

RE: J0823-4324

Precision/Lot 35 Liberty Meadows/Harnett

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0823-4324

Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-10 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 18 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	157763285	A1-GE	4/13/2023
2	157763286	A2	4/13/2023
3	157763287	A3	4/13/2023
4	157763288	A4-GE	4/13/2023
5	157763289	A5	4/13/2023
6	157763290	A6-GE	4/13/2023
7	157763291	B1-GE	4/13/2023
8	157763292	B2	4/13/2023
9	157763293	B3	4/13/2023
10	157763294	C1-GE	4/13/2023
11	157763295	C2	4/13/2023
12	157763296	C3	4/13/2023
13	157763297	D1-GE	4/13/2023
14	157763298	D2	4/13/2023
15	157763299	P1SG	4/13/2023
16	157763300	P2	4/13/2023
17	157763301	VB1	4/13/2023
18	157763302	VB2	4/13/2023

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



April 13, 2023

.lob Truss Truss Type Qty Precision/Lot 35 Liberty Meadows/Harnett 157763285 .10823-4324 A1-GE GABLE lob Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 13:10:40 2023 Page ID:9fna8k_aSfLEiCIAbt3H8pzSXOz-oC7LnZswbxusOTYLlhOK6_QINHr_S48qoSnV_ZzR79T 1-2-8 12-9-8 25-7-0 12-9-8 Scale = 1:58.3 5x5 = 8.00 12 9 10 11 4x6 / 4x6 <> 12 5⁶ 13 14 15 16 17 [2 ***************** 20 19 18 3x4 =3x4 =30 29 28 27 26 25 24 23 22 21 4x6 = LOADING (psf) SPACING-CSI. DEFL. (loc) L/d **PLATES** GRIP 2-0-0 in I/defl Plate Grip DOL 244/190 TCLL 20.0 1.15 TC 0.14 Vert(LL) -0.03 18-19 >999 360 MT20

LUMBER-

TCDL

BCLL

BCDI

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

10.0

10.0

0.0

Wind(LL) **BRACING-**

Vert(CT)

Horz(CT)

-0.06 18-19

0.05 18-19

16

0.00

>999

>999

n/a

240

n/a

240

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. T-Brace: 2x4 SPF No.2 - 9-25

Weight: 214 lb

FT = 20%

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 17-7-8 except (jt=length) 16=0-3-8, 21=0-3-8.

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

1.15

YES

(lb) -Max Horz 2=-277(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 25, 26, 27, 28, 29, 23 except 30=-116(LC 12), 22=-615(LC

BC

WB

Matrix-S

0.32

0.13

20), 21=-603(LC 13)

All reactions 250 lb or less at joint(s) 2, 25, 26, 27, 28, 29, 30, 23 except 16=378(LC 1), 22=299(LC

13), 21=1201(LC 20)

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

TOP CHORD 2-3=-254/185, 8-9=-265/257, 9-10=-262/256, 10-11=-262/220

WEBS 13-20=-286/174

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
- 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.
- 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, 16, 25, 26, 27, 28, 29, 23 except (jt=lb) 30=116, 22=615, 21=603.
- 9) 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
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

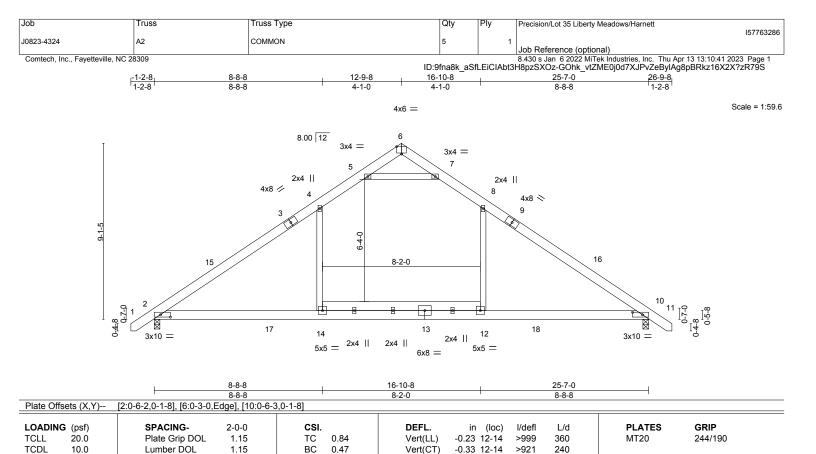


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)





Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.03

0.19 2-14

10

n/a

>999

n/a

240

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

Structural wood sheathing directly applied or 4-10-5 oc purlins.

Weight: 180 lb

FT = 20%

LUMBER-

BCLL

BCDL

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

0.0

10.0

2x4 SP No.2

REACTIONS. (lb/size) 2=1085/0-3-8 (min. 0-1-9), 10=1085/0-3-8 (min. 0-1-9)

Code IRC2015/TPI2014

Max Horz 2=222(LC 11)

Max Uplift 2=-71(LC 12), 10=-71(LC 13) Max Grav 2=1320(LC 19), 10=1320(LC 20)

Rep Stress Incr

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

TOP CHORD 2-15=-1781/223, 3-15=-1622/232, 3-4=-1585/260, 4-5=-1224/322, 5-6=-171/751,

6-7=-171/752, 7-8=-1223/322, 8-9=-1585/260, 9-16=-1621/232, 10-16=-1781/224 **BOT CHORD** 2-17=-38/1368, 14-17=-38/1368, 13-14=-38/1368, 12-13=-38/1368, 12-18=-38/1368,

YES

10-18=-38/1368

WEBS 8-12=0/616, 4-14=0/616, 5-7=-2174/573

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 12-9-8, Exterior(2) 12-9-8 to 17-0-4, Interior(1) 17-0-4 to 26-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WR

Matrix-S

0.55

- 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, 10.
- 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.

LOAD CASE(S) Standard



April 13,2023

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Job Truss Truss Type Qty Precision/Lot 35 Liberty Meadows/Harnett 157763287 .10823-4324 АЗ COMMON Job Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 13:10:41 2023 Page ID:9fna8k_aSfLEiCIAbt3H8pzSXOz-GOhk_vtZME0j0d7XJPvZeByl_g8iBRgz16X2X?zR79S -1-2-8 1-2-8 8-8-8 12-9-8 16-10-8 25-7-0 8-8-8 4-1-0 4-1-0 8-8-8 Scale = 1:58.3 4x6 = 8.00 12 6 3x4 = 3x4 =2x4 || 2x4 || 4x8 / 8 4x8 < 6-4-0 15 8-2-0 10 0-4-8 0-7-0 0-7-0 16 12 17 13 11 3x10 = 3x6 =2x4 || 2x4 || 2x4 || 5x5 = 5x5 = 6x8 = 8-8-8 16-10-8 25-7-0 8-8-8 8-8-8 8-2-0 [2:0-6-2,0-1-8], [6:0-3-0,Edge] Plate Offsets (X,Y)--

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

in (loc)

10

-0.24 11-13

-0.34 11-13

0.03

0.19 2-13 I/def

>999

>902

>999

n/a

L/d

360

240

n/a

240

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

PLATES

Weight: 177 lb

MT20

Structural wood sheathing directly applied or 4-7-14 oc purlins.

GRIP

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

20.0

10.0

10.0

0.0

REACTIONS. (lb/size) 2=1087/0-3-8 (min. 0-1-9), 10=1010/0-3-8 (min. 0-1-8)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

Max Horz 2=217(LC 9)

Max Uplift 2=-71(LC 12), 10=-53(LC 13) Max Grav 2=1321(LC 19), 10=1250(LC 20)

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

TOP CHORD 2-14=-1786/226, 3-14=-1627/235, 3-4=-1590/263, 4-5=-1226/323, 5-6=-188/759, 6-7=-176/761, 7-8=-1226/331, 8-9=-1583/264, 9-15=-1626/235, 10-15=-1779/233

BOT CHORD 2-16=-65/1363, 13-16=-65/1363, 12-13=-65/1363, 11-12=-65/1363, 11-17=-65/1363,

2-0-0

1.15

1.15

YES

CSI

TC

BC

WR

Matrix-S

0.85

0.48

0.56

10-17=-65/1363

WEBS 8-11=0/610, 4-13=0/618, 5-7=-2191/603

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 12-9-8, Exterior(2) 12-9-8 to 17-0-4, Interior(1) 17-0-4 to 25-5-4 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) 2, 10.
- 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.

LOAD CASE(S) Standard



April 13,2023

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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)



.lob Truss Truss Type Qty Precision/Lot 35 Liberty Meadows/Harnett 157763288 .10823-4324 A4-GF GABLE Job Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 13:10:42 2023 Page ID:9fna8k_aSfLEiCIAbt3H8pzSXOz-kbF6CFuB6Y8adnijt6RoBPV_T4TnwqJ7GmGb3RzR79R 12-9-8 16-10-8 8-8-8 4-1-0 8-8-8 Scale = 1:57.6 5x8 || 6 8.00 12 5x8 / 4x6 > ⁹10 3x10 || 11 3x10 || 12 20 13 12 IS 25 18 19 17 15 14 3x6 = 5x5 = 5x5 = 6x6 = 3x10 | | 16-10-8 25-7-0 8-8-8 8-8-8 Plate Offsets (X,Y)--[2:0-3-6,0-1-8], [21:0-4-1,0-1-12]

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

JOINTS

TOP CHORD

BOT CHORD

in (loc)

2-19

13

-0.21 17-19

-0.38

0.02

0.24 2-19 I/defl

>999

>800

>999

n/a

1 Brace at Jt(s): 20, 21, 22

L/d

360

240

n/a

240

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

Structural wood sheathing directly applied or 4-8-4 oc purlins.

