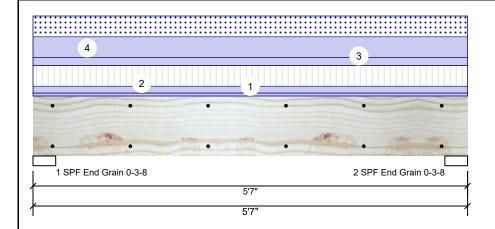
Date: 7/29/2024 Input by: Neal Baggett

Job Name: 71 LIBERTY MEADOWS

Project #:

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

Level: Level



Application: Design Method:

Building Code:

Load Sharing:

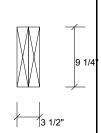
Deck:

ASD

No

IBC/IRC 2015

Not Checked



Page 5 of 11

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

Member Information

Importance: Normal - II Temperature: Temp <= 100°F

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	868	1645	877	0	0
2	Vertical	868	1645	877	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3473 ft-lb	2'9 1/2"	14423 ft-lb	0.241 (24%)	D+0.75(L+S)	L
Unbraced	3473 ft-lb	2'9 1/2"	11505 ft-lb	0.302 (30%)	D+0.75(L+S)	L
Shear	1835 lb	4'6 1/4"	7943 lb	0.231 (23%)	D+0.75(L+S)	L
LL Defl inch	0.021 (L/2896)	2'9 1/2"	0.128 (L/480)	0.166 (17%)	0.75(L+S)	L
TL Defl inch	0.048 (L/1283)	2'9 1/2"	0.171 (L/360)	0.281 (28%)	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.

L	Bearings	S						
Γ	Bearing	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
ı	1 - SPF End Grain	3.500"	Vert	29%	1645 / 1309	2953	L	D+0.75(L+S)
ı	2 - SPF End	3.500"	Vert	29%	1645 / 1309	2953	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	45 PLF	0 PLF	0 PLF	0 PLF	0 PLF	wall
2	Uniform			Тор	103 PLF	311 PLF	0 PLF	0 PLF	0 PLF	floor trusses
3	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	wall
4	Uniform			Тор	314 PLF	0 PLF	314 PLF	0 PLF	0 PLF	roof trusses
	Self Weight				7 PLF					

Grain

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 6/28/2026

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

isDesign

Client: Project: Address: Date: 7/29/2024

Input by: Neal Baggett Job Name: 71 LIBERTY MEADOWS

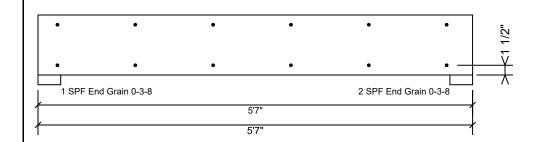
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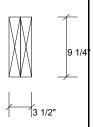
Kerto-S LVL HDR1

1.750" X 9.250"

2-Ply - PASSED

Level: Level





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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.
См	1
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 6/28/2026

Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 www.metsawood.com/us

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Date: 7/29/2024 Input by: Neal Baggett

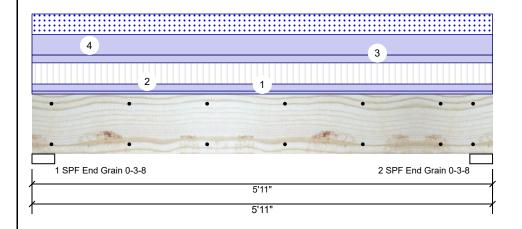
Job Name: 71 LIBERTY MEADOWS

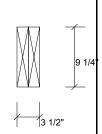
Project #:

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

Level: Level

Reactions UNPATTERNED Ib (Uplift)





Page 7 of 11

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

Member Information

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

			,			
Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	961	1758	929	0	0
2	Vertical	961	1758	929	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3998 ft-lb	2'11 1/2"	14423 ft-lb	0.277 (28%)	D+0.75(L+S)	L
Unbraced	3998 ft-lb	2'11 1/2"	11110 ft-lb	0.360 (36%)	D+0.75(L+S)	L
Shear	2041 lb	1' 3/4"	7943 lb	0.257 (26%)	D+0.75(L+S)	L
LL Defl inch	0.027 (L/2418)	2'11 1/2"	0.136 (L/480)	0.198 (20%)	0.75(L+S)	L
TL Defl inch	0.061 (L/1080)	2'11 1/2"	0.182 (L/360)	0.333 (33%)	D+0.75(L+S)	L

Bearings

End Grain

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" 1758 / 1418 3176 L D+0.75(L+S) Vert End Grain 2 - SPF 3.500" 1758 / 1418 3176 L D+0.75(L+S) Vert

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

o Eateral sicilatiness ratio based on single pry water.											
	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	45 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
	2	Uniform			Тор	108 PLF	325 PLF	0 PLF	0 PLF	0 PLF	FLOOR TRUSSES
	3	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
	4	Uniform			Тор	314 PLF	0 PLF	314 PLF	0 PLF	0 PLF	ROOF TRUSSES
		Self Weight				7 PLF					

