

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise - Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

> All Headers Are Considered 2X10 Beams Unless Otherwise Noted

> All Walls Shown Are Considered Load Bearing

Roof Area = 4255.72 sq.ft. Ridge Line = 115.15 ft. Hip Line = 0.35 ft. Horiz. OH = 293.22 ft.Raked OH = 315.19 ft. Decking = 146 sheets

Dimension Notes 1. All exterior wall to wall dimensions are to face of stud unless noted otherwise 2. All interior wall dimensions are to face of stud unless noted otherwise All exterior wall to truss dimensions are to face of stud unless noted otherwise

Hatch Legend Second Floor Walls Box Storage Drop Beam Flush Beam

	Conne	Nail Information				
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS26	USP	6	NA	16d/3-1/2"	16d/3-1/2"

		Products		
PlotID	Length	Product	Plies	Net Qty
BM1	14' 0"	1-3/4"x 14" LVL Kerto-S	2	2
BM2	16' 0"	1-3/4"x 14" LVL Kerto-S	2	2
BM3	14' 0"	1-3/4"x 14" LVL Kerto-S	2	2
BM4	4' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2
BM5	13' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2
BM6	8' 0"	2x12 SPF No.1	2	4
GDH	22' 0"	1-3/4"x 18" LVL Kerto-S	3	3
GDH2	13' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2

Truss Placement Plan

▲= Denotes Left End of Truss (Reference Engineered Truss Drawing)

соттесн **ROOF & FLOOR TRUSSES & BEAMS**

Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

A registered design professional shall be to design the support system for any that exceeds those specified in the attact

Jonathan Landry

Jonathan Landry

LOAD CHART FOR JACK STUDS (BASED ON TABLES R502.5(1) & (b)) NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER 2550 1 3400 1

1700 1 3400 2 6800 2 5100 2 5100 3 7650 3 10200 3 6800 4 13600 4 10200 4 8500 5 12750 5 17000 5 10200 6 15300 6 11900 7 13600 8 15300 9

Fuquay Varina / Harı Jonathan Landry 11/02/23 169 SALES REP. DRAWN BY DATE REV. CITY / CO.

Place Glover Design Build Z/A

JOB NAME SEAL DATE BUILDER QUOTE THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com



Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0923-5485 Lot 44 Purfoy Place

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

Pages or sheets covered by this seal: I61794713 thru I61794744

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

North Carolina COA: C-0844



November 3,2023

Gilbert, Eric

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

Job Truss Truss Type Qty Ply Lot 44 Purfoy Place 161794713 J0923-5485 Α1 **ROOF SPECIAL** Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:18:39 2023 Page 1 ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-0₋10₋8 0-10-8 28-4-0 38-8-0 8-0-0 8-4-0 6-0-0 6-0-0 10-4-0

> Scale = 1:87.9 5x8 =

> > Structural wood sheathing directly applied or 5-0-14 oc purlins.

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

1 Brace at Jt(s): 18

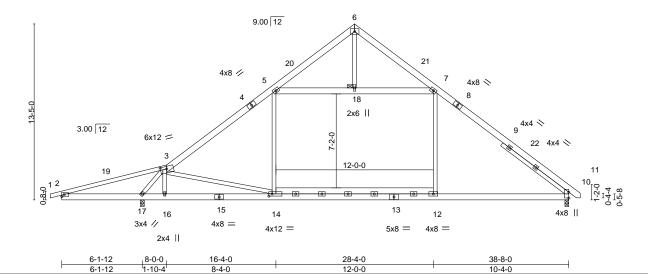


Plate Off	fsets (X,Y)	[3:0-5-12,0-2-4], [14:0-3-0,	,0-2-0]								
LOADIN	G (ncf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	in (loc) 0.63 10-12	>619	240	MT20	244/190
		Lumber DOL				/				IVITZU	244/190
TCDL	10.0		1.15	BC	0.73	Vert(CT)	-0.49 10-12	>796	240		
BCLL	0.0 *	Rep Stress Incr	YES	1	0.97	Horz(CT)	0.04 10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI	2014	Matri	x-S					Weight: 312 lb	FT = 20%

BRACING-

JOINTS

TOP CHORD

BOT CHORD

LUMBER-

BOT CHORD

WEBS

2x6 SP No.1 *Except* TOP CHORD

1-3: 2x4 SP No.1 2x6 SP No.1 2x4 SP No.2 *Except*

5-7: 2x6 SP No.1 Right 2x4 SP No.2 6-4-5 SLIDER

REACTIONS. (size) 17=0-3-8, 10=0-3-8

Max Horz 17=413(LC 9)

Max Uplift 17=-361(LC 12), 10=-225(LC 13) Max Grav 17=1928(LC 2), 10=1506(LC 20)

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

TOP CHORD $2-3=-1238/1054,\ 3-5=-1918/462,\ 5-6=-435/217,\ 6-7=-440/203,\ 7-10=-2053/483$

BOT CHORD $2-17 = -957/1246,\ 16-17 = -361/1361,\ 14-16 = -348/1355,\ 12-14 = -132/1515,\ 10-12 = -124/1514$

WEBS 3-17=-2130/827, 3-16=-431/515, 3-14=-772/927, 5-14=0/534, 7-12=-16/656,

5-18=-1364/548, 7-18=-1364/548

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 22-4-0, Exterior(2) 22-4-0 to 26-8-13, Interior(1) 26-8-13 to 39-4-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 4x6 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=361, 10=225.



November 3,2023



Job Truss Truss Type Qty Lot 44 Purfoy Place 161794714 J0923-5485 A1SG **GABLE** Job Reference (optional)

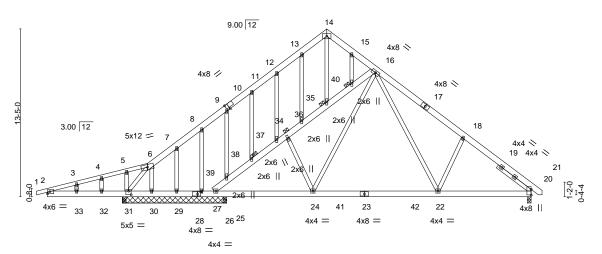
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:18:41 2023 Page 1 ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

8-0-0 26-2-11 38-8-0 39-6₁8 -0-10-8 0-10-8 8-0-0 14-4-0 3-10-11 7-0-0 5-5-5

> Scale = 1:92.1 5x8 =

> > Structural wood sheathing directly applied or 5-10-1 oc purlins.



			0-0-0	10-0-01	14-4-0		2-11		31-2-11		30-0	1-0		
			6-0-0	2-0-0	6-4-0	6-1	0-11		10-0-0		7-5	-5		
Plate Offse	ets (X,Y)	[10:0-2-13,Ec	dge], [28:0-3	3-0,0-2-0], [31	:0-2-8,0-3-8]									
LOADING	(psf)	SPAC	ING-	2-0-0	CSI.		DEF	L.	in (loc)	l/defl	L/d	PLATES		GRIP
TCLL	20.0	Plate 0	Grip DOL	1.15	TC	0.30	Vert	LL) -0	17 22-24	>999	360	MT20		244/190
TCDL	10.0	Lumbe	er DOL	1.15	BC	0.45	Vert	CT) -0	24 22-24	>999	240			
BCLL	0.0 *	Rep St	tress Incr	YES	WB	0.73	Horz	(CŤ) 0	02 20	n/a	n/a			
BCDL	10.0	Code	IRC2015/TI	PI2014	Matri	x-S	Wind	i(LL) 0	03 22-24	>999	240	Weight: 3	354 lb	FT = 20%

LUMBER-BRACING-

2x6 SP No.1 *Except* TOP CHORD TOP CHORD 1-6: 2x4 SP No.1 **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc bracing, Except: **BOT CHORD** 2x6 SP No.1 6-0-0 oc bracing: 2-33,32-33,31-32.

WEBS 2x4 SP No.2 *Except* **JOINTS** 1 Brace at Jt(s): 34, 35, 38, 40 16-26: 2x6 SP No.1

2x4 SP No.2 **OTHERS** SLIDER Right 2x4 SP No.2 3-4-1

REACTIONS. All bearings 0-3-8 except (jt=length) 26=8-4-0, 27=8-4-0, 29=8-4-0, 30=8-4-0.

Max Horz 31=526(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 25 except 20=-335(LC 13),

26=-609(LC 12), 27=-211(LC 12), 29=-149(LC 12), 30=-995(LC 1), 31=-1461(LC

Max Grav All reactions 250 lb or less at joint(s) 27, 29 except 20=1187(LC 20),

26=943(LC 19), 30=952(LC 8), 31=1780(LC 1), 31=1780(LC 1), 25=340(LC 3)

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

TOP CHORD 2-3=-1124/825, 3-4=-1057/807, 4-5=-1032/816, 5-6=-961/787, 6-7=-605/365,

7-8=-512/293, 8-9=-349/173, 9-11=-277/51, 16-18=-1427/594, 18-20=-1522/452

BOT CHORD 2-33=-765/1085, 32-33=-765/1085, 31-32=-765/1085, 30-31=-448/657, 29-30=-437/663,

27-29=-437/663, 26-27=-437/663, 25-26=-173/1180, 24-25=-173/1180, 22-24=0/808,

20-22=-206/1063

26-39=-1673/1018, 38-39=-1485/879, 37-38=-1442/847, 34-37=-1317/730, WFBS

34-36=-1375/789, 35-36=-1270/694, 35-40=-1304/715, 16-40=-1283/703, 16-22=-339/680,

18-22=-439/456, 16-24=-191/617, 24-34=-267/313, 9-39=-276/202, 6-30=-628/708,

5-31=-232/267, 6-31=-1297/1013

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left 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) 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) 25 except (jt=lb) 20=335, 26=609, 27=211, 29=149, 30=995, 31=1461



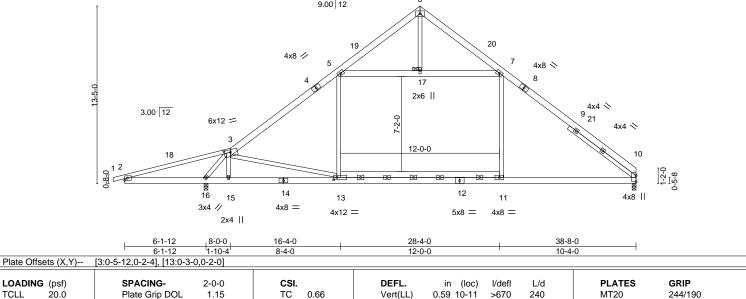
November 3,2023

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 Lot 44 Purfoy Place 161794715 J0923-5485 A2 **ROOF SPECIAL** 6 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:18:42 2023 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 28-4-0 38-8-0 -0₋10₋8 8-0-0 8-4-0 6-0-0 6-0-0 10-4-0 Scale = 1:87.1 5x8 = 6 9.00 12



Vert(CT)

Horz(CT)

BRACING-

JOINTS

TOP CHORD

BOT CHORD

-0.50 10-11

10

0.04

>791

1 Brace at Jt(s): 17

n/a

240

n/a

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

Weight: 309 lb

Structural wood sheathing directly applied or 4-10-11 oc purlins.