20.0 **TCDL** 10.0 BCLL 0.0 10.0

LOADING (psf)

TCLL

BCDL

LUMBER-TOP CHORD 2x6 SP No.1

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

5-16: 2x8 SP No.1 **OTHERS** 2x4 SP No.2

REACTIONS. (lb/size) 2=1087/0-3-8 (min. 0-1-8), 13=1010/0-3-8 (min. 0-1-8)

Code IRC2015/TPI2014

Max Horz 2=271(LC 9)

Max Uplift 2=-231(LC 12), 13=-195(LC 13) Max Grav 2=1237(LC 19), 13=1082(LC 20)

SPACING-

Plate Grip DOL

Rep Stress Incr

Lumber DOL

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

TOP CHORD 2-3=-1509/276, 3-4=-1308/297, 4-5=-1049/393, 5-6=-1470/603, 6-7=-1329/557,

7-8=-1262/474, 8-9=-1331/435, 9-10=-1373/426, 10-11=-1279/342, 11-12=-1331/309,

12-13=-1384/246

BOT CHORD 2-25=-152/1228, 19-25=-152/1228, 18-19=-152/1228, 17-18=-152/1228, 16-17=-150/1210,

2-0-0

1.15

1.15

YES

CSI

TC

BC

WR

Matrix-S

0.61

0.55

0.79

15-16=-129/1044, 14-15=-129/1044, 13-14=-129/1044

WEBS 17-20=-80/719, 4-19=0/509, 5-21=-718/259, 21-22=-323/538, 22-24=-254/433 20-24=-212/456, 20-23=-334/255, 16-23=-454/194, 6-21=-563/1399, 10-23=-283/154

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 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, 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=231 13=195
- 9) 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.

LOAD CASE(S) Standard



PLATES

Weight: 225 lb

MT20

GRIP

244/190

FT = 20%

April 13,2023

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.lob Truss Truss Type Qty Ply Precision/Lot 35 Liberty Meadows/Harnett 157763289 .10823-4324 A5 ROOF SPECIAL 6 Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 13:10:42 2023 Page ID:9fna8k_aSfLEiCIAbt3H8pzSXOz-kbF6CFuB6Y8adnijt6RoBPV5M4V7wxp7GmGb3RzR79R

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

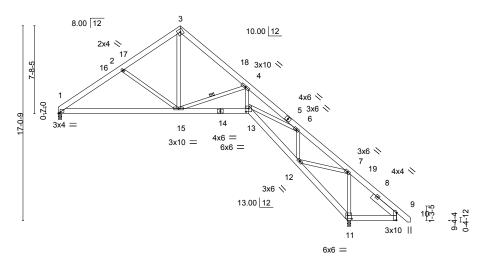
4-15

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

1 Row at midpt

10-7-15 20-11-11 25-3-8 29-7-0 30-9-8 5-0-2 5-11-15 4-3-13 4-3-13

> Scale = 1:100.8 6x6 //



20-11-11 29-7-0 10-7-15 5-11-15

[1:0-1-14,0-1-1], [9:0-7-11,0-0-3], [11:0-4-4,0-3-8], [13:0-3-0,0-3-8] Plate Offsets (X,Y)--

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) -0).11 13	>999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0).22 13	>999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.37	Horz(CT) 0).27 11	n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0	0.04 13	>999 240	Weight: 232 lb FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

Right 2x6 SP No.1 2-8-15 **SLIDER**

REACTIONS. (lb/size) 1=964/0-3-8 (min. 0-1-8), 11=1456/0-3-8 (min. 0-1-11)

Max Horz 1=-395(LC 13)

Max Uplift 1=-9(LC 12), 11=-186(LC 13)

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

TOP CHORD 1-16=-1361/204, 2-16=-1215/224, 2-17=-1103/153, 3-17=-1013/185, 3-18=-1075/152,

4-18=-1156/112, 4-5=-3039/0, 5-6=-3127/0, 6-7=-1278/145, 7-19=-98/373,

8-19=-112/285, 8-9=-131/286

BOT CHORD 1-15=0/1165, 14-15=0/2237, 13-14=0/2237, 9-11=-251/186, 12-13=0/1320,

11-12=-460/312

WFBS 2-15=-361/228, 3-15=-35/911, 4-15=-1511/53, 4-13=0/1507, 6-13=0/1517, 6-12=-949/52,

7-12=0/1154, 7-11=-1100/236

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) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 10-7-15, Exterior(2) 10-7-15 to 15-0-12, Interior(1) 15-0-12 to 30-8-1 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 except (jt=lb) 11=186
- 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.

LOAD CASE(S) Standard



April 13,2023



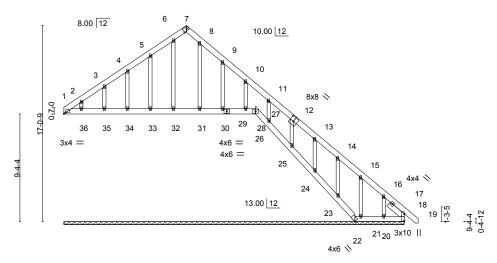
Job Truss Truss Type Qty Precision/Lot 35 Liberty Meadows/Harnett 157763290 J0823-4324 A6-GE GABLE lob Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 13:10:43 2023 Page ID:9fna8k_aSfLEiCIAbt3H8pzSXOz-DnpUPbuptsGRFxHwQqy1jc2HxUxtfRAGUQ09buzR79Q

30-9-8 1-2-8 10-7-15 29-7-0 10-7-15 18-11-1

> Scale = 1:100.1 4x6 //



16-7-14 16-7-14

Plate Offsets (X,Y)-- [1:0-1-14,0-1-1], [7:0-3-15,0-2-0], [12:0-4-0,0-4-8], [18:0-7-11,0-0-3]

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	0.12	Vert(LL)	-0.00	18	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	ВС	0.05	Vert(CT)	-0.00	18	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.02	18	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	PI2014	Matri	x-S						Weight: 244 lb	FT = 20%

LUMBER-**BRACING-**

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

Right 2x6 SP No.1 1-8-15 SLIDER

REACTIONS. All bearings 29-7-0.

(lb) - Max Horz 1=-590(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 18, 32, 34, 35, 36, 26, 24 except 1=-138(LC 8), 27=-141(LC 11)

22=-440(LC 13), 33=-123(LC 12), 30=-171(LC 13), 28=-106(LC 13), 25=-145(LC 13), 23=-102(LC 13),

21=-110(LC 13), 20=-290(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 22, 33, 34, 35, 36, 31, 30, 28, 26, 25, 24, 23, 21, 20

except 27=404(LC 13), 18=391(LC 13), 32=285(LC 13)

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

1-2=-264/269, 2-3=-243/267, 3-4=-221/308, 4-5=-252/352, 5-6=-335/423, 6-7=-249/287,

7-8=-261/289, 8-9=-348/403, 9-10=-239/268, 15-16=-328/232, 16-17=-515/387,

17-18=-540/392

BOT CHORD 1-36=-311/420, 35-36=-311/420, 34-35=-311/420, 33-34=-311/420, 32-33=-311/420,

31-32=-311/420, 30-31=-311/420, 29-30=-311/420, 28-29=-311/420, 27-28=-310/420, 21-22=-287/400, 20-21=-287/400, 18-20=-287/400, 26-27=-444/588, 25-26=-471/626,

24-25=-441/601, 23-24=-440/601, 22-23=-442/614

WEBS 6-32=-259/114, 16-20=-282/283

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) 18, 32, 34, 35, 36, 26, 24 except (jt=lb) 1=138, 27=141, 22=440, 33=123, 30=171, 28=106, 25=145, 23=102, 21=110, 20=290.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 27, 32, 33, 34, 35, 36, 31, 30, 28, 26, 25, 24. 23.

11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and

Continue temperature and ANSI/TPI 1



Edenton, NC 27932

SEAL

ORTH

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Liberty Meadows/Harnett
J0823-4324	A6-GE	GABLE	4	1	157763290
30023-4324	A0-GE	GABLE	'	'	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 13:10:43 2023 Page 2 ID:9fna8k_aSfLEiCIAbt3H8pzSXOz-DnpUPbuptsGRFxHwQqy1jc2HxUxtfRAGUQ09buzR79Q

LOAD CASE(S) Standard



.lob Truss Truss Type Qty Precision/Lot 35 Liberty Meadows/Harnett 157763291 .10823-4324 B1-GE GABLE Job Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 13:10:44 2023 Page ID:hxY3pmLvDCe?dFTuxKh62hywwcV-hzNsdxvRe9PHt5s6_XTGGqaS4uEIOv2Qj4li7KzR79P 11-7-8 -1-2-8 5-2-8 Scale = 1:24.8 4x4 = 4 2x4 || 5^{2x4} || 8.00 12 3 6 0-2-0 9 8 10 2x4 || 2x4 || 2x4 || 3x4 = 3x4 =

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

10-5-0 5-2-8

I/defl

n/a

8 >999

8 >999

6

10 >999

in (loc)

-0.01

-0.02

0.00

0.01

L/d

360

240

n/a

240

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

PLATES

Weight: 59 lb

MT20

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

GRIP

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDI

LOADING (psf)

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

20.0

10.0

10.0

0.0

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

REACTIONS. (lb/size) 2=486/0-3-8 (min. 0-1-8), 6=486/0-3-8 (min. 0-1-8)

Max Horz 2=-128(LC 10)

Max Uplift 2=-117(LC 12), 6=-117(LC 13)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

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

TOP CHORD 2-3=-455/102, 3-4=-465/192, 4-5=-465/192, 5-6=-455/102 **BOT CHORD** 2-10=-17/331, 9-10=-17/331, 8-9=-17/331, 6-8=-17/331

4-9=-137/374 **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

CSI.

TC

BC

WB 0.07

Matrix-S

0.09

0.14

- 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 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.

2-0-0

1.15

1.15

YES

- 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) 2=117, 6=117,
- 8) 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.