Notes

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- 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

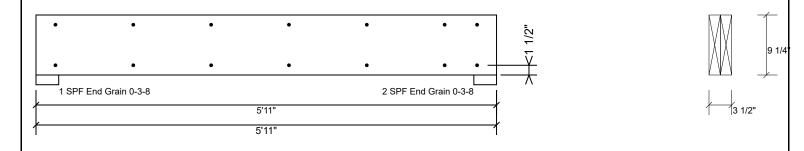
 Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

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

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Client: Date: 7/29/2024 Page 8 of 11 Project: Input by: Neal Baggett isDesign Address: Job Name: 71 LIBERTY MEADOWS Project #: **Kerto-S LVL** 1.750" X 9.250" 2-Ply - PASSED Level: Level HDR2



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.
См	1
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

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7/29/2024 Input by:

Neal Baggett Job Name: 71 LIBERTY MEADOWS

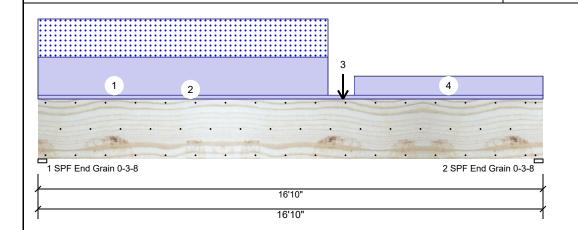
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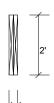
Kerto-S LVL GDH-SL

1.750" X 24.000"

2-Ply - PASSED

Level: Level





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Member Information

Type: 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 UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	4582	4003	0	0
2	Vertical	0	4963	3779	0	0

Analysis Results

•						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	51968 ft-lb	10'2"	84163 ft-lb	0.617 (62%)	D+S	L
Unbraced	51968 ft-lb	10'2"	52217 ft-lb	0.995 (100%)	D+S	L
Shear	8324 lb	14'6 1/2"	20608 lb	0.404 (40%)	D+S	L
LL Defl inch	0.159 (L/1238)	9' 1/8"	0.410 (L/480)	0.388 (39%)	S	L
TL Defl inch	0.341 (L/577)	9' 3/16"	0.547 (L/360)	0.624 (62%)	D+S	L

Bearings

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1-SPF 3.500" 4582 / 4003 8585 L D+S Vert End Grain 2 - SPF 3.500" 4963 / 3779 8742 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 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 3'3 9/16" 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	Part. Uniform	0-0-0 to 9-8-0		Тор	300 PLF	0 PLF	300 PLF	0 PLF	0 PLF	B2 & B3 TRUSSES
2	Uniform			Тор	30 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
3	Point	10-2-0		Тор	4882 lb	0 lb	4882 lb	0 lb	0 lb	B3-GRD
	Bearing Length	0-3-8								

Continued on page 2...

Notes

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 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
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 regarding installation requirements, multi-ply
 fastening details, beam strength values, and code
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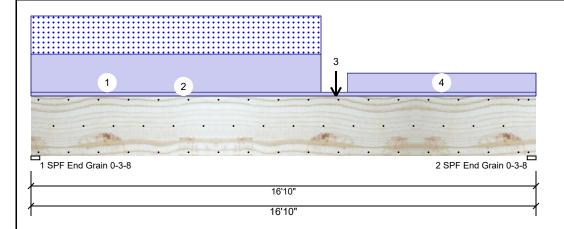
Client: Project: Address: Date: 7/29/2024 Input by: Neal Baggett

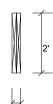
Job Name: 71 LIBERTY MEADOWS

Project #:

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

Level: Level





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.Continued from page 1

Location Trib Width Dead 0.9 ID Load Type Side Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments 4 Part. Uniform 10-6-8 to 16-10-0 Тор 150 PLF 0 PLF 0 PLF 0 PLF 0 PLF FLOOR & WALL Self Weight 19 PLF

Notes

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Handling & Installation

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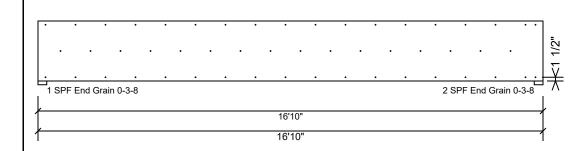
Date: 7/29/2024 Input by: Neal Baggett

Job Name: 71 LIBERTY MEADOWS

Project #:

Kerto-S LVL GDH-SL

1.750" X 24.000" 2-Ply - PASSED Level: Level





Page 11 of 11

Multi-Ply Analysis

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Load	0.0 PLF	
Yield Limit per Foot	245.6 PLF	
Yield Limit per Fastener	81.9 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1.00	

Notes

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