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

WEBS

LOADING (psf)

20.0

10.0

10.0

0.0

2x6 SP No.1 *Except* TOP CHORD

1-3: 2x4 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 *Except*

5-7: 2x6 SP No.1 Right 2x4 SP No.2 6-4-5 SLIDER

REACTIONS. (size) 16=0-3-8, 10=0-3-8

Max Horz 16=411(LC 9)

Max Uplift 16=-361(LC 12), 10=-208(LC 13) Max Grav 16=1928(LC 2), 10=1463(LC 20)

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 $2-3=-762/1054,\ 3-5=-1920/543,\ 5-6=-435/215,\ 6-7=-436/212,\ 7-10=-2025/553$

BOT CHORD 2-16=-957/788, 15-16=-359/1184, 13-15=-346/1182, 11-13=-176/1494, 10-11=-170/1494

1.15

YES

ВС

WB

Matrix-S

0.73

0.62

WEBS 3-16=-2139/804, 3-15=-432/426, 3-13=-492/928, 5-13=-3/534, 7-11=-15/643,

5-17=-1357/608, 7-17=-1357/608

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 22-4-0, Exterior(2) 22-4-0 to 26-8-13, Interior(1) 26-8-13 to 38-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 4x6 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=361, 10=208.



November 3,2023



Job Truss Truss Type Qty Ply Lot 44 Purfoy Place 161794716 J0923-5485 **A3 ROOF SPECIAL** 2 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:18:44 2023 Page 1 ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

10-4-0

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

3-15

Rigid ceiling directly applied or 5-8-0 oc bracing.

Weight: 314 lb

38-8-0 -0₋10₋8 0-10-8 16-4-0 1-6-0 28-4-0 8-0-0 6-10-0 6-0-0 6-0-0 6-0-0 4-4-0

> Scale = 1:87.7 5x8 =

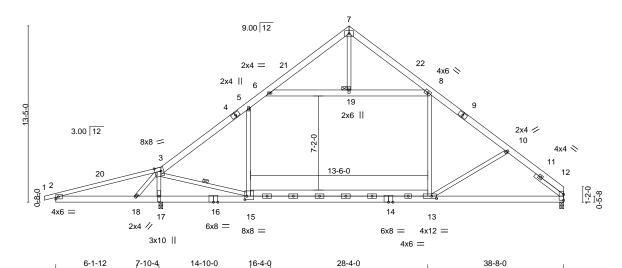


Plate Offsets (X,Y)--[3:0-5-8,Edge], [13:0-4-4,0-2-0], [15:0-1-12,0-3-4] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.67 Vert(LL) 0.41 12-13 >903 240 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.61 Vert(CT) -0.59 12-13 >625 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.56 Horz(CT) 0.02 12 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Wind(LL) 2 >130 120 FT = 20%

BRACING-

WEBS

JOINTS

TOP CHORD

BOT CHORD

12-0-0

0.72

1 Row at midpt

1 Brace at Jt(s): 19

1-6-0

LUMBER-

BOT CHORD

TOP CHORD 2x6 SP No.1 *Except*

1-3: 2x4 SP No.1 2x6 SP No.1 *Except*

12-14,14-16: 2x6 SP 2400F 2.0E

WEBS 2x4 SP No.2 *Except* 6-8: 2x6 SP No.1 SLIDER Right 2x4 SP No.2 2-8-8

REACTIONS. (size) 17=0-3-8, 12=0-3-8

Max Horz 17=411(LC 11)

Max Uplift 17=-383(LC 12), 12=-196(LC 13) Max Grav 17=2098(LC 2), 12=1365(LC 20)

6-1-12

¹1-8-8

6-11-12

Matrix-S

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

TOP CHORD $2-3=-1285/1119,\ 3-5=-1633/290,\ 5-6=-1295/452,\ 6-7=-473/281,\ 7-8=-373/243,$

8-10=-1673/391, 10-12=-1814/483

BOT CHORD 2-18=-1020/1291, 17-18=-1373/1766, 15-17=-1279/1675, 13-15=-52/1348,

12-13=-256/1311

WEBS 3-18=-700/654, 3-17=-2617/1698, 3-15=-1640/2379, 8-13=0/597, 6-19=-1075/317,

8-19=-1075/317, 10-13=-391/373, 5-15=-245/417

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 22-4-0, Exterior(2) 22-4-0 to 26-8-13, Interior(1) 26-8-13 to 38-8-0 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 4x8 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=383, 12=196,



November 3,2023



Job Truss Truss Type Qty Lot 44 Purfoy Place 161794717 J0923-5485 A4 **ROOF SPECIAL** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:18:45 2023 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

Structural wood sheathing directly applied or 4-6-9 oc purlins,

5-8

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

except end verticals.

1 Row at midpt

ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 13-10-8 8-0-0 5-10-8 4-7-0

Scale = 1:60.0

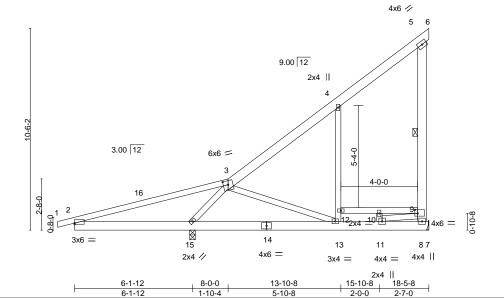


Plate Offsets (X,Y)	[2:0-0-0,0-0-11], [3:0-3-0,0-2-8], [9:0-1-12,0-2-4]

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 0.65	Vert(LL) -0.16 13-15 >910 240	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.25 13-15 >580 180	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.54	Horz(CT) 0.00 8 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 141 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

BOT CHORD

2x4 SP No.1 *Except* TOP CHORD

3-6: 2x6 SP No.1 2x6 SP No.1 *Except* 9-12: 2x4 SP No.1

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

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

Max Horz 15=429(LC 12)

Max Uplift 8=-216(LC 12), 15=-350(LC 8) Max Grav 8=930(LC 19), 15=1173(LC 1)

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

TOP CHORD 2-3=-1532/1023, 3-4=-375/142, 8-9=-782/264, 5-9=-309/150

BOT CHORD 2-15=-924/1527, 13-15=-198/444, 11-13=-127/467, 8-11=-598/208, 10-12=-344/92,

WEBS 3-15=-1150/859, 12-13=-262/349, 4-12=-231/355, 3-13=-478/251, 9-11=-356/1124

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 18-5-8 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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) 8=216, 15=350.



November 3,2023



Job Truss Truss Type Qty Lot 44 Purfoy Place 161794718 J0923-5485 A4GE **GABLE** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:18:46 2023 Page 1 Fayetteville, NC - 28314, Comtech, Inc.

ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 13-10-8 18-5-8 -0-10-8 0-10-8 8-0-0 5-10-8 4-7-0

> Scale = 1:57.4 4x6 //

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

5-8

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

except end verticals.

1 Row at midpt

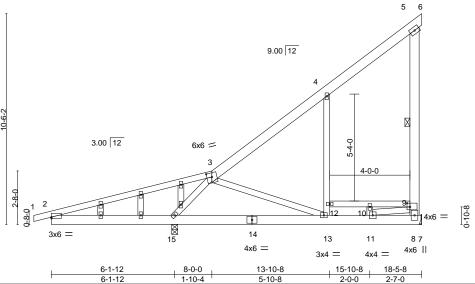


Plate Offsets (X,Y)-- [2:0-0-0,0-0-11], [3:0-3-0,0-2-8], [9:0-1-12,0-2-4]

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.21	13-15	>712	240	MT20	244/190
TCDL 1	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.29	13-15	>502	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.00	8	n/a	n/a		
BCDL 1	10.0	Code IRC2015/TP	PI2014	Matri	x-S						Weight: 145 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

BOT CHORD

TOP CHORD 2x4 SP No.1 *Except*

3-6: 2x6 SP No.1 2x6 SP No.1 *Except* 9-12: 2x4 SP No.1

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

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

Max Horz 15=617(LC 12)

Max Uplift 8=-380(LC 12), 15=-545(LC 8) Max Grav 8=974(LC 19), 15=1173(LC 1)

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

TOP CHORD 2-3=-1567/1023, 3-4=-414/142, 8-9=-833/435, 5-9=-309/232

BOT CHORD 2-15=-924/1568, 13-15=-258/507, 11-13=-214/504, 8-11=-647/338, 10-12=-371/155,

WEBS 3-15=-1150/937, 12-13=-262/386, 4-12=-231/391, 3-13=-449/251, 9-11=-586/1221

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=380, 15=545.



November 3,2023



Job Truss Truss Type Qty Ply Lot 44 Purfoy Place 161794719 J0923-5485 **B1 ATTIC** 2 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:18:47 2023 Page 1

ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 19-0-15 21-11-4 -0-10-8 0-10-8 8-8-4 3-9-13 3-3-7 3-3-7 2-10-5 9-7-12

> Scale = 1:83.4 6x8 =

> > Structural wood sheathing directly applied or 4-6-10 oc purlins.

5-7

Rigid ceiling directly applied or 9-4-10 oc bracing.

1 Row at midpt

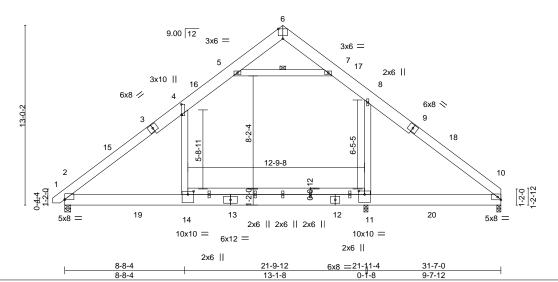


Plate Offset	IS (X, Y)	[2:0-0-0,0-0-2], [4:0-9-1,0-	0-4], [6:0-4-0,	Eagej, [11:0	<u>-5-0,0-3-0j, [</u>	14:0-5-0,0-2-12]					
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.24 11-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.41 11-14	>637	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03 10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI	2014	Matri	x-S	Wind(LL)	0.09 14	>999	240	Weight: 348 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

2x10 SP No.1 *Except* TOP CHORD 1-3,9-10: 2x8 SP No.1

BOT CHORD 2x10 SP No.1 *Except* 11-14: 2x6 SP No.1

WEBS 2x6 SP No.1

REACTIONS. (size) 2=0-5-4, 11=0-3-8, 10=0-3-8

Max Horz 2=292(LC 9) Max Uplift 11=-227(LC 8)

Max Grav 2=2013(LC 20), 11=881(LC 21), 10=1735(LC 20)

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

TOP CHORD 2-4=-2571/0, 4-5=-1747/121, 5-6=-17/513, 6-7=0/449, 7-8=-1785/148, 8-10=-2647/0 **BOT CHORD** 2-14=0/1945, 11-14=0/1945, 10-11=0/1945

4-14=0/1116, 8-11=-175/982, 5-7=-2452/180 **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) -0-7-5 to 3-9-8, Interior(1) 3-9-8 to 15-9-8, Exterior(2) 15-9-8 to 20-2-5, Interior(1) 20-2-5 to 31-5-4 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.
- * 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) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-14, 8-11
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-14
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=227.
- 8) Attic room checked for L/360 deflection



November 3,2023



Job Truss Truss Type Qty Ply Lot 44 Purfoy Place 161794720 J0923-5485 B1-GR **ATTIC** 2 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:18:50 2023 Page 1

ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 21-11-4 19-0-15 -0₋10₋8 0-10-8 8-8-4 3-9-13 3-3-7 3-3-7 2-10-5 9-7-12

> Scale = 1:83.4 6x8 =

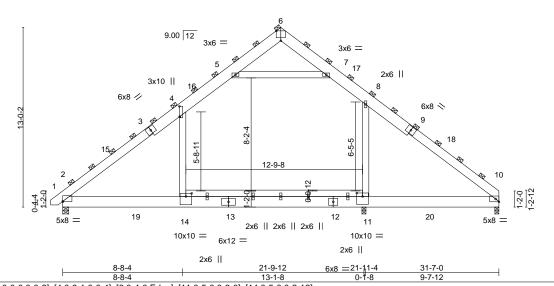


Plate Offsets (X,Y)-- [2:0-0-0,0-0-2], [4:0-9-1,0-0-4], [6:0-4-0,Edge], [11:0-5-0,0-3-0], [14:0-5-0,0-2-12]

LOADIN	G (psf)	SPACING-	6-0-0	CSI.		DEFL.	in (l	loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.24 11	-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.41 11	-14	>637	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI	I2014	Matri	x-S	Wind(LL)	0.09	14	>999	240	Weight: 1045 lb	FT = 20%

TOP CHORD

BOT CHORD

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

(Switched from sheeted: Spacing > 2-8-0).