LOAD CASE(S) Standard





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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.lob Truss Truss Type Qty Precision/Lot 35 Liberty Meadows/Harnett 157763292 .10823-4324 B2 COMMON Job Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 13:10:44 2023 Page ID:hxY3pmLvDCe?dFTuxKh62hywwcV-hzNsdxvRe9PHt5s6_XTGGqaQ6uF5OwEQj4li7KzR79P -1-2-8 5-2-8 11-7-8 Scale = 1:24.8 4x4 = 3 8.00 12 10 0-2-0 6 2x4 II 3x4 = 3x4 =10-5-0 Plate Offsets (X,Y)--[2:0-0-8,0-0-2], [4:0-0-8,0-0-2] LOADING (psf) SPACING-**PLATES** GRIP 2-0-0 CSI DEFL. in (loc) I/defl L/d **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.22 Vert(LL) -0.01 4-6 >999 360 MT20 244/190

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.01

0.00

-0.01

4-6

4-6

4

>999

>999

n/a

240

n/a

240

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

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

Weight: 53 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

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

10.0

10.0

0.0

WEBS 2x4 SP No.2

REACTIONS. (lb/size) 2=486/0-3-8 (min. 0-1-8), 4=486/0-3-8 (min. 0-1-8)

Max Horz 2=-103(LC 10)

Max Uplift 2=-41(LC 12), 4=-41(LC 13)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

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

TOP CHORD 2-7=-474/97, 7-8=-408/112, 3-8=-404/129, 3-9=-404/129, 9-10=-409/112, 4-10=-474/97

1.15

YFS

BOT CHORD 2-6=0/317, 4-6=0/317

WEBS 3-6=0/253

- 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 5-2-8, Exterior(2) 5-2-8 to 9-7-5, Interior(1) 9-7-5 to 11-7-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

BC

WR

Matrix-S

0.12

0.06

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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) 2, 4.
- 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.

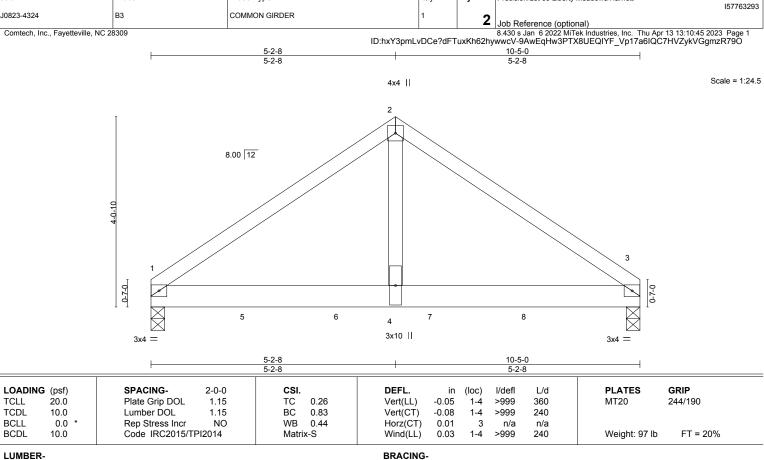
LOAD CASE(S) Standard



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 bucking 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)





TOP CHORD

BOT CHORD

Qty

Ply

Precision/Lot 35 Liberty Meadows/Harnett

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

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

LUMBER-

.lob

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

REACTIONS. 1=2442/0-3-8 (min. 0-1-10), 3=3326/0-3-8 (min. 0-2-4) (lb/size)

Max Horz 1=-88(LC 23)

Truss

Truss Type

Max Uplift 1=-154(LC 8), 3=-207(LC 9) Max Grav 1=2770(LC 2), 3=3818(LC 2)

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

TOP CHORD 1-2=-3377/212, 2-3=-3378/212

BOT CHORD 1-5=-122/2704, 5-6=-122/2704, 4-6=-122/2704, 4-7=-122/2704, 7-8=-122/2704,

3-8=-122/2704 **WEBS** 2-4=-136/3593

NOTES-

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

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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=154, 3=207.
- 8) 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.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1174 lb down and 73 lb up at 2-0-12, 1174 lb down and 73 lb up at 4-0-12, 1174 lb down and 73 lb up at 6-0-12, and 1174 lb down and 73 lb up at 8-0-12, and 1182 lb down and 65 lb up at 10-3-4 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



👠 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	Precision/Lot 35 Liberty Meadows/Harnett
J0823-4324	B3	COMMON GIRDER	1		157763293
00020 4024		Odminor direction	'	2	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 13:10:45 2023 Page 2 ID:hxY3pmLvDCe?dFTuxKh62hywwcV-9AwEqHw3PTX8UEQIYF_Vp17a6IQC7HVZykVGgmzR79O

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 3=-998(B) 5=-990(B) 6=-990(B) 7=-990(B) 8=-990(B)

818 Soundside Road Edenton, NC 27932



Job Truss Truss Type Qty Precision/Lot 35 Liberty Meadows/Harnett 157763294 .10823-4324 C1-GE ATTIC Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

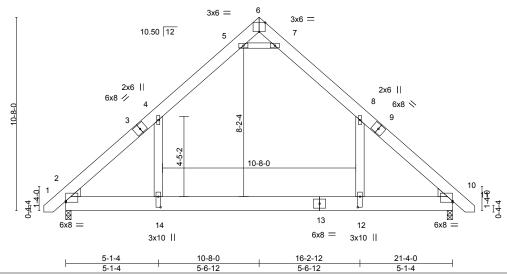
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 13:10:46 2023 Page ID:hxY3pmLvDCe?dFTuxKh62hywwcV-dMUd2cxhAnf?6O?V6yVkLFgdmhoYspgiBOEpCCzR79N

Structural wood sheathing directly applied or 5-1-14 oc purlins.

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

10-8-0 12-5-7 11-6-7 0-10-7 0-11-0 3-9-5 $^{0-10-7}_{6x8} \stackrel{0-11-0}{=}$

Scale: 3/16"=1'



[2:0-0-0,0-0-13], [6:0-4-0,Edge], [10:Edge,0-0-13], [12:0-7-0,0-1-8], [14:0-7-0,0-1-8] Plate Offsets (X,Y)--

LOADIN	\(\(\mathrea{\pi}\)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) -0.21 12-14 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.69	Vert(CT) -0.37 12-14 >677 240	
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) 0.10 12-14 >999 240	Weight: 209 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x8 SP No.1 **BOT CHORD** 2x10 SP No.1 2x6 SP No.1 *Except* **WEBS** 5-7: 2x4 SP No.1

WEDGE

Left: 2x6 SP No.1, Right: 2x6 SP No.1

REACTIONS. (lb/size) 2=1180/0-3-8 (min. 0-1-11), 10=1180/0-3-8 (min. 0-1-11)

Max Horz 2=-305(LC 10)

Max Grav 2=1429(LC 20), 10=1429(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 2-3=-1840/0, 3-4=-1660/0, 4-5=-1041/173, 5-6=-112/1126, 6-7=-112/1128,

7-8=-1041/173, 8-9=-1659/0, 9-10=-1840/0

BOT CHORD 2-14=0/1091, 13-14=0/1091, 12-13=0/1091, 10-12=0/1091

WEBS 8-12=0/904, 4-14=0/904, 5-7=-2435/392

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) 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) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).8-12, 4-14
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- 7) 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
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 9) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



April 13,2023

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Job Truss Truss Type Qty Precision/Lot 35 Liberty Meadows/Harnett 157763295 .10823-4324 C2 ATTIC Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 13:10:47 2023 Page ID:hxY3pmLvDCe?dFTuxKh62hywwcV-5Y2?FyyJx4nskYahff0zuSCnW58nbGwsP1_MkfzR79M

Structural wood sheathing directly applied or 5-1-14 oc purlins.

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

10-8-0 12-5-7 11-6-7 0-10-7 0-11-0 $^{0-10-7}_{6x8} \stackrel{0-11-0}{=}$

Scale: 3/16"=1'

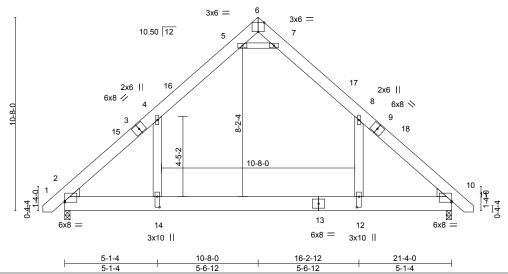


Plate Offsets (X,Y)--[2:0-0-0,0-0-13], [6:0-4-0,Edge], [10:Edge,0-0-13], [12:0-7-0,0-1-8], [14:0-7-0,0-1-8]

LOADIN	\(\(\mathrea\)	SPACING- 2-0-0	CSI.	DEFL . in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) -0.21 12-14 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.69	Vert(CT) -0.37 12-14 >677 240	
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) 0.07 12-14 >999 240	Weight: 209 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x8 SP No.1 **BOT CHORD** 2x10 SP No.1 2x6 SP No.1 *Except* **WEBS** 5-7: 2x4 SP No.1

WEDGE

Left: 2x6 SP No.1, Right: 2x6 SP No.1

REACTIONS. (lb/size) 2=1180/0-3-8 (min. 0-1-11), 10=1180/0-3-8 (min. 0-1-11)

Max Horz 2=-244(LC 10)

Max Grav 2=1431(LC 20), 10=1431(LC 21)

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

TOP CHORD 2-15=-1824/0, 3-15=-1682/0, 3-4=-1644/0, 4-16=-1039/77, 5-16=-859/139, 5-6=-67/1124,

6-7=-67/1125, 7-17=-859/139, 8-17=-1038/77, 8-9=-1643/0, 9-18=-1681/0,

10-18=-1824/0

BOT CHORD 2-14=0/1069, 13-14=0/1069, 12-13=0/1069, 10-12=0/1069

WEBS 8-12=0/904, 4-14=0/904, 5-7=-2449/256

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) -0-11-7 to 3-5-6, Interior(1) 3-5-6 to 10-8-0, Exterior(2) 10-8-0 to 15-0-13, Interior(1) 15-0-13 to 22-3-7 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) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).8-12, 4-14
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- 7) 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.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 9) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



April 13,2023

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

a duss system. Before use, the culturing design 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)



.lob Truss Truss Type Qty Precision/Lot 35 Liberty Meadows/Harnett 157763296 .10823-4324 СЗ ATTIC Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

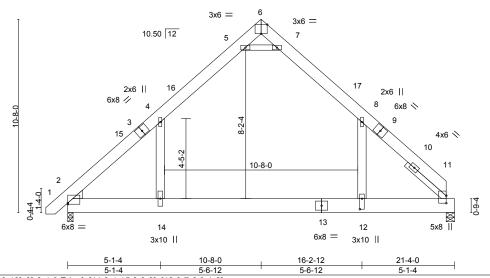
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 13:10:47 2023 Page ID:hxY3pmLvDCe?dFTuxKh62hywwcV-5Y2?FyyJx4nskYahff0zuSCo458?bGvsP1_MkfzR79M

Structural wood sheathing directly applied or 5-3-4 oc purlins.