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

LUMBER-**BRACING-**

TOP CHORD 2x10 SP No.1 *Except*

1-3,9-10: 2x8 SP No.1 **BOT CHORD** 2x10 SP No.1 *Except* 11-14: 2x6 SP No.1

WEBS 2x6 SP No.1

REACTIONS. (size) 2=0-5-4, 11=0-3-8, 10=0-3-8

Max Horz 2=876(LC 9) Max Uplift 11=-680(LC 8)

Max Grav 2=6038(LC 20), 11=2642(LC 21), 10=5205(LC 20)

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

TOP CHORD 2-4=-7714/0, 4-5=-5242/362, 5-6=-52/1539, 6-7=0/1348, 7-8=-5355/443, 8-10=-7942/0

BOT CHORD 2-14=0/5835, 11-14=0/5835, 10-11=0/5835 **WEBS** 4-14=0/3348, 8-11=-526/2945, 5-7=-7357/541

NOTES-

- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x8 2 rows staggered at 0-9-0 oc, 2x10 2 rows staggered at 0-9-0 oc.

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-5 to 3-9-8, Interior(1) 3-9-8 to 15-9-8, Exterior(2) 15-9-8 to 20-2-5, Interior(1) 20-2-5 to 31-5-4 zone; C-C for members and forces & MWFRS for reactions shown; 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.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-14, 8-11
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-14
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=680.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.



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Job Truss Truss Type Qty Ply Lot 44 Purfoy Place 161794721 J0923-5485 B1GE **GABLE** Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:18:49 2023 Page 1

ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 21-11-4 19-0-15 12-6-1 -0-10-8 0-10-8 8-8-4 3-9-13 3-3-7 3-3-7 2-10-5

> Scale = 1:79.3 8x8 =

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

5-7

Rigid ceiling directly applied or 9-4-10 oc bracing.

1 Row at midpt

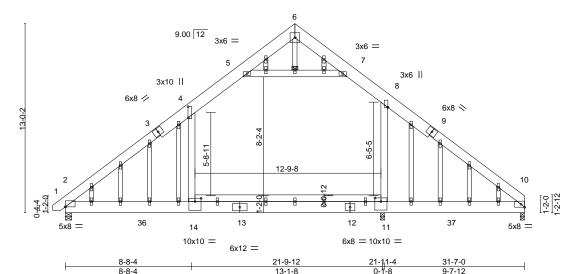


Plate Offsets	Plate Offsets (X,Y) [2:0-0-0,0-0-2], [4:0-9-1,0-0-4], [8:0-0-3,Edge], [11:0-5-0,0-3-0], [14:0-5-0,0-2-12]												
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL 2	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.24 11-14	>999	360	MT20	244/190		
TCDL 1	0.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.41 11-14	>637	240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03 10	n/a	n/a				
BCDL 1	0.0	Code IRC2015/Ti	PI2014	Matrix	(-S	Wind(LL)	0.13 14	>999	240	Weight: 393 lb	FT = 20%		

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

2x10 SP No.1 *Except* TOP CHORD

1-3,9-10: 2x8 SP No.1 **BOT CHORD** 2x10 SP No.1 *Except* 11-14: 2x6 SP No.1

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

REACTIONS. (size) 2=0-5-4, 11=0-3-8, 10=0-3-8

Max Horz 2=365(LC 9)

Max Uplift 2=-93(LC 12), 11=-315(LC 8), 10=-118(LC 12) Max Grav 2=2032(LC 20), 11=941(LC 21), 10=1765(LC 20)

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

TOP CHORD 2-4=-2586/0, 4-5=-1763/196, 5-6=-74/526, 6-7=-19/449, 7-8=-1809/251,

8-10=-2711/199

BOT CHORD 2-14=-25/2004, 11-14=-24/2004, 10-11=-24/2004 **WEBS** 4-14=0/1116, 8-11=-260/1001, 5-7=-2489/371

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 2x6 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) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-14, 8-11
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-14
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 11=315, 10=118.
- 11) Attic room checked for L/360 deflection.



November 3,2023



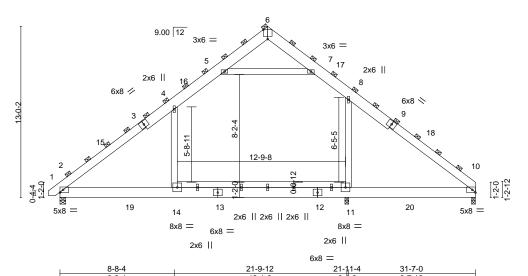
Job Truss Truss Type Qty Ply Lot 44 Purfoy Place 161794722 J0923-5485 B2-GR ATTIC Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:18:51 2023 Page 1

ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 12-6-1 19-0-15 21-11-4 -0-10-8 0-10-8 8-8-4 3-9-13 3-3-7 3-3-7 2-10-5 9-7-12

> Scale = 1:87.6 6x8 =



[6:0-4-0,Edge] Plate Offsets (X,Y)--LOADING (psf) SPACING-3-0-0 CSI DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.64 Vert(LL) -0.18 11-14 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.72 Vert(CT) -0.31 11-14 >849 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.24 Horz(CT) 0.02 10 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Wind(LL) >999 240 Weight: 697 lb FT = 20%Matrix-S 0.07 14

TOP CHORD

BOT CHORD

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

(Switched from sheeted: Spacing > 2-8-0).

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

LUMBER-BRACING-

2x10 SP No.1 *Except* TOP CHORD 1-3,9-10: 2x8 SP No.1

BOT CHORD 2x10 SP No.1 *Except* 11-14: 2x6 SP No.1 WEBS 2x6 SP No.1

REACTIONS. (size) 2=0-5-4, 11=0-3-8, 10=0-3-8

Max Horz 2=438(LC 9) Max Uplift 11=-340(LC 8)

Max Grav 2=3019(LC 20), 11=1321(LC 21), 10=2602(LC 20)

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

TOP CHORD 2-4=-3857/0, 4-5=-2621/181, 5-6=-26/770, 6-7=0/674, 7-8=-2678/221, 8-10=-3971/0 **BOT CHORD** 2-14=0/2917, 11-14=0/2918, 10-11=0/2917

WEBS 4-14=0/1674, 8-11=-263/1473, 5-7=-3678/270

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x8 2 rows staggered at 0-9-0 oc, 2x10 2 rows staggered at 0-9-0 oc.

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

- Webs connected as follows: 2x6 2 rows staggered at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-5 to 3-9-8, Interior(1) 3-9-8 to 15-9-8, Exterior(2) 15-9-8 to 20-2-5, Interior(1) 20-2-5 to 31-5-4 zone; C-C for members and forces & MWFRS for reactions shown; 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.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-14, 8-11
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-14
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11 = 340
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.



November 3,2023



Job Truss Truss Type Qty Lot 44 Purfoy Place 161794723 J0923-5485 C₁ COMMON 3 Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:18:53 2023 Page 1

Comtech, Inc, Fayetteville, NC - 28314, ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

19-4-0 25-6-8 0-10-8 5-4-0 5-4-0 0-10-8 7-0-0 7-0-0 5-4-0

> Scale = 1:61.9 5x5 =

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

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

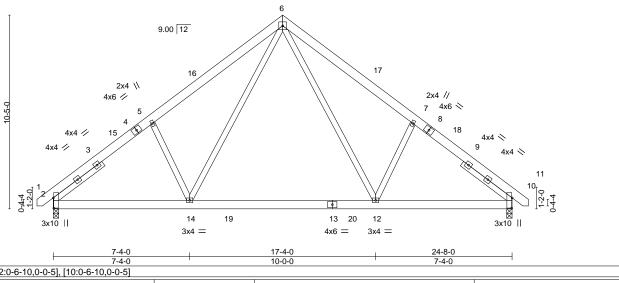


Plate Offsets (X,Y)-- [2:0-6-10,0-0-5], [10:0-6-10,0-0-5]

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 0.24	Vert(LL) -0.17 12-14 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0.24 12-14 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.51	Horz(CT) 0.02 10 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03 12-14 >999 240	Weight: 191 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SP No.2 3-4-1, Right 2x4 SP No.2 3-4-1

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=316(LC 9)

Max Uplift 2=-175(LC 12), 10=-175(LC 13) Max Grav 2=1098(LC 19), 10=1098(LC 20)

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

TOP CHORD 2-5=-1411/495, 5-6=-1426/621, 6-7=-1426/621, 7-10=-1411/495

BOT CHORD 2-14=-248/1221, 12-14=-23/785, 10-12=-244/1014 **WEBS** 6-12=-239/693, 7-12=-443/362, 6-14=-239/693, 5-14=-443/362

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-12 to 3-8-1, Interior(1) 3-8-1 to 12-4-0, Exterior(2) 12-4-0 to 16-8-13, Interior(1) 16-8-13 to 25-4-12 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.
- * 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) except (jt=lb) 2=175, 10=175.



November 3,2023



Job Truss Truss Type Qty Lot 44 Purfoy Place 161794724 J0923-5485 C1GE **GABLE** Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:18:55 2023 Page 1 ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-0-10-8 0-10-8 12-4-0 12-4-0

> Scale = 1:61.9 5x5 =

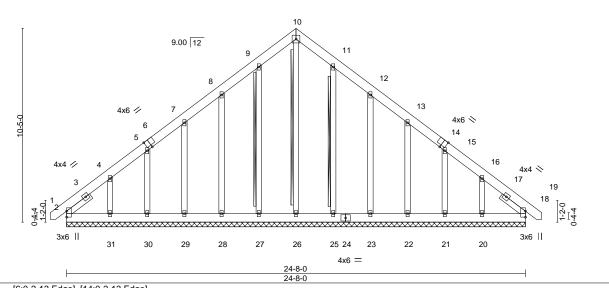


Plate Off	sets (X,Y)	[6:0-2-13,Eage], [14:0-2-	13,Eagej									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	18	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	18	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 229 lb	FT = 20%

LUMBER-

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

Left 2x4 SP No.2 1-7-8, Right 2x4 SP No.2 1-7-8 SLIDER

BRACING-

TOP CHORD **BOT CHORD WEBS**

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

Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 - 10-26, 9-27, 11-25

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 24-8-0.

Max Horz 2=394(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 18, 25 except 2=-152(LC 8),

27=-105(LC 12), 28=-163(LC 12), 29=-151(LC 12), 30=-114(LC 12), 31=-312(LC

12), 23=-167(LC 13), 22=-151(LC 13), 21=-118(LC 13), 20=-290(LC 13) Max Grav All reactions 250 lb or less at joint(s) 18, 27, 28, 29, 30, 25, 23, 22, 21

except 2=281(LC 20), 26=273(LC 13), 31=288(LC 19), 20=263(LC 20)

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

TOP CHORD 2-4=-423/309, 8-9=-252/291, 9-10=-311/338, 10-11=-311/338, 11-12=-252/262,

16-18=-342/195

BOT CHORD 2-31=-195/312, 30-31=-195/312, 29-30=-195/312, 28-29=-195/312, 27-28=-195/312,

26-27=-195/312, 25-26=-195/312, 23-25=-195/312, 22-23=-195/312, 21-22=-195/312,

20-21=-195/312, 18-20=-195/312

10-26=-254/182, 4-31=-283/304, 16-20=-283/285 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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, 25 except (jt=lb) 2=152, 27=105, 28=163, 29=151, 30=114, 31=312, 23=167, 22=151, 21=118, 20=290.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



November 3,2023

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 Lot 44 Purfoy Place 161794725 J0923-5485 D1 COMMON 6 Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:18:56 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

23-0-0 23-10-8 0-10-8 4-6-0 7-0-0 7-0-0 4-6-0

> Scale = 1:58.3 5x5 =

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

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

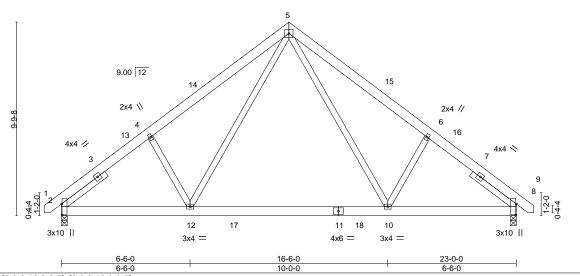


Plate Offsets (X,Y)-- [2:0-6-10,0-0-5], [8:0-6-10,0-0-5]

LOADIN	IG (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) -0.16 10-12	>999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) -0.22 10-12	>999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.02 8	n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03 10-12	>999 240	Weight: 177 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SP No.2 2-9-13, Right 2x4 SP No.2 2-9-13

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=296(LC 9)

Max Uplift 2=-164(LC 12), 8=-164(LC 13)

Max Grav 2=1029(LC 19), 8=1029(LC 20)

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

TOP CHORD $2\text{-}4\text{=-}1332/473,\ 4\text{-}5\text{=-}1328/573,\ 5\text{-}6\text{=-}1328/573,\ 6\text{-}8\text{=-}1332/473}$

BOT CHORD 2-12=-251/1157, 10-12=-24/730, 8-10=-247/946

WEBS 5-10=-208/643, 6-10=-399/338, 5-12=-208/643, 4-12=-399/338

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-12 to 3-8-1, Interior(1) 3-8-1 to 11-6-0, Exterior(2) 11-6-0 to 15-10-13, Interior(1) 15-10-13 to 23-8-12 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.
- * 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) except (jt=lb) 2=164, 8=164.



November 3,2023



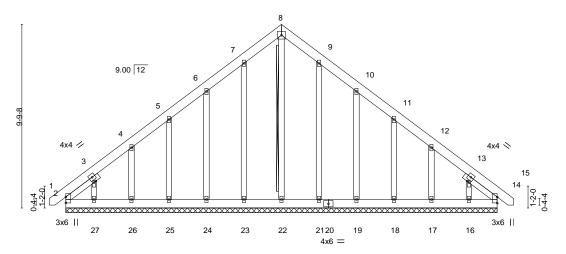
Job Truss Truss Type Qty Lot 44 Purfoy Place Ply 161794726 J0923-5485 D1GE COMMON SUPPORTED GAB Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:18:58 2023 Page 1

Comtech, Inc, Fayetteville, NC - 28314, ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

23-0-0 23-10₇8 0-10-8 0-10-8 11-6-0 11-6-0

5x5 =

Scale = 1:61.4



23-0-0

Plate Off	sets (X,Y)	[28:0-1-2,0-1-0], [29:0-1-2,	,0-1-0]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	14	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	14	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI	2014	Matri	x-S	, ,					Weight: 210 lb	FT = 20%

LUMBER-

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

SLIDER Left 2x4 SP No.2 2-2-2, Right 2x4 SP No.2 2-2-2 BRACING-

TOP CHORD **BOT CHORD WEBS**

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

Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 - 8-22 T-Brace:

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

Brace must cover 90% of web length.

REACTIONS. All bearings 23-0-0.

Max Horz 2=369(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 22, 27, 21, 16, 14 except 2=-141(LC 8), 23=-106(LC 12), 24=-166(LC 12), 25=-110(LC 12), 26=-278(LC 12),

19=-169(LC 13), 18=-113(LC 13), 17=-268(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 23, 24, 25, 27, 21, 19, 18, 16, 14 except 2=276(LC 20), 22=278(LC 13), 26=283(LC 19), 17=271(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-315/257, 6-7=-265/293, 7-8=-325/345, 8-9=-325/345, 9-10=-265/268

BOT CHORD 2-27=-153/271, 26-27=-153/271, 25-26=-153/271, 24-25=-153/271, 23-24=-153/271,

22-23=-153/271, 21-22=-153/271, 19-21=-153/271, 18-19=-153/271, 17-18=-153/271,

16-17=-153/271, 14-16=-153/271

WEBS 8-22=-264/199, 4-26=-322/323, 12-17=-321/311

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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) 22, 27, 21, 16, 14 except (jt=lb) 2=141, 23=106, 24=166, 25=110, 26=278, 19=169, 18=113, 17=268.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

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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)



Job Truss Truss Type Qty Ply Lot 44 Purfoy Place 161794727 J0923-5485 G1 ATTIC Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:18:59 2023 Page 1 ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

10-11-12 13-3-7 16-11-12 2-3-11 2-3-11 3-8-5 4-11-12 3-8-5 4-11-12

> Scale = 1:84.6 6x8 =

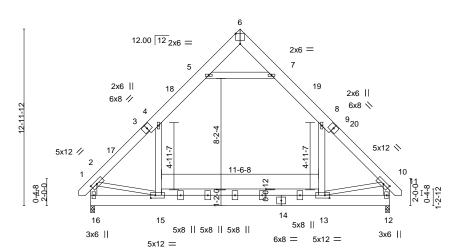
> > Structural wood sheathing directly applied or 6-0-0 oc purlins,

This truss requires both edges of the bottom chord be sheathed in

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

except end verticals.

the room area.



5x8 || 16-11-12 4-11-12 21-11-8 4-11-12 12-0-0 4-11-12 Plate Offsets (X V)-- [2:0-5-4-0-2-8] [6:0-4-0 Edge] [10:0-5-4-0-2-8] [13:0-4-0-0-2-8] [15:0-4-0-0-2-8]

Tiale Offsets (A, I)	Tidle Offsets (X, 1) [2.0-0-4,0-2-0], [0.0-4-0,1-2-0], [10.0-4-0,0-2-0], [10.0-4-0,0-2-0]									
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP						
TCLL 20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) -0.11 13-15 >999 360	MT20 244/190						
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.18 13-15 >999 240							
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) 0.00 12 n/a n/a							
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03 15 >999 240	Weight: 289 lb FT = 20%						

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x10 SP No.1 *Except* TOP CHORD

1-3,9-11: 2x8 SP No.1 **BOT CHORD** 2x10 SP No.1 *Except* 13-15: 2x6 SP No.1

WEBS 2x6 SP No.1 *Except* 2-15,10-13: 2x4 SP No.2

REACTIONS. (size) 16=0-3-8, 12=0-3-8 Max Horz 16=-276(LC 10)

Max Grav 16=1479(LC 21), 12=1479(LC 20)

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

TOP CHORD 2-4=-1619/0, 4-5=-997/157, 5-6=-12/311, 6-7=-12/311, 7-8=-997/157, 8-10=-1619/0,

2-16=-1558/14, 10-12=-1559/14

15-16=-255/504, 13-15=0/1011, 12-13=-41/304 **BOT CHORD**

WEBS 8-13=0/750, 4-15=0/750, 5-7=-1303/212, 2-15=0/808, 10-13=0/814

- 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) -0-7-10 to 3-9-3, Interior(1) 3-9-3 to 10-11-12, Exterior(2) 10-11-12 to 15-4-9, Interior(1) 15-4-9 to 22-7-2 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). 8-13, 4-15 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- 7) Attic room checked for L/360 deflection.



November 3,2023



Job Truss Truss Type Qty Lot 44 Purfoy Place 161794728 J0923-5485 G1GE **GABLE** Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:19:00 2023 Page 1 ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

10-11-12 13-3-7 16-11-12 2-3-11 2-3-11 3-8-5 4-11-12 3-8-5 4-11-12

> Scale = 1:84.6 8x8 =

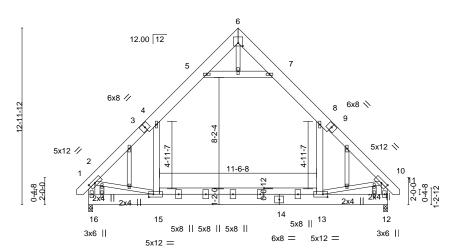
> > Structural wood sheathing directly applied or 6-0-0 oc purlins,

This truss requires both edges of the bottom chord be sheathed in

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

except end verticals.

the room area.



5x8 || 16-11-12 21-11-8 4-11-12 12-0-0 4-11-12

BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y)	Plate Offsets (X,Y) [2:0-5-4,0-2-6], [0:0-4-0,0-2-12], [10:0-5-4,0-2-6], [13:0-4-0,0-2-6], [15:0-4-0,0-2-6]									
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP						
TCLL 20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) -0.11 13-15 >999 360	MT20 244/190						
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.18 13-15 >999 240							
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) 0.00 12 n/a n/a							
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05 13-15 >999 240	Weight: 303 lb FT = 20%						

LUMBER-

NOTES-

TOP CHORD 2x10 SP No.1 *Except* 1-3,9-11: 2x8 SP No.1

BOT CHORD 2x10 SP No.1 *Except* 13-15: 2x6 SP No.1

WEBS 2x6 SP No.1 *Except* 2-15,10-13: 2x4 SP No.2

OTHERS 2x4 SP No.2

REACTIONS. (size) 16=0-3-8, 12=0-3-8

Max Horz 16=-345(LC 10)

Max Grav 16=1474(LC 21), 12=1474(LC 20)

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

TOP CHORD 2-4=-1637/24, 4-5=-1003/190, 5-6=-32/321, 6-7=-32/321, 7-8=-1002/190,

8-10=-1636/23, 2-16=-1569/39, 10-12=-1570/39

BOT CHORD 15-16=-337/562, 13-15=0/1035, 12-13=-83/312

WFBS 8-13=0/750, 4-15=0/750, 5-7=-1294/295, 2-15=-10/844, 10-13=-20/852

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 2x6 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).8-13, 4-15
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- 10) Attic room checked for L/360 deflection.