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

10-8-0 12-5-7 11-6-7 0-10-7 8-10-9 0-11-0 $^{0-10-7}_{6x8} \stackrel{0-11-0}{=}$

Scale: 3/16"=1'



[2:0-0-0,0-0-13], [6:0-4-0,Edge], [11:0-4-15,0-0-0], [12:0-7-0,0-1-8] Plate Offsets (X,Y)--

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.20	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.35	12-14	>713	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code IRC2015/Ti	PI2014	Matri	x-S	Wind(LL)	0.07	12-14	>999	240	Weight: 206 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x8 SP No.1 **BOT CHORD** 2x10 SP No.1 2x6 SP No.1 *Except* **WEBS** 5-7: 2x4 SP No.1

WEDGE Left: 2x6 SP No 1

SLIDER Right 2x4 SP No.2 2-11-0

REACTIONS. (lb/size) 2=1165/0-3-8 (min. 0-1-11), 11=1104/0-5-8 (min. 0-1-10)

Max Horz 2=241(LC 9)

Max Grav 2=1412(LC 20), 11=1363(LC 21)

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

TOP CHORD 2-15=-1777/0, 3-15=-1634/0, 3-4=-1597/0, 4-16=-1019/79, 5-16=-839/140, 5-6=-83/1062, 6-7=-71/1068, 7-17=-837/145, 8-17=-1016/84, 8-9=-1627/0, 9-10=-1643/0,

10-11=-1823/0

2-14=0/1038, 13-14=0/1038, 12-13=0/1038, 11-12=0/1038

WEBS 8-12=0/912, 4-14=0/867, 5-7=-2344/288

NOTES-

BOT CHORD

- 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) -0-11-7 to 3-5-6, Interior(1) 3-5-6 to 10-8-0, Exterior(2) 10-8-0 to 15-0-13, Interior(1) 15-0-13 to 20-10-8 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) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).8-12, 4-14
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- 7) 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.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 9) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



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Job Truss Truss Type Qty Ply Precision/Lot 35 Liberty Meadows/Harnett 157763297 J0823-4324 D1-GE GABLE Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 13:10:47 2023 Page ID:9fna8k_aSfLEiCIAbt3H8pzSXOz-5Y2?FyyJx4nskYahff0zuSCzI5IRbH2sP1_MkfzR79M

6-3-0 5-0-8

Scale = 1:33.2

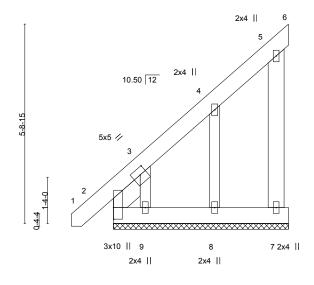


Plate Off	fsets (X,Y)	[2:0-4-0,0-0-2], [3:0-2-5,0-2-4]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.03	Vert(LL) -0.00 1 n/r 120	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.01	Vert(CT) -0.00 1 n/r 120	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) -0.00 6 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 51 lb FT = 20%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

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

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

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

REACTIONS. All bearings 5-0-8.

(lb) - Max Horz 2=249(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 6, 7, 2 except 8=-130(LC 12), 9=-256(LC 12) Max Grav All reactions 250 lb or less at joint(s) 6, 7, 8, 9 except 2=304(LC 12)

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

TOP CHORD 2-3=-449/384 WEBS 3-9=-314/305

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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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) Gable requires continuous bottom chord bearing.
- 4) 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.
- 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) 6, 7, 2 except (jt=lb) 8=130, 9=256
- 8) 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.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



Structural wood sheathing directly applied or 5-0-8 oc purlins, except

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

end verticals

April 13,2023



Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Liberty Meadows/Harnett
					157763298
J0823-4324	D2	MONOPITCH	4	1	Joh Deference (entional)
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

8.430 s.Jan 6.2022 MiTek Industries, Inc. Thu Apr 13 13:10:48 2023 Page 1 ID:9fna8k_aSfLEiCIAbt3H8pzSXOz-ZIcNSlyyiOvjLi9tDNXCQgl5FVdZKk6?ehjwG5zR79L

Structural wood sheathing directly applied or 5-0-8 oc purlins, except

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

5-0-8

Scale = 1:32.6

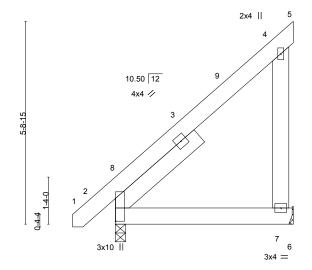


Plate Off	sets (X,Y)	[2:0-7-11,0-0-2]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	2-7	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	2-7	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a			
BCDL	10.0	Code IRC2015/TF	12014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 50 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

end verticals

LUMBER-

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

SLIDER Left 2x6 SP No.1 3-1-10

REACTIONS. (lb/size) 7=210/Mechanical, 2=257/0-3-8 (min. 0-1-8)

Max Horz 2=171(LC 12) Max Uplift 7=-111(LC 12)

Max Grav 7=241(LC 19), 2=257(LC 1)

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

TOP CHORD 4-7=-270/249

- 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) -1-0-12 to 3-4-1, Interior(1) 3-4-1 to 5-0-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

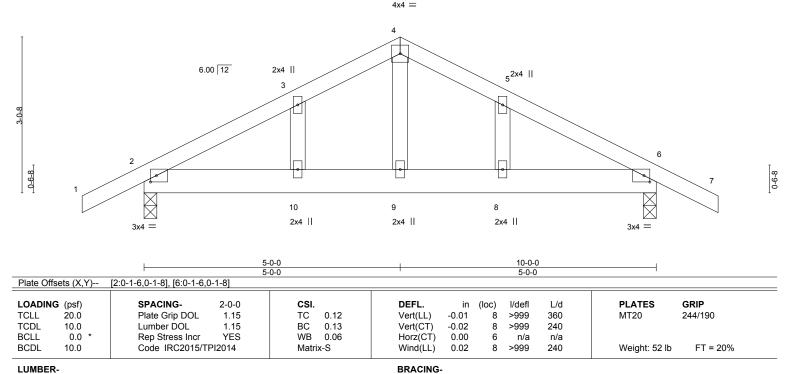


April 13,2023



.lob Truss Truss Type Qty Precision/Lot 35 Liberty Meadows/Harnett 157763299 J0823-4324 P1SG GABLE Job Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 13:10:48 2023 Page ID:cknxpF8IN4XOqqaFiU2EZQyegbe-ZlcNSIyyiOvjLi9tDNXCQgl7XVcqKk8?ehjwG5zR79L 5-0-0 10-0-0 11-2-8

Scale = 1:22.5



TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 **OTHERS**

REACTIONS. (lb/size) 2=470/0-3-0 (min. 0-1-8), 6=470/0-3-0 (min. 0-1-8)

Max Horz 2=63(LC 16)

Max Uplift 2=-121(LC 9), 6=-121(LC 8)

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

TOP CHORD 2-3=-503/565, 3-4=-463/621, 4-5=-463/621, 5-6=-503/565 **BOT CHORD** 2-10=-402/393, 9-10=-402/393, 8-9=-402/393, 6-8=-402/393

4-9=-425/256 **WEBS**

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; 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.
- 4) 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.
- 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) 2=121, 6=121,
- 8) 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.

LOAD CASE(S) Standard



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.

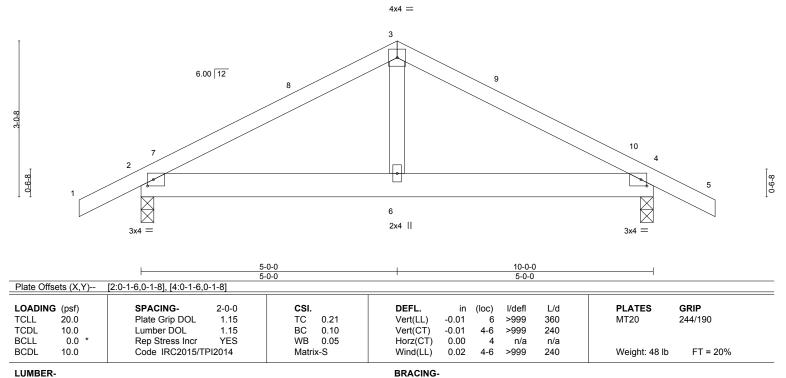
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.lob Truss Truss Type Qty Precision/Lot 35 Liberty Meadows/Harnett 157763300 .10823-4324 P2 COMMON Job Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 13:10:48 2023 Page ID:cknxpF8IN4XOqqaFiU2EZQyegbe-ZlcNSIyyiOvjLi9tDNXCQgl5DVdDKkG?ehjwG5zR79L 5-0-0 10-0-0 11-2-8

Scale = 1:22.5



TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.2

REACTIONS. (lb/size) 2=470/0-3-0 (min. 0-1-8), 4=470/0-3-0 (min. 0-1-8)

Max Horz 2=40(LC 11)

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-7=-515/540, 7-8=-501/553, 3-8=-427/568, 3-9=-427/568, 9-10=-501/553,

4-10=-515/540

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

3-6=-327/240 **WEBS**

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) 2, 4.
- 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.

LOAD CASE(S) Standard



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

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

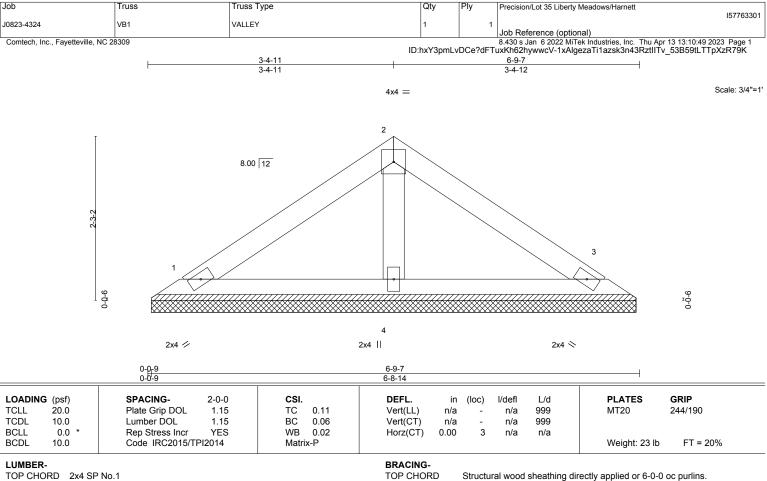
April 13,2023

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

BOT CHORD OTHERS 2x4 SP No.2 TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. 1=126/6-8-5 (min. 0-1-8), 3=126/6-8-5 (min. 0-1-8), 4=212/6-8-5 (min. 0-1-8) (lb/size)

Max Horz 1=47(LC 11)

Max Uplift 1=-20(LC 12), 3=-24(LC 13)

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.
- 7) 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.

LOAD CASE(S) Standard



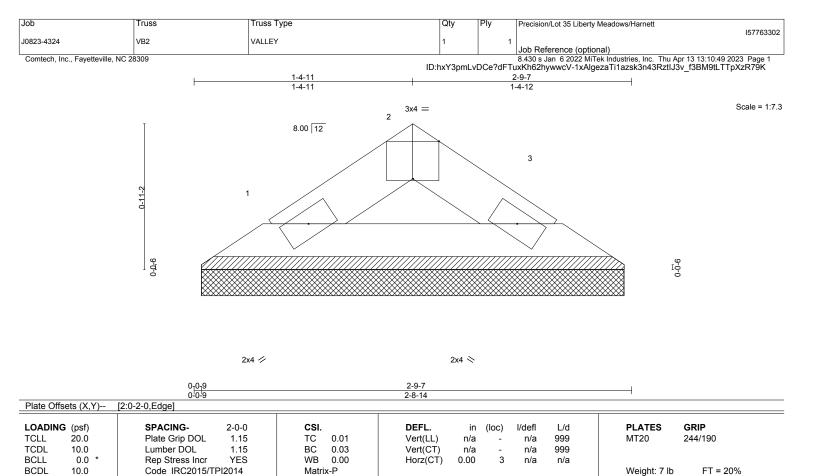




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1

BOT CHORD 2x4 SP No.1

REACTIONS. (lb/size) 1=72/2-8-5 (min. 0-1-8), 3=72/2-8-5 (min. 0-1-8)

Max Horz 1=15(LC 9)

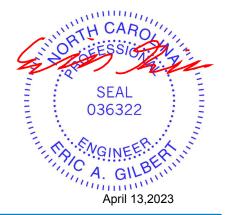
Max Uplift 1=-4(LC 12), 3=-4(LC 13)

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.
- 7) 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.

LOAD CASE(S) Standard



Structural wood sheathing directly applied or 2-9-7 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.

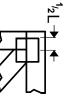
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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)

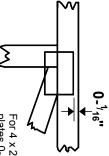


Symbols

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

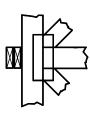
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

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



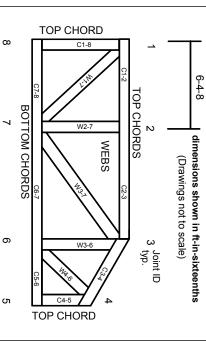
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses

ယ

- 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.
- œ Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the 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



RE: J0823-4325

Precision/Lot 35 Liberty Meadows/Harnett

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0823-4325

Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: N/A Wind Speed: N/A mph Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 12 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	157763303	ET1	4/13/2023
2	157763304	ET2	4/13/2023
3	157763305	ET3	4/13/2023
4	157763306	F1	4/13/2023
5	157763307	F2	4/13/2023
6	157763308	F3	4/13/2023
7	157763309	F4	4/13/2023
8	157763310	F5	4/13/2023
9	157763311	F6	4/13/2023
10	157763312	F7	4/13/2023
11	157763313	F8	4/13/2023
12	157763314	F9	4/13/2023

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



April 13, 2023

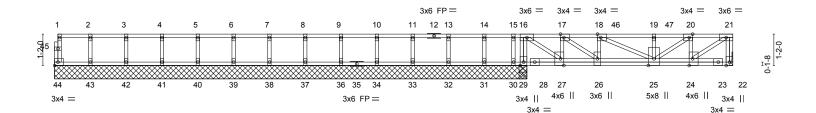
Job Truss Truss Type Qty Precision/Lot 35 Liberty Meadows/Harnett 157763303 J0823-4325 ET1 **GABLE** Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 12:06:19 2023 Page 1

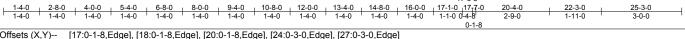
Comtech, Inc, Fayetteville, NC - 28314, ID:hxY3pmLvDCe?dFTuxKh62hywwcV-xcxA?keBvaa4WLzBKmR3on?wkt8iJpDWzF?hzrzR85o

Scale = 1:42.9

0-1-8

→ 1-3-0 17-1-0 1-11-0 HH





17-5-8

_Plate Offse	ets (X,Y)	[17:0-1-8,Edge], [18:0-1-8,E	dge], [20:0-	1-8,Edge], [2	24:0-3-0,Edge	e], [27:0-3-0,Edge]						
LOADING	i (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.20	Vert(LL)	-0.01	25	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.13	Vert(CT)	-0.03	25-26	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.00	22	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI20	014	Matri	x-S						Weight: 128 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, BOT CHORD 2x4 SP No.1(flat) except end verticals. **WEBS** 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2x4 SP No.3(flat) **OTHERS** 6-0-0 oc bracing: 27-29,22-24.

All bearings 17-7-0 except (jt=length) 22=Mechanical. REACTIONS.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 30=-145(LC 4)

Max Grav All reactions 250 lb or less at joint(s) 44, 30, 43, 42, 41, 40, 39, 38, 37, 36, 34, 33, 32, 31 except 22=624(LC 1), 29=741(LC 1), 29=741(LC 1)

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

TOP CHORD 21-22=-611/0, 16-17=-651/0, 17-18=-1053/0, 18-19=-1048/0, 19-20=-1048/0, 20-21=-676/0

BOT CHORD 26-27=0/651, 25-26=0/1053, 24-25=0/676

WEBS 16-29=-620/0, 16-27=0/785, 17-27=-466/0, 17-26=0/494, 18-26=-257/0, 21-24=0/818,

20-24=-442/0, 20-25=0/457, 19-25=-262/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 30.
- 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) 86 lb down at 18-10-12, 86 lb down at 20-10-12, and 86 lb down at 22-10-12, and 94 lb down at 25-1-8 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: 22-44=-10, 1-21=-100

Concentrated Loads (lb)

Vert: 17=-86(F) 21=-94(F) 46=-86(F) 47=-86(F)



April 13,2023

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 bucking 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)



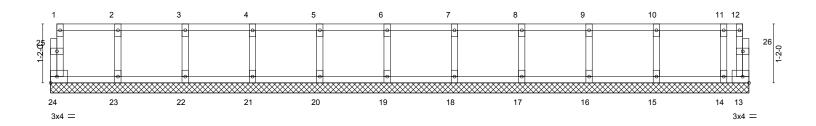
Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Liberty Meadows/Harnett
10000 4005	ГТО	GABLE		_	157763304
J0823-4325	E12	GABLE	'	'	Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc,

0118

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 12:06:20 2023 Page 1 ID:hxY3pmLvDCe?dFTuxKh62hywwcV-PpVYD4epguix7UYOtUylK Y8iHVf2M3gBvlEVlzR85n

Scale = 1:22.8



1-4-0 1-4-0		5-4-0 6-8-0 1-4-0 1-4-0	8-0-0 1-4-0	9-4-0 1-4-0	10-8-0	-4-0 13-10-0 4-0 0-6-0
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.06 BC 0.02 WB 0.03 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 13	l/defl L/d n/a 999 n/a 999 n/a n/a	GRIP 244/190 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**

2x4 SP No.3(flat)

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

except end verticals.

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

REACTIONS. All bearings 13-10-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

NOTES-

OTHERS

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





818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Liberty Meadows/Harnett
J0823-4325	ГТЭ	GABLE	1	_	157763305
30023-4325	E13	GABLE	'	'	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 12:06:21 2023 Page 1 ID:hxY3pmLvDCe?dFTuxKh62hywwcV-u?3wQPfRRBgole7aRBTXtC5lShr npJpQZUo2kzR85m

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

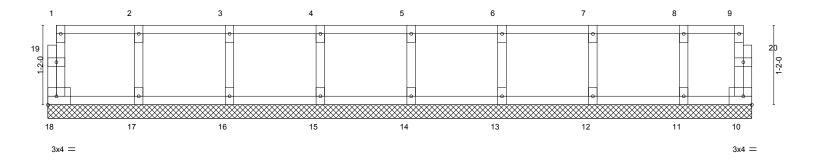
Rigid ceiling directly applied or 10-0-0 oc bracing.

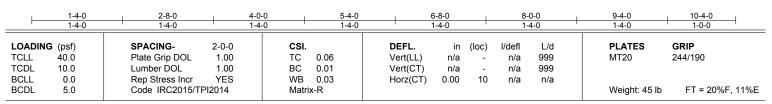
except end verticals.

0_1_8

0_1_8

Scale = 1:16.9





TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

2x4 SP No.3(flat)

REACTIONS. All bearings 10-4-0.