November 3,2023



Job	Truss	Truss Type	Qty	Ply	Lot 44 Purfoy Place	7
					l61794729	
J0923-5485	G2	ATTIC	3	1		
					Job Reference (optional)	

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:19:02 2023 Page 1 ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

21-11-8 10-11-12 13-3-7 16-11-12 4-11-12 3-8-5 2-3-11 2-3-11 3-8-5 4-11-12

> Scale = 1:84.6 6x8 =

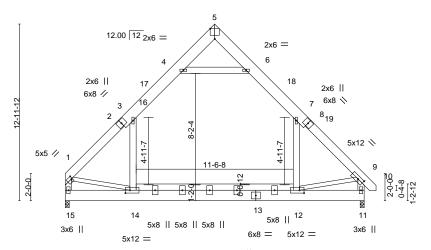
> > Structural wood sheathing directly applied or 6-0-0 oc purlins,

This truss requires both edges of the bottom chord be sheathed in

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

except end verticals.

the room area.



5x8 || 16-11-12 4-11-12 4-11-12 4-11-12

Plate Off	sets (X,Y)	[1:0-0-12,0-2-8], [5:0-4-0),Edge], [9:0-5	5-4,0-2-8], [12:	0-4-0,0-2-8], [14:0-4-0,0-2-8]					
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	0.42	Vert(LL)	-0.11 12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.18 12-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00 11	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-S	Wind(LL)	0.03 12-14	>999	240	Weight: 286 lb	FT = 20%

BOT CHORD

LUMBER-BRACING-

TOP CHORD 2x10 SP No.1 *Except* TOP CHORD

1-2,8-10: 2x8 SP No.1 **BOT CHORD** 2x10 SP No.1 *Except* 12-14: 2x6 SP No.1

WEBS 2x6 SP No.1 *Except* 1-14,9-12: 2x4 SP No.2

REACTIONS. (size) 15=0-3-8, 11=0-3-8

Max Horz 15=-269(LC 10)

Max Grav 15=1445(LC 21), 11=1480(LC 20)

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

TOP CHORD $1\text{-}3\text{--}1608/0,\ 3\text{-}4\text{--}1000/158,\ 4\text{-}5\text{--}11/314,\ 5\text{-}6\text{--}10/316,\ 6\text{-}7\text{--}997/155,\ 7\text{-}9\text{--}1622/0,}$

1-15=-1521/0, 9-11=-1562/13

BOT CHORD 14-15=-246/437, 12-14=0/1012, 11-12=-42/304

WEBS 7-12=0/754, 3-14=0/729, 4-6=-1311/217, 1-14=0/858, 9-12=0/816

- 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) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 10-11-12, Exterior(2) 10-11-12 to 15-4-9, Interior(1) 15-4-9 to 22-7-2 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). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).7-12, 3-14
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14 7) Attic room checked for L/360 deflection.



November 3,2023



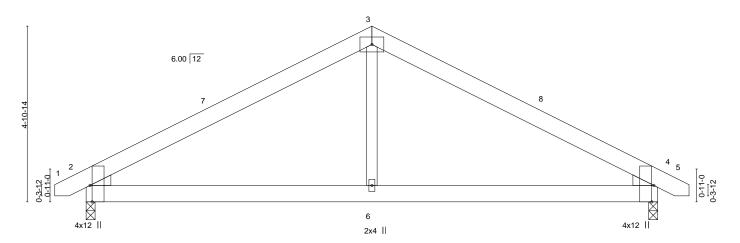
Job Truss Truss Type Qty Lot 44 Purfoy Place 161794730 J0923-5485 H1 COMMON 3 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:19:03 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -0-10-8 0-10-8 16-10-0 7-11-12 7-11-12 0-10-8

> Scale: 3/8"=1 5x8 =

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

Rigid ceiling directly applied or 7-10-12 oc bracing.



[2:0-5-8 Edge] [4:0-5-8 Edge]

Tidle Offsets (X,T)	auto onacta (x, r) [2.0 0 0; Eugo]									
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP						
TCLL 20.0	Plate Grip DOL 1.15	TC 0.50	Vert(LL) 0.08 4-6 >999 240	MT20 244/190						
TCDL 10.0	Lumber DOL 1.15	BC 0.66	Vert(CT) -0.05 4-6 >999 240							
BCLL 0.0 *	Rep Stress Incr YES	WB 0.21	Horz(CT) -0.01 4 n/a n/a							
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 92 lb FT = 20%						

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

Plate Offsets (X V)--

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

WEDGE

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

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

Max Horz 2=78(LC 9)

Max Uplift 2=-253(LC 9), 4=-253(LC 8) Max Grav 2=676(LC 1), 4=676(LC 1)

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

TOP CHORD 2-3=-851/1156, 3-4=-851/1152 **BOT CHORD** 2-6=-863/646, 4-6=-863/646

WEBS 3-6=-680/382

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-2 to 3-8-11, Interior(1) 3-8-11 to 7-11-12, Exterior(2) 7-11-12 to 12-4-9, Interior(1) 12-4-9 to 16-7-10 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=253, 4=253.



November 3,2023



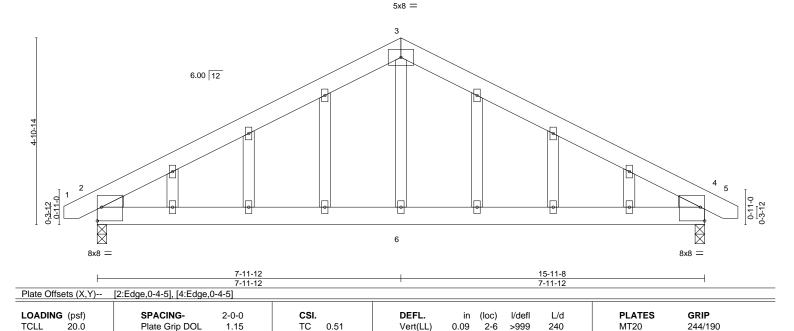
Job Truss Truss Type Qty Lot 44 Purfoy Place 161794731 J0923-5485 H1GE **GABLE** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:19:04 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -0-10-8 0-10-8 16-10-0 7-11-12 7-11-12 0-10-8

Scale = 1:30.3

FT = 20%

Weight: 110 lb



Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.05

-0.01

4-6

4

>999

n/a

240

n/a

Rigid ceiling directly applied or 7-7-7 oc bracing.

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

LUMBER-

TCDL

BCLL

BCDL

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

10.0

0.0

10.0

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

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

Max Horz 2=117(LC 12) Max Uplift 2=-307(LC 9), 4=-307(LC 8) Max Grav 2=676(LC 1), 4=676(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

1.15

YES

BC

WB

Matrix-S

0.68

0.21

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

TOP CHORD 2-3=-851/1239, 3-4=-851/1239 **BOT CHORD** 2-6=-924/646, 4-6=-924/646

WEBS 3-6=-692/382

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=307, 4=307.

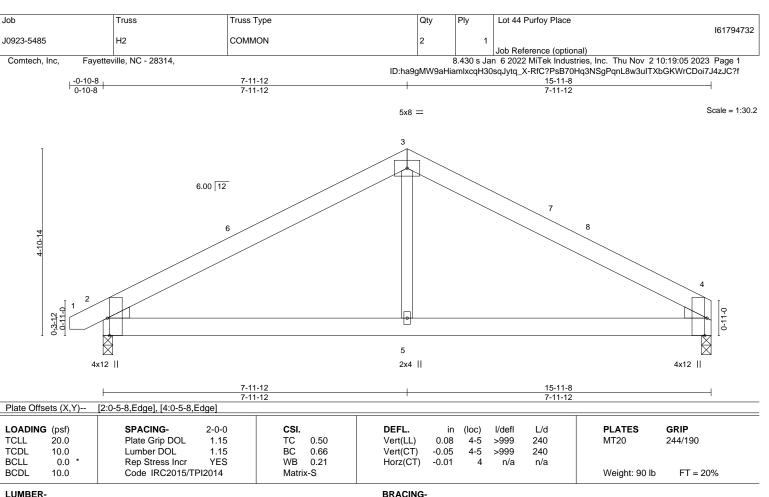


November 3,2023

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/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

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

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

Max Horz 2=-80(LC 8)

Max Uplift 2=-254(LC 9), 4=-245(LC 8) Max Grav 2=678(LC 1), 4=627(LC 1)

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

TOP CHORD 2-3=-853/1157, 3-4=-851/1165 **BOT CHORD** 2-5=-861/648, 4-5=-861/648

WEBS 3-5=-681/383

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-2 to 3-8-11, Interior(1) 3-8-11 to 7-11-12, Exterior(2) 7-11-12 to 12-4-9, Interior(1) 12-4-9 to 15-10-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=254, 4=245.



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

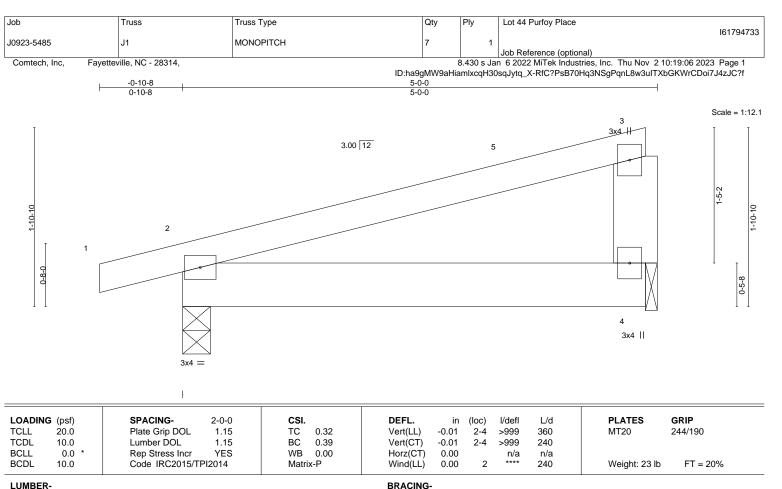
Rigid ceiling directly applied or 7-11-0 oc bracing.



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

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

BOT CHORD WEBS 2x6 SP No.1

REACTIONS.

2=0-3-8, 4=0-1-8 (size) Max Horz 2=62(LC 12)

Max Uplift 2=-94(LC 8), 4=-53(LC 12) Max Grav 2=253(LC 1), 4=178(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 4-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



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

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

except end verticals.