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

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

NOTES-

OTHERS

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



Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Liberty Meadows/Harnett
10000 4005		Floor			157763306
J0823-4325	F1 	Floor	8	1	Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 12:06:23 2023 Page 1 ID:hxY3pmLvDCe?dFTuxKh62hywwcV-qOBhr5hhzp4W_yHzZcW?ydARTVJwFaQ6utzv6czR85k

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

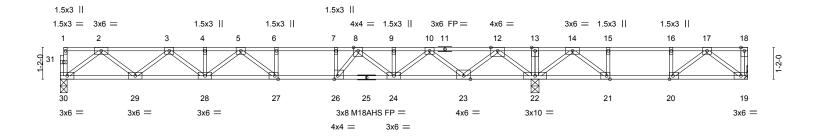
Rigid ceiling directly applied or 6-0-0 oc bracing.

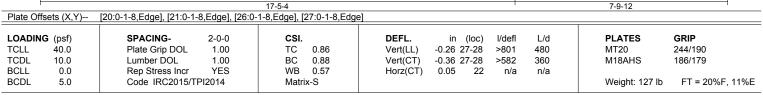
except end verticals.

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

2-0-12 0-9-0 2-2-4

Scale = 1:42.3





TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

WEBS 2x4 SP No.3(flat)

(size) 30=0-3-0, 19=Mechanical, 22=0-3-8

Max Uplift 19=-44(LC 3)

Max Grav 30=880(LC 10), 19=367(LC 4), 22=1620(LC 1)

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

2-3=-1831/0, 3-4=-2998/0, 4-5=-2998/0, 5-6=-3353/0, 6-7=-3353/0, 7-8=-3353/0, TOP CHORD

8-9=-2550/0, 9-10=-2550/0, 10-12=-1084/0, 12-13=0/1342, 13-14=0/1342,

14-15=-539/378, 15-16=-539/378, 16-17=-539/378

BOT CHORD 29-30=0/1100, 28-29=0/2536, 27-28=0/3294, 26-27=0/3353, 24-26=0/3031, 23-24=0/1932,

21-22=-838/124, 20-21=-378/539, 19-20=-96/387

2-30=-1378/0, 2-29=0/952, 3-29=-917/0, 3-28=0/589, 12-22=-1594/0, 12-23=0/1193,

10-23=-1131/0, 17-19=-485/120, 17-20=-360/195, 14-22=-835/0, 10-24=0/817, 5-28=-379/0, 8-24=-644/0, 5-27=-219/410, 8-26=0/790, 7-26=-476/0, 14-21=0/875,

15-21=-421/0

NOTES-

WEBS

REACTIONS.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 19.
- 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.



April 13,2023



Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Liberty Meadows/Harnett
J0823-4325	E2	Eleor	5	1	157763307
30023-4325	F2	Floor	5	'	Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 12:06:24 2023 Page 1 ID:hxY3pmLvDCe?dFTuxKh62hywwcV-lak32RiKk6CNc6s96J1FVqjhLuh__2rF6XjSe3zR85j

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



2-5-0

Scale = 1:29.0

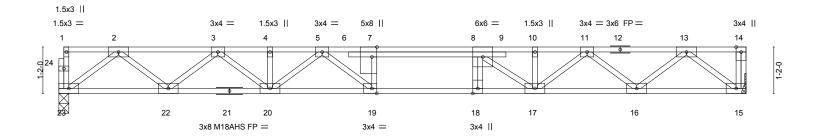


Plate Offsets (X,Y)--[7:0-3-0,Edge], [19:0-1-8,Edge] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. (loc) I/defl L/d 244/190 TCLL 40.0 Plate Grip DOL 1.00 TC 0.53 Vert(LL) -0.25 19 >826 480 MT20 TCDL 10.0 Lumber DOL 1.00 ВС 0.76 Vert(CT) -0.34 19 >600 360 M18AHS 186/179 BCLL 0.0 Rep Stress Incr YES WB 0.49 0.06 15 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 20%F. 11%E **BCDL** 5.0 Weight: 94 lb Matrix-S

LUMBER-**BRACING-**

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

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

REACTIONS. (size) 23=0-3-0, 15=Mechanical Max Grav 23=931(LC 1), 15=937(LC 1)

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

2-3=-1960/0, 3-4=-3249/0, 4-5=-3249/0, 5-7=-3924/0, 7-8=-3924/0, 8-10=-3215/0, TOP CHORD

10-11=-3205/0, 11-13=-1964/0

BOT CHORD 22-23=0/1168, 20-22=0/2719, 19-20=0/3589, 18-19=0/3924, 17-18=0/3924, 16-17=0/2724,

15-16=0/1167

2-23=-1463/0, 2-22=0/1030, 3-22=-989/0, 3-20=0/676, 5-20=-435/0, 5-19=0/755, WFBS

7-19=-419/0, 13-15=-1464/0, 13-16=0/1037, 11-16=-990/0, 11-17=0/614, 10-17=-57/264,

NOTES-

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



April 13,2023

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 Precision/Lot 35 Liberty Meadows/Harnett 157763308 Floor J0823-4325 F3 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 12:06:25 2023 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

ID:hxY3pmLvDCe?dFTuxKh62hywwcV-mmIRGniyVQKDEGRLg1YU12FmRIzbjRUPLBS?BVzR85i

Structural wood sheathing directly applied or 3-8-11 oc purlins,

0-1-8 1-3-0 HF

2-5-0

Scale = 1:29.0

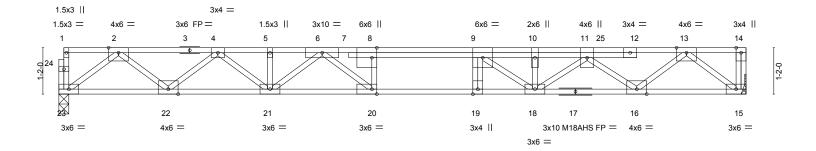


Plate Offsets (X,Y)--[8:0-3-0,Edge], [20:0-1-8,Edge] LOADING (psf) SPACING-CSI. DEFL. (loc) I/def L/d **PLATES GRIP** TCLL 40.0 Plate Grip DOL 1.00 TC 0.96 Vert(LL) -0.27 19-20 >761 480 MT20 244/190 TCDL 10.0 Lumber DOL 1.00 ВС 0.99 Vert(CT) -0.37 19-20 >547 360 M18AHS 186/179 **BCLL** 0.0 Rep Stress Incr NO WB 0.72 0.08 Horz(CT) 15 n/a n/a Code IRC2015/TPI2014 Weight: 98 lb FT = 20%F, 11%E **BCDL** 5.0 Matrix-S

LUMBER-**BRACING-**

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

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

REACTIONS. (size) 23=0-3-0, 15=Mechanical Max Grav 23=1009(LC 1), 15=1242(LC 1)

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

TOP CHORD 2-4=-2156/0, 4-5=-3636/0, 5-6=-3636/0, 6-8=-4658/0, 8-9=-4651/0, 9-10=-4375/0,

10-11=-4375/0, 11-13=-2753/0

BOT CHORD 22-23=0/1271, 21-22=0/3006, 20-21=0/4062, 19-20=0/4651, 18-19=0/4651, 16-18=0/3943,

15-16=0/1562

WFBS 2-23=-1593/0, 2-22=0/1152, 4-22=-1106/0, 4-21=0/804, 6-21=-545/0, 6-20=0/1067,

8-20=-590/0, 13-15=-1960/0, 13-16=0/1522, 11-16=-1538/0, 11-18=0/539,

9-18=-582/188

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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 463 lb down at 13-8-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 15-23=-10. 1-14=-100 Concentrated Loads (lb) Vert: 25=-383(B)



April 13,2023



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Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Liberty Meadows/Harnett
J0823-4325	E4	Elear	1	1	157763309
30023-4325		Floor	'	'	Job Reference (optional)

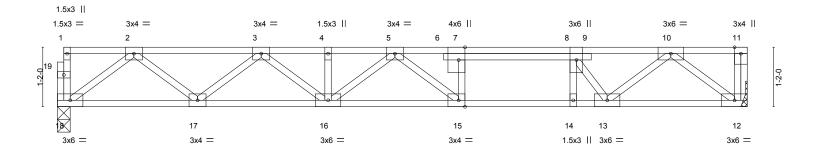
Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 12:06:26 2023 Page 1 ID:hxY3pmLvDCe?dFTuxKh62hywwcV-EzspT7jaFkS4rP0XEk3jaFoyliMVSypYarCZjxzR85h



2-0-12 0-7-4

Scale = 1:22.6



						13-6-8					
Plate Offs	sets (X,Y)	[7:0-3-0,Edge], [15:0-1-8,E	Edge]								
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	-0.17 15-16	>929	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	ВС	0.82	Vert(CT)	-0.24 15-16	>675	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03 12	n/a	n/a		
BCDL	5.0	Code IRC2015/TP	12014	Matrix	k-S					Weight: 73 lb	FT = 20%F, 11%E

BRACING-

13-6-8

LUMBER-

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

TOP CHORD Structural wood sheathing directly applied or 4-6-8 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 18=0-3-0, 12=Mechanical Max Grav 18=725(LC 1), 12=731(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1440/0, 3-4=-2227/0, 4-5=-2227/0, 5-7=-2080/0, 7-8=-2080/0, 8-10=-1581/0

BOT CHORD 17-18=0/895, 16-17=0/1963, 15-16=0/2338, 14-15=0/2080, 13-14=0/2080, 12-13=0/821 2-18=-1120/0, 2-17=0/710, 3-17=-680/0, 3-16=0/338, 5-15=-457/131, 8-14=0/269, WEBS

10-12=-1030/0, 10-13=0/971, 8-13=-912/0

NOTES-

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





Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Liberty Meadows/Harnett
10000 4005		Floor	,	_	157763310
J0823-4325	F5	Floor	4	1	Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

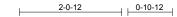
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 12:06:27 2023 Page 1 ID:hxY3pmLvDCe?dFTuxKh62hywwcV-i9QChTkC01axTZbkoSay6TL806i4BQPipVx6FOzR85g

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

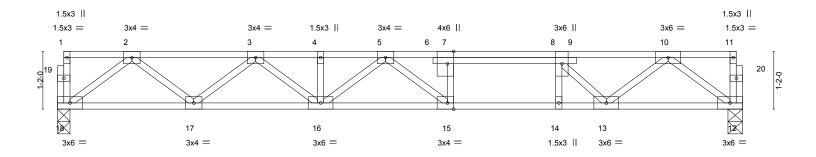
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.