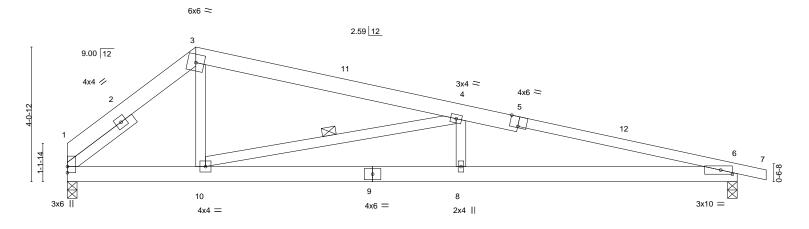
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lot 44 Purfoy Place 161794734 J0923-5485 K1 **ROOF SPECIAL** 6 Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:19:08 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 21-1-0 0-10-8 11-10-8 20-2-8 3-10-8 8-0-0 8-4-0

Scale = 1:34.8



F		3-10-8 3-10-8		11-1 8-0			-				20-2-8 8-4-0	
Plate Offse	ets (X,Y)	[5:0-3-0,Edge], [6:0-4-4	l,0-1-8]		-							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.10	8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.20	6-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code IRC2015/	TPI2014	Matrix	-S	Wind(LL)	0.10	6-8	>999	240	Weight: 116 lb	FT = 20%

BRACING-

WEBS

TOP CHORD **BOT CHORD**

LUMBER-

2x6 SP No.1 *Except* TOP CHORD

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

BOT CHORD 2x4 SP No.2 WEBS

SLIDER Left 2x4 SP No.2 2-5-15

REACTIONS. (size) 1=0-3-8, 6=0-3-8

Max Horz 1=-113(LC 10)

Max Uplift 1=-152(LC 9), 6=-240(LC 9) Max Grav 1=801(LC 1), 6=865(LC 1)

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

TOP CHORD 1-3=-1084/456, 3-4=-851/403, 4-6=-2331/886 **BOT CHORD** 1-10=-239/760, 8-10=-801/2219, 6-8=-801/2219 3-10=-69/516, 4-10=-1492/575, 4-8=0/341 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 8-3-5, Interior(1) 8-3-5 to 21-1-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=152, 6=240.



Structural wood sheathing directly applied or 3-7-1 oc purlins.

4-10

Rigid ceiling directly applied or 8-8-13 oc bracing.

1 Row at midpt

November 3,2023

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

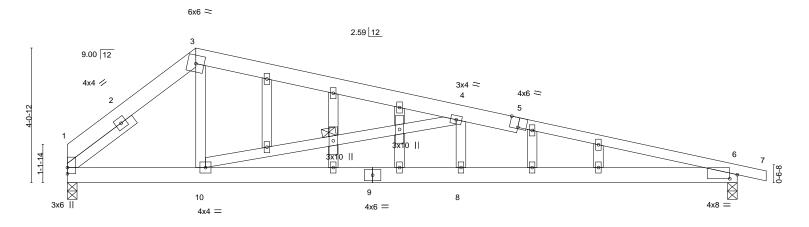
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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 Lot 44 Purfoy Place 161794735 J0923-5485 K1GE **GABLE** 2 Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:19:09 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 21-1-0 0-10-8 11-10-8 20-2-8 3-10-8 8-0-0 8-4-0

Scale = 1:34.8



		3-10-8)-0		-				B-4-0	
Plate Offs	sets (X,Y)	[5:0-3-0,Edge], [6:0-2-12	2,0-1-8]									
LOADING	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	0.42	Vert(LL)	-0.10	8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.20	6-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matrix	<-S	Wind(LL)	0.15	6-8	>999	240	Weight: 127 lb	FT = 20%

BRACING-

WEBS

TOP CHORD **BOT CHORD**

11_10_0

LUMBER-

2x6 SP No.1 *Except* TOP CHORD

5-7: 2x4 SP No.1

2_10_9

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

OTHERS 2x4 SP No.2

Left 2x4 SP No.2 2-5-15 **SLIDER**

REACTIONS. (size) 1=0-3-8, 6=0-3-8

Max Horz 1=-157(LC 8)

Max Uplift 1=-298(LC 13), 6=-440(LC 9)

Max Grav 1=801(LC 1), 6=865(LC 1)

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

TOP CHORD 1-3=-1084/563, 3-4=-851/488, 4-6=-2331/1302 **BOT CHORD** 1-10=-267/760, 8-10=-1184/2219, 6-8=-1184/2219 WEBS 3-10=-156/516, 4-10=-1492/937, 4-8=0/341

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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.
- 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) except (jt=lb) 1=298, 6=440.



Structural wood sheathing directly applied or 3-7-1 oc purlins.

4-10

Rigid ceiling directly applied or 7-1-11 oc bracing.

1 Row at midpt

November 3,2023



Job Truss Truss Type Qty Lot 44 Purfoy Place 161794736 J0923-5485 V1GE VALLEY Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:19:10 2023 Page 1

ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 10-3-13 10-3-13

> Scale = 1:62.5 4x4 =

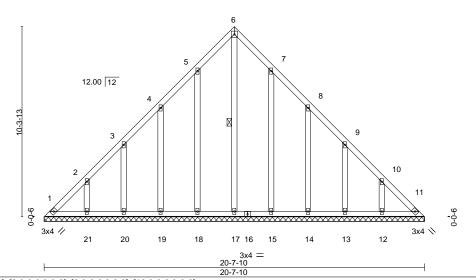


Plate Offsets (X,Y)--[7:0-0-0,0-0-0], [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0]LOADING (psf) SPACING-DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.08 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.06 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.25 Horz(CT) 0.01 11 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 FT = 20%Matrix-S Weight: 144 lb

LUMBER-

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

TOP CHORD **BOT CHORD WEBS**

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

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

6-17 1 Row at midpt

REACTIONS. All bearings 20-7-10.

Max Horz 1=-398(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 17 except 1=-172(LC 10), 11=-106(LC 11), 18=-197(LC 12),

19=-209(LC 12), 20=-194(LC 12), 21=-225(LC 12), 15=-192(LC 13), 14=-210(LC 13), 13=-194(LC 13),

12=-226(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 18, 19, 20, 21, 15, 14, 13, 12 except 1=339(LC 12), 11=294(LC 13), 17=337(LC 13)

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

TOP CHORD $1-2=-521/326,\ 2-3=-334/256,\ 5-6=-279/308,\ 6-7=-279/308,\ 9-10=-270/161,$

10-11=-457/310

1-21=-249/372, 20-21=-249/372, 19-20=-249/372, 18-19=-249/372, 17-18=-249/372, **BOT CHORD**

15-17=-249/372, 14-15=-249/372, 13-14=-249/372, 12-13=-249/372, 11-12=-249/372

WEBS 6-17=-323/234, 2-21=-254/240, 10-12=-254/241

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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.
- * 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) 17 except (jt=lb) 1=172, 11=106, 18=197, 19=209, 20=194, 21=225, 15=192, 14=210, 13=194, 12=226.



November 3,2023



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 Lot 44 Purfoy Place 161794737 J0923-5485 V2 VALLEY Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:19:12 2023 Page 1 ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

9-9-11 9-9-12

> Scale = 1:59.4 4x4 =

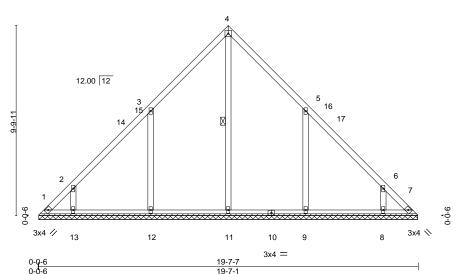


Plate Offsets (X,Y)-- [5:0-0-1,0-0-0], [6:0-0-1,0-0-0]

		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
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 0.21	Vert(LL) n/a - n/a 999	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) n/a - n/a 999	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.26	Horz(CT) 0.01 7 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 102 lb FT = 20%

LUMBER-

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

TOP CHORD **BOT CHORD WEBS**

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

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

1 Row at midpt 4-11

REACTIONS. All bearings 19-6-11.

(lb) -Max Horz 1=302(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-171(LC 10), 7=-122(LC 11), 12=-280(LC 12),

13=-202(LC 12), 9=-279(LC 13), 8=-202(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=450(LC 22), 12=524(LC 19), 13=303(LC 19),

9=523(LC 20), 8=304(LC 20)

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

TOP CHORD 1-2=-351/299, 3-4=-280/267, 4-5=-280/267, 6-7=-340/299 **WEBS** 3-12=-512/429, 2-13=-387/357, 5-9=-512/429, 6-8=-387/357

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 9-9-11, Exterior(2) 9-9-11 to 14-2-8, Interior(1) 14-2-8 to 19-3-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 1, 122 lb uplift at joint 7, 280 lb uplift at joint 12, 202 lb uplift at joint 13, 279 lb uplift at joint 9 and 202 lb uplift at joint 8.

7) N/A



November 3,2023



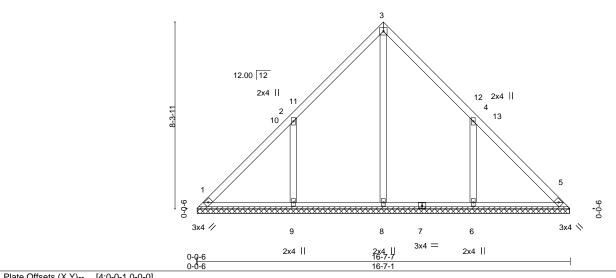
Job Truss Truss Type Qty Ply Lot 44 Purfoy Place 161794738 J0923-5485 V3 VALLEY Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:19:13 2023 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 16-7-7 8-3-11 8-3-12

4x4 =

Scale = 1:51.2



i late Oliset	= Oilsets (X,1) [4.0-0-1,0-0-0]												
LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 2	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	` -	n/a	999	MT20	244/190	
TCDL 1	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	5	n/a	n/a			
BCDL 1	10.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 81 lb	FT = 20%	

LUMBER-

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

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. All bearings 16-6-10.

Max Horz 1=-254(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-302(LC 12), 6=-302(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=427(LC 22), 9=555(LC 19), 6=555(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-9=-541/449, 4-6=-541/448

WEBS NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 8-3-11, Exterior(2) 8-3-11 to 12-8-8, Interior(1) 12-8-8 to 16-3-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=302, 6=302.
- 6) N/A



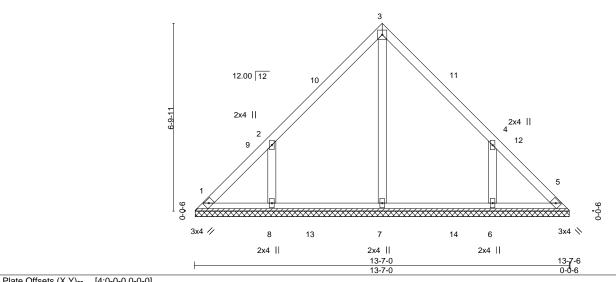


Job Truss Truss Type Qty Ply Lot 44 Purfoy Place 161794739 J0923-5485 V4 VALLEY

Comtech, Inc, Fayetteville, NC - 28314, Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:19:14 2023 Page 1

ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 6-9-11 6-9-11

> Scale = 1:41.8 4x4 =



Tidle Offsets (X,T)	[4.0 0 0,0 0 0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL) n/a - n/a 999	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00 5 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 63 lb FT = 20%

LUMBER-

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

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. All bearings 13-6-10.

Max Horz 1=-206(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-251(LC 12), 6=-251(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=401(LC 19), 8=422(LC 19), 6=421(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-8=-459/404, 4-6=-459/404 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 6-9-11, Exterior(2) 6-9-11 to 11-2-8, Interior(1) 11-2-8 to 13-3-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=251, 6=251,





Job Truss Truss Type Qty Lot 44 Purfoy Place 161794740 J0923-5485 V5 VALLEY Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:19:15 2023 Page 1

Comtech, Inc, Fayetteville, NC - 28314, ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

5-3-11 5-3-11 5-3-12

> Scale = 1:33.7 4x4 =

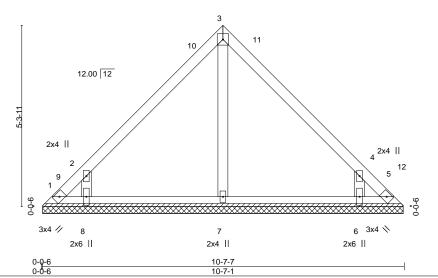


Plate Offsets (X,Y)--[4:0-0-1,0-0-0] SPACING-**PLATES** LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.20 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.09 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.08 0.00 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Weight: 46 lb Matrix-S

LUMBER-**BRACING-**

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

REACTIONS. All bearings 10-6-11.

(lb) -Max Horz 1=-158(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-157(LC 10), 5=-131(LC 11), 8=-264(LC 12), 6=-264(LC

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=399(LC 19), 6=398(LC 20)

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

WEBS 2-8=-504/473, 4-6=-504/472

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 5-3-11, Exterior(2) 5-3-11 to 9-8-8, Interior(1) 9-8-8 to 10-3-3 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 157 lb uplift at joint 1, 131 lb uplift at joint 5, 264 lb uplift at joint 8 and 264 lb uplift at joint 6.
- 6) N/A





Job Truss Truss Type Qty Ply Lot 44 Purfoy Place 161794741 J0923-5485 V₆ VALLEY Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:19:16 2023 Page 1 ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 3-9-11 3-9-12 Scale = 1:26.1 4x4 = 2 12.00 12 3 9-0-0 9-0-0 3x4 📏 3x4 / 2x4 || LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 TC 999 244/190 **TCLL** 0.25 Vert(LL) n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-P Weight: 31 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

1=7-6-11, 3=7-6-11, 4=7-6-11 (size) Max Horz 1=-110(LC 10) Max Uplift 1=-55(LC 13), 3=-55(LC 13)

Max Grav 1=168(LC 1), 3=168(LC 1), 4=216(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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 55 lb uplift at joint 1 and 55 lb uplift at joint 3.
- 6) N/A



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

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



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

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

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lot 44 Purfoy Place 161794742 J0923-5485 V7 VALLEY Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:19:17 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 2-3-11 2-3-11 2-3-11 ₂4x4 = Scale = 1:14.3 12.00 12 9-0-0 9-0-0 3x4 // 2x4 || 3x4 📏 4-7-0 4-7-6 0-0-6 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 TC Vert(LL) 999 244/190 **TCLL** 0.08 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.01 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-P Weight: 18 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

1=4-6-10, 3=4-6-10, 4=4-6-10 (size) Max Horz 1=-62(LC 8) Max Uplift 1=-31(LC 13), 3=-31(LC 13) Max Grav 1=95(LC 1), 3=95(LC 1), 4=122(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 1 and 31 lb uplift at joint 3.



Structural wood sheathing directly applied or 4-7-6 oc purlins.

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



Job Truss Truss Type Qty Lot 44 Purfoy Place 161794743 J0923-5485 VH1 VALLEY Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Nov 2 10:19:19 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:ha9gMW9aHiamlxcqH30sqJytq_X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 7-4-11 7-4-10 Scale = 1:25.2 4x4 = 3 6.00 12 10 2x4 || 2x4 || 2 12 3x4 > 3x4 / 2x4 || 2x4 || 2x4 | 14₋9-5 0-0-12 14-8-9 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 20.0 Plate Grip DOL 1.15 Vert(LL) 999 244/190 **TCLL** TC 0.13 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 5 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

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

10.0

REACTIONS. All bearings 14-7-13.

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-128(LC 12), 6=-128(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=280(LC 1), 8=321(LC 23), 6=321(LC 24)

Matrix-S

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

Code IRC2015/TPI2014

2-8=-245/282, 4-6=-245/282 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 7-4-11, Exterior(2) 7-4-11 to 11-9-7, Interior(1) 11-9-7 to 14-1-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=128, 6=128,



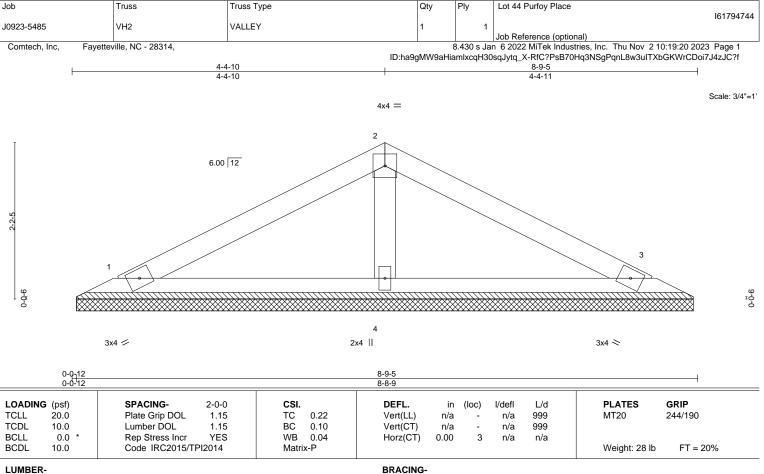
Weight: 52 lb

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

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

FT = 20%





TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

REACTIONS. 1=8-7-13, 3=8-7-13, 4=8-7-13 (size)

Max Horz 1=-33(LC 10)

Max Uplift 1=-46(LC 12), 3=-52(LC 13), 4=-15(LC 12)

Max Grav 1=152(LC 1), 3=152(LC 1), 4=293(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



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

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



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

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

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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



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



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

₹

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

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

PLATE SIZE

4 × 4

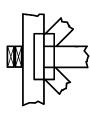
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

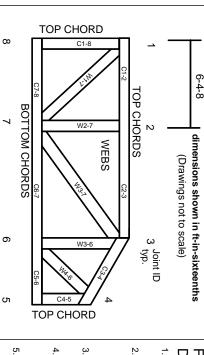
Industry Standards: ANSI/TPI1: National I

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

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

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

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

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MiTek



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

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- 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.

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



Glover Newport Newport Date: 7/29/2022

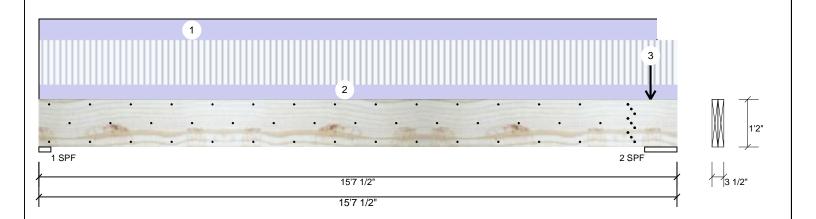
Input by: Christine Shivy Job Name: Newport

Project #:

1.750" X 14.000" **Kerto-S LVL** BM₁

2-Ply - PASSED

Level: Level



Member Infor	mation			Rea	ctions UNP	ATTERN	IED lb (Uplift)			
Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	Const
Plies:	2	Design Method:	ASD	1	Vertical	2087	1723	0	0	0
Moisture Conditio	n: Dry	Building Code:	IBC/IRC 2015	2	Vertical	5663	2921	0	0	0
Deflection LL:	480	Load Sharing:	No							
Deflection TL:	360	Deck:	Not Checked							
Importance:	Normal - II									
Temperature:	Temp <= 100°F									
				Bear	rings					
				Bea	aring Length	Dir.	Cap. React D/L II	o Total	Ld. Case	Ld. Comb.
				1 -	SPF 3.500"	Vert	73% 1723 / 208	7 3811	L	D+L
				2 -	SPF 9.500"	Vert	61% 2921 / 566	3 8584	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	13549 ft-lb	7'6 3/4"	26999 ft-lb	0.502 (50%)	D+L	L
Unbraced	13549 ft-lb	7'6 3/4"	13579 ft-lb	0.998 (100%)	D+L	L
Shear	3518 lb	13'8"	10453 lb	0.337 (34%)	D+L	L
LL Defl inch	0.197 (L/894)	7'6 13/16"	0.367 (L/480)	0.537 (54%)	L	L
TL Defl inch	0.360 (L/489)	7'6 13/16"	0.489 (L/360)	0.736 (74%)	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 Concentrated load fastener specification is in addition to hanger fasteners if a hanger is
- 5 Simpson fasteners applied from a single side of the member use tip values where published.
- 6 Girders are designed to be supported on the bottom edge only.
- 7 Top loads must be supported equally by all plies.
- 8 Top must be laterally braced at a maximum of 7'6 1/16" o.c.
- 9 Bottom must be laterally braced at end bearings.
- 10 Lateral slenderness ratio based on single ply width.

Notes

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

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

Handling & Installation

- LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

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

Manufacturer Info

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



Page 1 of 2

This design is valid until 11/3/2024





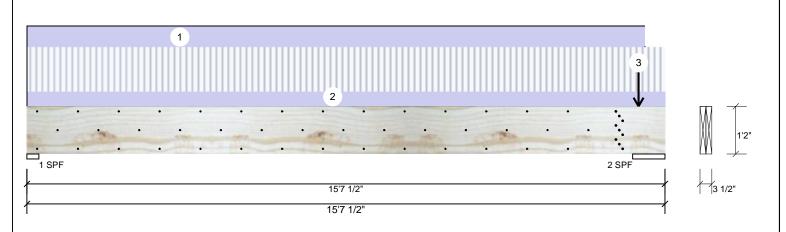
Glover Newport Newport Date: 7/29/2022 Input by: Christine Shivy

Job Name: Newport

Project #:

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

Level: Level



ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Part. Uniform	0-0-0 to 15-1-8		Тор	125 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Exterior Wall	
2	Uniform			Near Face	92 PLF	276 PLF	0 PLF	0 PLF	0 PLF	F2	
3	Point	14-11-12		Near Face	1146 lb	3438 lb	0 lb	0 lb	0 lb	BM3	
	Self Weight				11 PLF						

Notes

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

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

Handling & Installation

- Handling & Installation

 1. IVI beams must not be out or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering 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

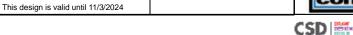
Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

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Page 2 of 2





Glover Newport Newport Date: 7/29/2022

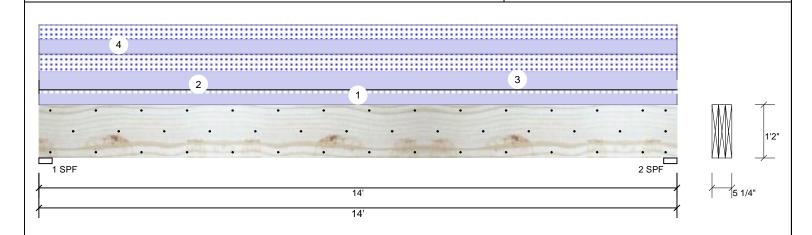
Input by: Christine Shivy Job Name: Newport

Page 1 of 1

Project #:

1.750" X 14.000" 3-Ply - PASSED **Kerto-S LVL** BM₂

Level: Level



Member Inforn	nation			Read	tions UNP	ATTERNEI	D lb (Uplift)			
Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	Const
Plies:	3	Design Method:	ASD	1	Vertical	280	3670	2576	0	0
Moisture Condition:	: Dry	Building Code:	IBC/IRC 2015	2	Vertical	280	3670	2576	0	0
Deflection LL:	480	Load Sharing:	Yes							
Deflection TL:	360	Deck:	Not Checked							
Importance:	Normal - II									
Temperature:	Temp <= 100°F			-						
				Bear	ings					
				Bea	aring Length	Dir. C	ap. React D/L lb	Total	Ld. Case	Ld. Comb.
				1 -	SPF 3.500"	Vert 8	0% 3670 / 2576	6246	L	D+S
				2 -	SPF 3.500"	Vert 8	0% 3670 / 2576	6246	L	D+S