0₇1₇8 Scale = 1:23.3



13-10-0 13-10-0											
Plate Offsets (X,Y) [7:0-3-0,Edge], [15:0-1-8,Edge]											
LOADING	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	0.82	Vert(LL)	-0.18 15-16	>915	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.24 15-16	>667	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.03 12	n/a	n/a		
BCDL	5.0	Code IRC2015/TI	PI2014	Matri	x-S					Weight: 74 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 18=0-3-0, 12=0-3-8 Max Grav 18=741(LC 1), 12=741(LC 1)

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

TOP CHORD 2-3=-1480/0, 3-4=-2306/0, 4-5=-2306/0, 5-7=-2216/0, 7-8=-2216/0, 8-10=-1571/0 BOT CHORD 17-18=0/916, 16-17=0/2021, 15-16=0/2436, 14-15=0/2216, 13-14=0/2216, 12-13=0/848 WEBS 2-18=-1147/0, 2-17=0/735, 3-17=-704/0, 3-16=0/364, 5-15=-438/177, 10-12=-1058/0,

10-13=0/926, 8-13=-938/0

NOTES-

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





Job Truss Truss Type Qty Ply Precision/Lot 35 Liberty Meadows/Harnett 157763311 2 J0823-4325 F6 Floor Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 12:06:28 2023 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

ID:hxY3pmLvDCe?dFTuxKh62hywwcV-AL_auplqnLio5j9wL95BfgtSuW7GwwJr19hfnqzR85f

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

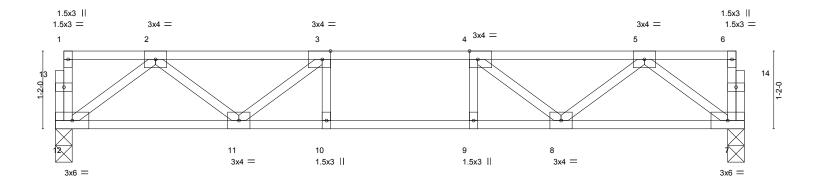
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0-1-8 1-3-0

2-1-0

0₇1₇8 Scale = 1:17.3



10-4-0 Plate Offsets (X,Y)--[3:0-1-8,Edge], [4:0-1-8,Edge] SPACING-DEFL. **PLATES GRIP** LOADING (psf) CSI. in (loc) I/defl L/d TCLL 40.0 Plate Grip DOL 1.00 TC 0.24 Vert(LL) -0.06 10-11 >999 480 MT20 244/190 **TCDL** 10.0 Lumber DOL 1.00 ВС 0.42 Vert(CT) -0.07 10 >999 360 BCLL 0.0 Rep Stress Incr YES WB 0.21 Horz(CT) 0.01 n/a n/a Code IRC2015/TPI2014 FT = 20%F, 11%E **BCDL** 5.0 Matrix-S Weight: 52 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 12=0-3-0, 7=0-3-0 Max Grav 12=548(LC 1), 7=548(LC 1)

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

TOP CHORD 2-3=-999/0, 3-4=-1319/0, 4-5=-999/0

BOT CHORD 11-12=0/666, 10-11=0/1319, 9-10=0/1319, 8-9=0/1319, 7-8=0/666 2-12=-833/0, 2-11=0/434, 3-11=-449/0, 5-7=-833/0, 5-8=0/434, 4-8=-449/0 WEBS

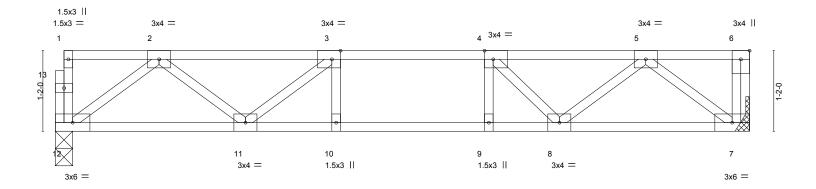
NOTES-

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





Job	Truss	Truss Type	Qty	Ply	Precision/Lot 35 Liberty Meadows/Harnett	
					157	7763312
J0823-4325	F7	Floor	4	1		
					Job Reference (optional)	
Comtech, Inc, Fayettev	/ille, NC - 28314,			8.430 s Jar	n 6 2022 MiTek Industries, Inc. Thu Apr 13 12:06:29 2023 Page	ge 1
			ID:hxY3pmLvDC	e?dFTuxKl	h62hywwcV-fXYy69lSYfqfjtk6vtdQCuQczvT3fNW?GpQDKGzR	₹85e
0-1-8						
H H 1-3-0	—	<u> </u>	2-1-0		0-11-8	
1 1 1	'	· ·			' Scale	e = 1:16.7



				10-0-8	1
Plate Off	sets (X,Y)	[3:0-1-8,Edge], [4:0-1-8,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 0.28	Vert(LL) -0.06 10-11 >999 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.44	Vert(CT) -0.07 10 >999 360	
BCLL	0.0	Rep Stress Incr YES	WB 0.21	Horz(CT) 0.01 7 n/a n/a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 51 lb FT = 20%F, 11%E

TOP CHORD

10-0-8

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat)

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

REACTIONS. (size) 12=0-3-0, 7=Mechanical Max Grav 12=532(LC 1), 7=539(LC 1)

FORCES. (ib) - Max. Comp./Max. Ten. - All forces 250 (ib) or less except when shown. TOP CHORD 2-3=-959/0, 3-4=-1240/0, 4-5=-971/0

BOT CHORD 11-12=0/648, 10-11=0/1240, 9-10=0/1240, 8-9=0/1240, 7-8=0/633 $2-12=-811/0,\ 2-11=0/405,\ 3-11=-402/0,\ 5-7=-794/0,\ 5-8=0/440,\ 4-8=-432/0$ **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.



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



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Job Truss Truss Type Qty Precision/Lot 35 Liberty Meadows/Harnett 157763313 J0823-4325 F8 FLOOR GIRDER Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 12:06:30 2023 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:hxY3pmLvDCe?dFTuxKh62hywwcV-7k6KJUm4JyyWK1JJTa8fk5zqrJttOrT8VTAmsizR85d 3x6 || 3x6 II 8-0-0 3 Scale = 1:8.6 3x4 =

3-3-8

1.5x3 ||

6 1.5x3 II

Plate Off	sets (X,Y)	[4:0-3-0,Edge], [9:0-1-8,0)-0-8]									
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)	-0.00	` <i>7</i>	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.15	Vert(CT)	-0.01	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code IRC2015/Ti	PI2014	Matri	x-S						Weight: 26 lb	FT = 20%F, 11%E

TOP CHORD

BOT CHORD

LUMBER-BRACING-

3x6 =

8

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 8=Mechanical, 5=0-3-8 Max Grav 8=500(LC 1), 5=459(LC 1)

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

TOP CHORD 2-3=-578/0

BOT CHORD 7-8=0/578, 6-7=0/578, 5-6=0/578

2-8=-700/0, 3-5=-695/0 WEBS

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center. 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
- Strongbacks to be attached to walls at their outer ends or restrained by other means. 5) CAUTION, Do not erect truss backwards. 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 676 lb down at 1-10-4 on top
- chord. The design/selection of such connection device(s) is the responsibility of others. 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 5-8=-10, 1-4=-100 Concentrated Loads (lb) Vert: 2=-631(B)



3x6 =

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

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

except end verticals.

April 13,2023

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 Precision/Lot 35 Liberty Meadows/Harnett 157763314 J0823-4325 F9 FLOOR GIRDER Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 13 12:06:31 2023 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

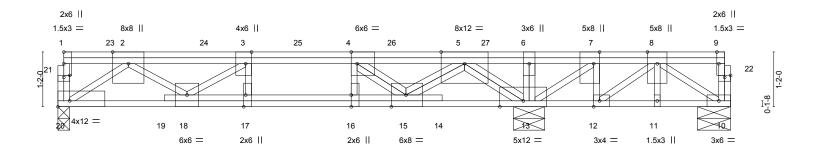
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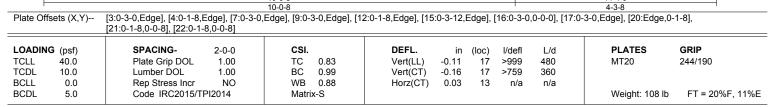






0₁1₈ Scale = 1:24.6





LUMBER-**BRACING-**

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

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

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

REACTIONS. (size) 20=0-3-0, 10=0-8-8, 13=0-8-0

Max Uplift 10=-284(LC 3)

Max Grav 20=2267(LC 3), 13=4757(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-4197/0, 3-4=-5207/0, 4-5=-2819/0, 5-6=0/3050, 6-7=0/3050, 7-8=0/982

BOT CHORD 18-20=0/3051, 17-18=0/5207, 16-17=0/5207, 15-16=0/5207, 13-15=0/567, 12-13=-982/0, 11-12=-416/0. 10-11=-416/0

2-20=-3737/0, 2-18=0/1421, 3-18=-1232/0, 3-17=-324/0, 4-16=0/511, 5-13=-4392/0,

5-15=0/2826, 4-15=-3093/0, 8-10=0/503, 7-13=-2592/0, 7-12=0/431, 6-13=-707/0,

8-12=-763/0

WEBS

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 284 lb uplift at joint 10.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 917 lb down at 1-2-4, 917 lb down at 3-2-4, 917 lb down at 5-2-4, 917 lb down at 7-2-4, and 911 lb down at 9-2-4, and 1222 lb down at 11-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 10-20=-10, 1-9=-100

Concentrated Loads (lb)

Vert: 7=-1142(B) 23=-837(B) 24=-837(B) 25=-837(B) 26=-837(B) 27=-837(B)

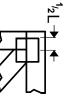


April 13,2023

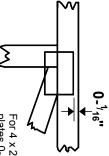


Symbols

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

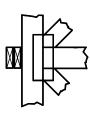
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

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



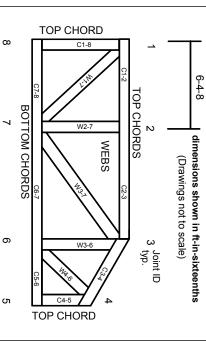
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