Analysis Results

ш	•						
ſ	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
l	Moment	20454 ft-lb	7'	48437 ft-lb	0.422 (42%)	D+S	L
	Unbraced	20454 ft-lb	7'	20467 ft-lb	0.999 (100%)	D+S	L
l	Shear	5376 lb	12'6 1/2"	18032 lb	0.298 (30%)	D+S	L
l	LL Defl inch	0.129 (L/1258)	7' 1/16"	0.339 (L/480)	0.382 (38%)	S	L
l	TL Defl inch	0.313 (L/519)	7' 1/16"	0.451 (L/360)	0.694 (69%)	D+S	L

Design Notes

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

8 Lateral slend	erness 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	125 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Load
2	Uniform			Far Face	15 PLF	40 PLF	0 PLF	0 PLF	0 PLF	Floor Load
3	Uniform			Тор	199 PLF	0 PLF	199 PLF	0 PLF	0 PLF	E1
4	Uniform			Near Face	169 PLF	0 PLF	169 PLF	0 PLF	0 PLF	A4
	Self Weight				16 PLF					

Notes

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

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- I. 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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This design is valid until 11/3/2024 CSD |

Manufacturer Info



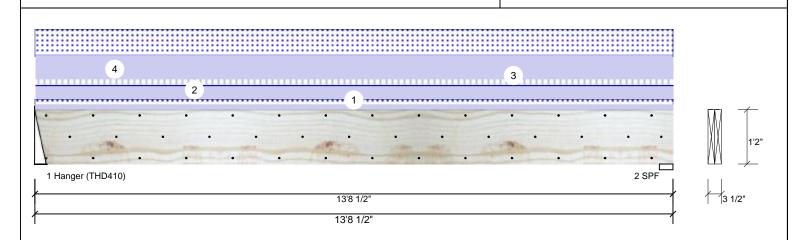
Glover Newport Newport Date: 7/29/2022

Input by: Christine Shivy Job Name: Newport

Project #:

1.750" X 14.000" 2-Ply - PASSED **Kerto-S LVL** BM3

Level: Level



Member Infor	mation			Read	ctions	s UNPA	ATTERN	ED I	o (Uplift)			
Type:	Girder	Application:	Floor	Brg	Direc	ction	Live		Dead	Snow	Wind	Const
Plies:	2	Design Method:	ASD	1	Vertic	cal	273		2808	1777	0	0
Moisture Condition	n: Dry	Building Code:	IBC/IRC 2015	2	Vertic	cal	275		2825	1788	0	0
Deflection LL:	480	Load Sharing:	No									
Deflection TL:	360	Deck:	Not Checked									
Importance:	Normal - II											
Temperature:	Temp <= 100°F											
				Bear	rings							
				Bea	aring l	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
				1 -	;	3.000"	Vert	52%	2808 / 1777	4584	L	D+S
				Har	nger							
Analysis Resul	ts			2 -	SPF :	3.500"	Vert	89%	2825 / 1788	4612	L	D+S

	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
	Moment	14816 ft-lb	6'10"	31049 ft-lb	0.477 (48%)	D+S	L
	Unbraced	14816 ft-lb	6'10"	14824 ft-lb	0.999 (100%)	D+S	L
	Shear	3769 lb	1'5"	12021 lb	0.314 (31%)	D+S	L
	LL Defl inch	0.128 (L/1250)	6'10"	0.332 (L/480)	0.384 (38%)	S	L
	TL Defl inch	0.329 (L/485)	6'10"	0.443 (L/360)	0.743 (74%)	D+S	L
_							

Design Notes

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

		F.,								
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Far Face	45 PLF	0 PLF	45 PLF	0 PLF	0 PLF	M1
2	Uniform			Тор	125 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Exterior Wall
3	Uniform			Far Face	15 PLF	40 PLF	0 PLF	0 PLF	0 PLF	Floor Load
4	Uniform			Тор	215 PLF	0 PLF	215 PLF	0 PLF	0 PLF	E1
	Self Weight				11 PLF					

Notes

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

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

 1. UVI beams must not be out or drilled

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

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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Manufacturer Info

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Page 1 of 1





Glover Newport Newport Date: 7/29/2022

Input by: Christine Shivy Job Name: Newport

Project #:

1.750" X 24.000" **Kerto-S LVL** BM4

2-Ply - PASSED

Level: Level





Page 1 of 2

vlember Inf	ormation						React	ion	s UNPA	ATTERN	IED II	o (Uplift)			
Type:	Girder		Applicat	tion: F	loor		Brg I	Dire	ction	Live		Dead	Snow	Wind	Cons
Plies:	2		Design I	Method: A	SD		1 1	Vertic	cal	3963		1464	0	0	(
Moisture Cond	ition: Dry		Building	Code: IE	BC/IRC 2015		2 \	Vertic	cal	1285		471	0	0	(
Deflection LL:	480		Load Sh	naring: N	lo										
Deflection TL:	360		Deck:	N	lot Checked										
Importance:	Normal - II														
Temperature:	Temp <= 10	JU*F					Bearir Beari		Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
Analysis Re	sults						1 - SF End Grain		3.500"	Vert	53%	1464 / 3963	5428	L	D+L
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	2 - SF	PF	3.500"	Vert	17%	471 / 1285	1756	L	D+L
Moment	2627 ft-lb	8 1/2"	73185 ft-lb	0.036 (4%)	D+L	L	End Grain	1							
Unbraced	2627 ft-lb	8 1/2"	57918 ft-lb	0.045 (5%)	D+L	L									
Shear	1148 lb	11 1/2"	17920 lb	0.064 (6%)	D+L	1									

Design Notes

LL Defl inch

0.003

(L/11939) TL Defl inch 0.004 (L/8816)

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.

8 1/2" 0.070 (L/480) 0.040 (4%) L

8 1/2" 0.094 (L/360) 0.041 (4%) D+L

- 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.

L	0 20000	onnoce ratio bacca en emigio	pij maan									
I	ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
	1	Point	0-6-0		Тор	125 lb	0 lb	0 lb	0 lb	0 lb	Wall Load	
		Bearing Length	0-3-8									
	2	Point	0-8-8		Тор	1562 lb	4685 lb	0 lb	0 lb	0 lb	BM2	
l		Bearing Length	0-3-8									

Continued on page 2...

Notes

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

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

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

This design is valid until 11/3/2024

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

Manufacturer Info

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







Glover Newport Newport Date: 7/29/2022 Input by:

Christine Shivy Job Name: Newport

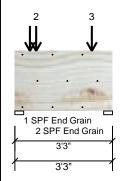
Project #:

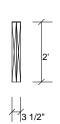
Kerto-S LVL BM4

1.750" X 24.000"

2-Ply - PASSED

Level: Level





Page 2 of 2

Continued fro	m page 1										
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
3	Point	2-6-12		Тор	188 lb	563 lb	0 lb	0 lb	0 lb	F1	
	Bearing Length	0-3-8									
	Self Weight				19 PLF						

Notes

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

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

Handling & Installation

- Handling & Installation

 1. IVI beams must not be out or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering 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

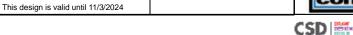
6. For flat roofs provide proper drainage to prevent ponding

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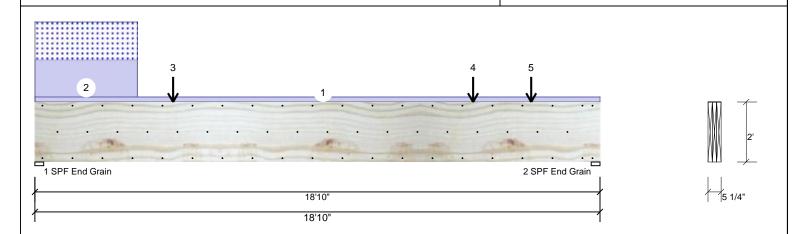
Glover Newport Newport Date: 7/29/2022

Input by: Christine Shivy Job Name: Newport

Project #:

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

Level: Level



Member Infor	mation				Reac	tions UNP	ATTER	NED I	b (Uplift)	•		
Type:	Girder	Application:	Floor		Brg	Direction	Live	Э	Dead	Snow	Wind	Cons
Plies:	3	Design Method:	ASD		1	Vertical	()	7106	6277	0	(
Moisture Condition	n: Dry	Building Code:	IBC/IRC 2015		2	Vertical	()	7033	6204	0	(
Deflection LL:	480	Load Sharing:	Yes									
Deflection TL:	360	Deck:	Not Checked									
Importance:	Normal - II											
Temperature:	Temp <= 100°F											
					Bear	ings						
					Bea	ring Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
					1 - S End	SPF 3.500"	Vert	87%	7106 / 6277	13383	L	D+S
Analysis Resul	ts				Gra							
Analysis Ad	ctual Location	Allowed Capac	city Comb.	Case	2-5		Vert	86%	7033 / 6204	13236	L	D+S
Moment 48	3572 ft-lb 7'11 1/16"	•	37%) D+S	L	End Gra							

Anaiysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	48572 ft-lb	7'11 1/16"	131295 ft-lb	0.370 (37%)	D+S	L
Unbraced	48572 ft-lb	7'11 1/16"	48751 ft-lb	0.996 (100%)	D+S	L
Shear	13091 lb	16'6 1/2"	30912 lb	0.423 (42%)	D+S	L
LL Defl inch	0.147 (L/1501)	9'4 11/16"	0.460 (L/480)	0.320 (32%)	S	L
TL Defl inch	0.316 (L/698)	9'4 13/16"	0.613 (L/360)	0.516 (52%)	D+S	L

Design Notes

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

8 Lateral sien	derness 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	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Exterior Load	
2	Part. Uniform	0-0-0 to 3-5-0		Тор	490 PLF	0 PLF	490 PLF	0 PLF	0 PLF	B1	
3	Point	4-7-4		Тор	4669 lb	0 lb	4669 lb	0 lb	0 lb	B2	
	Bearing Length	0-3-8									

Continued on page 2...

Notes

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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 out or drilled

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

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

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

For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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

Manufacturer Info

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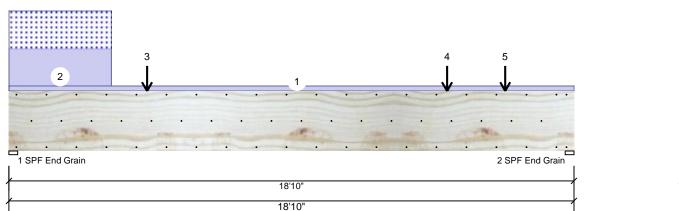
Glover Newport Newport Date: 7/29/2022

Input by: Christine Shivy Job Name: Newport

Project #:

1.750" X 24.000" **Kerto-S LVL GDH**

3-Ply - PASSED Level: Level





Page 2 of 2

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
4	Point	14-7-4		Тор	4669 lb	0 lb	4669 lb	0 lb	0 lb	B2
	Bearing Length	0-3-8								
5	Point	16-6-8		Тор	1469 lb	0 lb	1469 lb	0 lb	0 lb	B3
	Bearing Length	0-3-8								
	Self Weight				28 PLF					

Notes

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

- Dry service conditions, unless noted otherwise
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Handling & Installation

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