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.
- 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



Date: 8/12/2023 Input by: Neal Baggett

Job Name: 35 LIBERTY MEADOWS

Page 1 of 6

Wind

0

0

Const

0

0

Snow

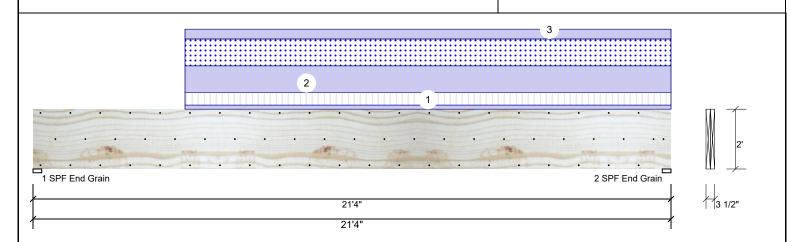
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Project #:

2-Ply - PASSED **Kerto-S LVL** 1.750" X 24.000" BM₂

Level: Level



Member Information Reactions UNPATTERNED Ib (Uplift) Application: Type: Floor Brg Direction Live Dead Plies: 2 Design Method: ASD 935 3274 Vertical 1 Moisture Condition: Dry **Building Code: IBC/IRC 2015** 2 Vertical 1535 5249 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. D+0.75(L+S) 1 - SPF 3.500" Vert 3274 / 2223 5497 L End Grain 5249 / 3651 D+0.75(L+S) 2 - SPF 3.500" Vert 8901 L End Grain

Analysis Results

Ana	lysis	Actual	Location	Allowed	Capacity	Comb.	Case
Mon	nent	43078 ft-lb	11'2 11/16"	84163 ft-lb	0.512 (51%)	D+0.75(L+S)	L
Unb	raced	43078 ft-lb	11'2 11/16"	43441 ft-lb	0.992 (99%)	D+0.75(L+S)	L
She	ar	6921 lb	19' 1/2"	20608 lb	0.336 (34%)	D+0.75(L+S)	L
	efl inch	0.192 (L/1303)	10'10 13/16"	0.522 (L/480)	0.368 (37%)	0.75(L+S)	L
TL [Defl inch	0.470 (L/534)	10'10 11/16"	0.697 (L/360)	0.675 (67%)	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 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 4' 1/2" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width

o Lateral significant pased off 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	5-1-0 to 21-4-0		Near Face	50 PLF	152 PLF	0 PLF	0 PLF	0 PLF	F1	
2	Part. Uniform	5-1-0 to 21-4-0		Тор	330 PLF	0 PLF	330 PLF	0 PLF	0 PLF	ATRUSSES	
3	Part. Uniform	5-1-0 to 21-4-0		Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL	
	Self Weight				19 PLF						

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

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

Handling & Installation

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

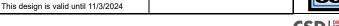
6. For flat roofs provide proper drainage to prevent ponding

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

Manufacturer Info

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





isDesign

Client: Project: Address: Date: 8/12/2023

Input by: Neal Baggett Job Name: 35 LIBERTY MEADOWS Page 2 of 6

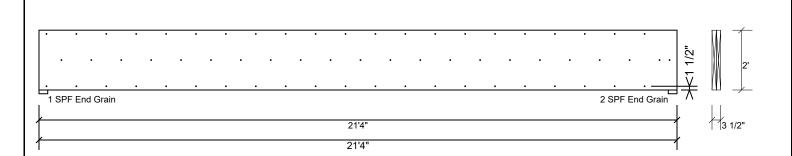
Project #:

Kerto-S LVL BM₂

1.750" X 24.000"

2-Ply - PASSED

Level: Level



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".

		`	,
Capacity	41.1 %		
Load	101.0 PLF		
Yield Limit per Foot	245.6 PLF		
Yield Limit per Fastener	81.9 lb.		
Yield Mode	IV		
Edge Distance	1 1/2"		
Min. End Distance	3"		
Load Combination	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. IVI beams must not be cut or drilled

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

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

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

For flat roofs provide proper drainage to prevent ponding

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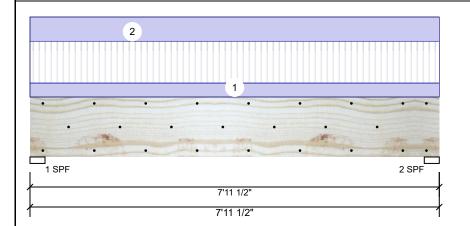
Date: 8/12/2023 Input by: Neal Baggett

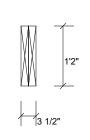
Job Name: 35 LIBERTY MEADOWS

Project #:

1.750" X 14.000" 2-Ply - PASSED **Kerto-S LVL** BM₁

Level: Level





Page 3 of 6

Member Information

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

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

Reactions UNPATTERNED Ib (Uplift) Snow Wind Brg Direction Live Dead Const 824 795 0 Vertical n 0 1 2 Vertical 824 795 0 0 0

Bearings

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. D+L 1 - SPF 3.500" Vert 31% 795 / 824 1619 L 2 - SPF 3.500" Vert 31% 795 / 824 1619 L D+I

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2861 ft-lb	3'11 3/4"	26999 ft-lb	0.106 (11%)	D+L	L
Unbraced	2861 ft-lb	3'11 3/4"	13588 ft-lb	0.211 (21%)	D+L	L
Shear	1360 lb	6'6"	10453 lb	0.130 (13%)	D+L	L
LL Defl inch	0.013 (L/7127)	3'11 13/16"	0.188 (L/480)	0.067 (7%)	L	L
TL Defl inch	0.025 (L/3626)	3'11 13/16"	0.250 (L/360)	0.099 (10%)	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 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.

		p.,								
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	69 PLF	207 PLF	0 PLF	0 PLF	0 PLF	F7
2	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
	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
 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

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Manufacturer Info

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



Date: 8/12/2023

Input by: Neal Baggett

Job Name: 35 LIBERTY MEADOWS

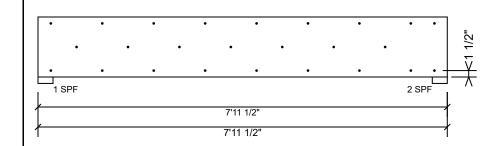
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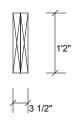
Kerto-S LVL BM₁

1.750" X 14.000"

2-Ply - PASSED

Level: Level





Page 4 of 6

Multi-Ply Analysis

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

rasterrain pries asing 5 row	is of roa box mans (. 120x3) at
Capacity	56.2 %
Load	138.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	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

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

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Date: 8/12/2023

Input by: Neal Baggett Job Name: 35 LIBERTY MEADOWS Page 5 of 6

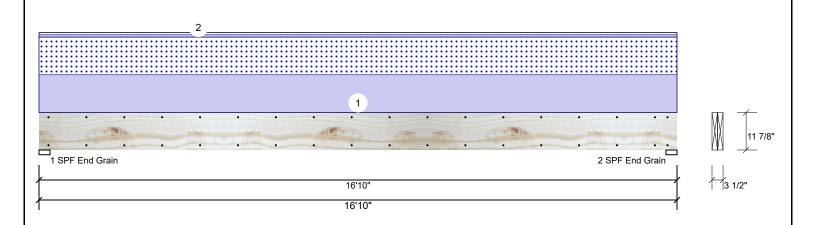
Project #:

Kerto-S LVL GDH

Member Information

1.750" X 11.875" 2-Ply - PASSED

Level: Level



Application: Type: Floor Plies: 2 Design Method: ASD Moisture Condition: Dry **Building Code: IBC/IRC 2015** Deflection LL: 360 Load Sharing: No Deflection TL: 240 **Header Supports** No Glass: Importance: Normal - II Deck: Not Checked Temperature: Temp <= 100°F

Reactions UNPATTERNED Ib (Uplift) Live Wind Brg Direction Dead Snow Const 0 1551 0 Vertical 1473 0 1 2 Vertical 0 1551 1473 0 0

Analysis Re	Analysis Results							
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case		
Moment	12041 ft-lb	8'5"	22897 ft-lb	0.526 (53%)	D+S	L		
Unbraced	12041 ft-lb	8'5"	22897 ft-lb	0.526 (53%)	D+S	L		
Shear	2572 lb	1'3 3/8"	10197 lb	0.252 (25%)	D+S	L		
LL Defl inch	0.306 (L/642)	8'5 1/16"	0.546 (L/360)	0.561 (56%)	S	L		
TL Defl inch	0.628 (L/313)	8'5 1/16"	0.819 (L/240)	0.767 (77%)	D+S	L		

Bearings Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" D+S Vert 1551 / 1473 3024 L End Grain 1551 / 1473 3024 L D+S 2 - SPF 3.500" Vert End Grain

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be continuously laterally braced.
- 7 Bottom must be laterally braced at 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	165 PLF	0 PLF	165 PLF	0 PLF	0 PLF	C1-GE
2	Tie-In	0-0-0 to 16-10-0	0-6-0	Тор	20 PSF	0 PSF	20 PSF	0 PSF	0 PSF	RAKE OH
	Self Weight				9 PLF					

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

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

 Damaged Beams must not be used

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

This design is valid until 11/3/2024

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isDesign

Client: Project: Address:

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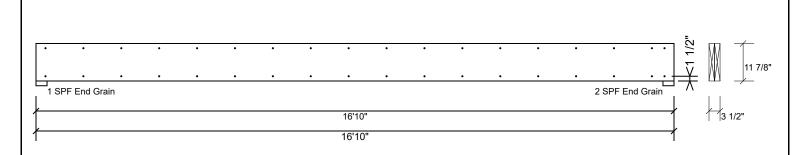
Job Name: 35 LIBERTY MEADOWS

Page 6 of 6

Project #:

1.750" X 11.875" 2-Ply - PASSED **Kerto-S LVL GDH**

Level: Level



Multi-Ply Analysis

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

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

Notes

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

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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

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

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

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

For flat roofs provide proper drainage to prevent ponding

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

Manufacturer Info

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



This design is valid until 11/3/2024